PAJARO VALLEY WATER MANAGEMENT AGENCY

36 BRENNAN STREET • WATSONVILLE, CA. 95076
TEL: 831) 722-9292 FAX: 831) 722-3139
email: info@pvwater.org • https://www.pvwater.org

ADMINISTRATION & FINANCE COMMITTEE MEETING
PV Water, 36 Brennan Street, Watsonville
Tuesday, July 9, 2024, 3:00 p.m.

MEETING AGENDA

1. Call to Order and Roll Call:
   Committee members: Bob Culbertson (Chair), Abel Sanchez (Vice Chair), Amy Newell

2. Director Comments

3. Public Comments
   This time is set aside for members of the general public to address the Committee on any item not on the agenda, and that is within the subject matter jurisdiction of the Committee. Each speaker is allotted up to 3 minutes.

4. Consider Approval of June 11, 2024, Administration & Finance Committee Meeting Minutes
   i. Introduction by staff
   ii. Questions from Committee
   iii. Public comment
   iv. Committee discussion and deliberation
   v. Committee action

5. Consider Proposed Operations Department Organization Chart Changes
   i. Introduction by staff
   ii. Questions from Committee
   iii. Public comment
   iv. Committee discussion and deliberation
   v. Committee action

6. Consider College Lake Integrated Resources Management Project Water Quality Monitoring Instrumentation & Installation Project with YSI Inc., in an Amount Not to Exceed $123,746
   i. Introduction by staff
   ii. Questions from Committee
   iii. Public comment
   iv. Committee discussion and deliberation
   vi. Committee action

7. Consider Accepting Quarterly Billing Report
   i. Introduction by staff
   ii. Questions from Committee

PV Water is a state-chartered local Agency formed "to efficiently and economically manage existing and supplemental water supplies in order to prevent further increase in, and to accomplish continuing reduction of, long-term overdraft and to provide and insure sufficient water supplies for present and anticipated needs within the boundaries of the Agency. It is anticipated that long-term overdraft problems may not be solved unless supplemental water supplies are provided. The water management Agency should, in an efficient and economically feasible manner, utilize supplemental water and available underground storage and should manage the groundwater supplies to meet the future needs of the basin." This agenda is subject to revision and may be amended prior to the scheduled meeting. If amended, a Final Agenda will be posted at the PV Water offices at 36 Brennan Street, Watsonville, 72 hours prior to the meeting. Copies of the Final Agenda will be available at the Board Meeting. This Agenda shall be made available upon request in alternative formats to persons with a disability, as required by the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132) and the Ralph M. Brown Act (Cal. Govt. Code Sec. 54954.2). Persons requesting a disability-related modification or accommodation should contact PV Water at (831) 722-9292 during regular business hours, at least 24 hours prior to the time of the meeting.

iii. Public comment
iv. Committee discussion and deliberation
v. Committee action

8. Consider Accepting Financial Reports
    a. Activity Report
    b. Investment Report
        i. Introduction by staff
        ii. Questions from Committee
        iii. Public comment
        iv. Committee discussion and deliberation
        v. Committee action

9. Consider Accepting Cash Flow Reports
    a. A/R Aging Update
    b. A/P Report
        i. Introduction by staff
        ii. Questions from Committee
        iii. Public comment
        iv. Committee discussion and deliberation
        v. Committee action

10. Discuss future agenda items and next meeting date – Tuesday, August 13, 2024, 3:00 p.m.

Adjournment

Remote Access for Meeting

Join the Administration & Finance Committee meeting from your computer, tablet or smartphone.
https://www.gotomeet.me/PVWater/pv-water-administration-finance-committee

You can also dial in using your phone.
United States (Toll Free): 1 877 309 2073
Access Code: 392-853-285

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ADMINISTRATION & FINANCE COMMITTEE MEETING MINUTES of Tuesday, June 11, 2024, 3:00 p.m. PV Water, 36 Brennan Street, Watsonville

Chair Culbertson called the meeting to order at 3:03 p.m.

1. **Roll Call of Committee Members**:

   Committee Members Present: Bob Culbertson (Chair), Abel Sanchez (Vice Chair), Amy Newell
   Staff Present: Brian Lockwood, General Manager (GM), Nancy Trevino (FASM), Priscilla Sanchez (FA)
   Others Present: Robert Rodoni

2. **Director Comments:** None

3. **Public Comments:** None

4. **Consider Approving Minutes of May 7, 2024, Committee Meeting:**
   Action: Director Newell moved to approve the May 7, 2024, meeting minutes; seconded by Director Sanchez.

   The motion carried following vote:

   Ayes: **Culbertson, Sanchez, Newell**
   Noes: **None**
   Abstain: **None**
   Absent: **None**

5. **Consider Agreement with Montgomery & Associates for Construction Management Services at Blend Well 4 and Domestic Well in an Amount Not to Exceed $166,020**
   GM Lockwood explained the Agency, as part of the CLP project, will drill 2 wells near the field office at 76 Holohan Rd. One will a new supplemental water well and the other a smaller domestic well that will provide water to the field office, the water treatment plant, and rental home in the event of an emergency. Montgomery & Associates has the expertise to partner with Agency to provide construction management support for the well drilling project. Mr. Rodoni asked why the Agency isn't tapping into City of Watsonville water, due to its reliability. GM Lockwood responded that this solution had been evaluated and ruled out for reasons including but

not limited to the fact that the 76 Holohan Rd. property is outside of the City of Watsonville's limit and as a result, the City's pipeline's do not extend to the site.

Action: Director Newell moved to recommend the Board approve the agreement with Montgomery & Associates for construction management services at Blend Well 4 and domestic well in an amount not to exceed $166,020; seconded by Director Sanchez.

The motion carried following vote:

Ayes: **Sanchez, Newell**
Noes: **Culbertson**
Abstain: **None**
Absent: **None**

6. **Consider the Cash Reserve Policy**
GM Lockwood explained how the rate stabilization fund is shown to increase gradually by $100K per year over five years to reach the desired amount. FASM explained that the Committee may choose to keep the reserve unchanged, however, the Agency re-calculates the entire reserve and all components therein annually. Director Newell asked when the Agency can use the reserved funds and for what purpose. GM Lockwood clarified when and how the Agency can use these funds if it chooses to do so. Mr. Rodoni supported the idea that emergency issues should be covered by the cash reserve.

Action: Director Sanchez moved to recommend the Board approve the updated cash reserve policy; seconded by Director Newell.

The motion carried following vote:

Ayes: **Culbertson, Sanchez, Newell**
Noes: **None**
Abstain: **None**
Absent: **None**

7. **Consider the Investment Policy**
GM Lockwood explained the committee last reviewed this policy in June of 2023. There have been no changes to the policy since then. However, upon review of the policy by Director Culbertson, there may need to be some minor changes to the language surrounding the responsibilities and authorized actions of the positions held. Mr. Rodoni suggested obtaining legal counsel and writing in "appointed Board Members" in lieu of staff so that when attrition occurs, the Agency isn't left without an authorized representative.

Action: Director Newell moved to table this item to the July Admin. Finance Committee Meeting; seconded by Director Culbertson.

The motion carried following vote:

Ayes: **Culbertson, Sanchez, Newell**
Noes: **None**
Abstain: **None**
Absent: **None**

8. **Consider Resolutions Certifying Compliance with State Law with Respect to the Levying of General and Special Taxes, Assessments, and Property-Related Fees and Charges (Management Fees)**
GM Lockwood explained this is a standard item brought before the committee annually. He also explained that Monterey County requested a specific resolution this year, separate from the resolution for Santa Cruz and San Benito Counties. Director Sanchez asked if the fee ever sunsets to which GM Lockwood replied in the negative. Mr. Rodoni stated that Monterey County is attempting to consolidate fees on tax bills which could be why they requested a separate resolution.

Action: Director Sanchez moved to recommend the Board approve the resolutions certifying compliance with state law with respect to the levying of general and special taxes, assessments, and property-related fees and charges (management fees); seconded by Director Newell.

The motion carried following vote:

Ayes: **Culbertson, Sanchez, Newell**
Noes: **None**
Abstain: **None**
Absent: **None**

9. **Consider Accepting Financial Reports:**
FASM Trevino explained the Agency's cash position ending April 30, 2024, showing $20M in total. BNY Mellon's cash balance has been identified as erroneous and has been corrected to $196. FASM Trevino also explained how the WIFIA loans are managed directly by the EPA, in lieu of BNY Mellon, since the WIFIA loans are not cash in bank accounts.

Action: Director Newell moved to accept the financial reports and recommend the Board approve them; seconded by Director Sanchez.

The motion carried following vote:

Ayes: **Culbertson, Sanchez, Newell**
Noes: **None**
Abstain: **None**
Absent: **None**

10. **Consider Accepting Cash Flow Reports:**
    FASM Trevino explained the aging accounts receivable 3-month trend which shows the Agency has received most of the March billing, with a balance of under $30K outstanding. The balance over 120 days grew slightly, resulting from repeat offending customers. FASM Trevino stated the positive cash recovery resulting from legal counsel sending demand letters to delinquent customers. The remainder of the report activity shows AP May disbursements. Mr. Rodoni asked when the Agency makes public record of the delinquent customer accounts with balances over 120 days. GM Lockwood explained the Agency currently does not publicly share this information, but liens are public record.

    Action: Director Sanchez moved to accept the cash flow reports and recommend the Board approve them; seconded by Director Newell.

    The motion carried following vote:

    Ayes: **Culbertson, Sanchez, Newell**
    Noes: **None**
    Abstain: **None**
    Absent: **None**

11. **Discuss Future Agenda Items and Next Meeting Date:** Revision of the Investment Policy is a future agenda item. The next regular meeting date is set for Tuesday, July 9, 2024, 3:00 p.m.

    Adjournment: 3:58 p.m.

MEMORANDUM

DATE: July 5, 2024
MEETING OF: July 9, 2024
TO: Administration & Finance Committee
FROM: General Manager
RE: **ITEM 5:** Consider Proposed Operations Department Organization Chart Changes

INTRODUCTION

With the College Lake Integrated Resources Management Project (College Lake Project) under construction and the understanding that PV Water would be creating one to two new positions to help operate and maintain the project, staff have spent time reviewing the structures of Santa Cruz and Monterey County water districts to evaluate how they organize their Operations, Maintenance, and Meter Departments. As part of this effort, staff also conducted a salary survey of comparable positions, and spoke directly with the General Managers of several of the water districts.

DISCUSSION

The Environmental Impact Report (EIR) for the College Lake Project, in Chapter 3.12, Energy, Utilities, Public Services, and Recreation, evaluated the environmental impacts of PV Water hiring up to two new staff members to operate and maintain the project. Following the work noted above, staff recommend the following amendments to the PV Water Organization Chart:

- Reclassify the Water System Operations Supervisor as the Operations & Maintenance Manager and make it responsible for overseeing facility operations, maintenance, and meters. In addition, make it an exempt position with benefits in-line with PV Water's other exempt positions.
- Reclassify the Water System Operator as Water System Operator I/II, with increasing degrees of experience and certifications.
- Create a second Water System Operator I/II.

FISCAL IMPACT

The Board adopted Fiscal Year 2024-25 budget, which anticipated the creation of a new position, contains approximately $430,000 for salaries and benefits for these two positions. Based on the results of the salary survey, staff recommend the following monthly pay scale:

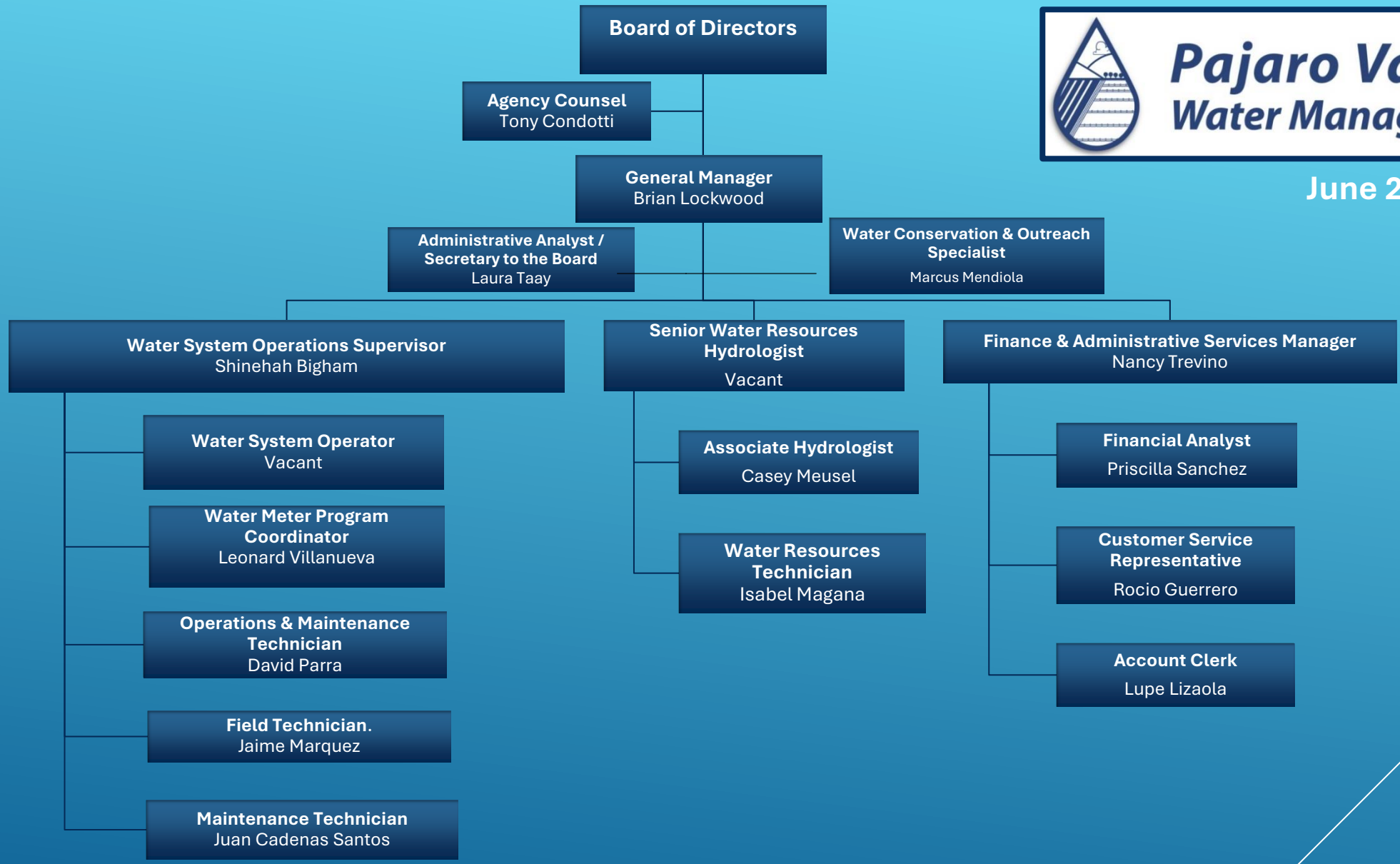
	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7
O&M Manager	10,400	10,920	11,466	12,039	12,641	13,273	13,937
WSO II (WSO I + 10%)	6,854	7,197	7,556	7,934	8,331	8,748	9,185
WSO I (O&M Tech + 3%)	6,231	6,542	6,869	7,213	7,574	7,952	8,350

STAFF RECOMMENDATION

The Committee considers the proposed Operations Department Organization Chart Changes and make a recommendation to the Board.

ATTACHMENTS

- Exhibit A: Organization Charts (Current & as Proposed)
- Exhibit B: Proposed Job Descriptions
- Exhibit C: Proposed Salary Schedule



Pajaro Valley Water Management Agency

June 2024

ORGANIZATION CHART

Pajaro Valley Water Management Agency

Proposed July 2024

ORGANIZATION CHART

OPERATIONS & MAINTENANCE MANAGER

REPORTS TO: General Manager
STATUS: Exempt
POSITION: Bilingual preferred
REVISED: July 5, 2024

DEFINITION Under general direction, manages, plans and organizes the operations, maintenance, and construction of the Agency's water supply, treatment, distribution, recharge, and storage systems, and metering program: including equipment; facilities and grounds; distribution infrastructure; monitoring, regulatory and legal requirements; ensures the reliable operation of all equipment, whether stationary or mobile; ensures conformance with applicable laws, regulations and Agency policies; fosters cooperative working relationships with intergovernmental and regulatory agencies and various public and private groups; oversees and manages the work of assigned staff and consultants; performs other duties as assigned. May serve on behalf of the General Manager as assigned and during periods of absence. Performs related work as required.

GENERAL CHARACTERISTICS

- This position functions as head of the Agency's Operations & Maintenance Department, which includes Operations, Maintenance, and the Meter Program; and oversees field and operational activities, construction, and facilities repair, including short- and long-range capital improvement planning and budgeting.
- Exercises management authority over assigned staff and is distinguished from the General Manager, which is the organizational leader responsible for all Agency operations and functions.
- Develops and oversees departmental planning, operational goals, and objectives.
- Oversees and establishes procedures and policies for Operations, Maintenance, and Meter Program employee training, duties, safety, and documentation.

Supervision Received and/or Exercised

This position receives general direction from the General Manager and exercises direct supervision over professional and clerical staff within assigned division.

EXAMPLES OF DUTIES

- Directs the departmental operation, maintenance, construction, and repair of water sources, distribution, storage, treatment, and pipeline systems.
- Directs the facilities, equipment, and fleet procurement for the department as well as procurement and inventory activities.
- Plans, organizes, administers, reviews, and evaluates the work of assigned staff directly; manages staff selection, training, professional development, and work evaluation; provides policy guidance and interpretation; takes authority action on corrective measures and discipline.
- Ensures utility system meets regulatory requirements; manages inspection and servicing program for storage, wells, pumps, motors, generators, chemical feed and pressure filter equipment and related facilities and equipment.
- Monitors, evaluates, researches and selects equipment and materials for water conveyance system, system improvements, conveyance system equipment and underground line repair.
- Directs the use and efficiency of technology/computer systems utilized in department operations

including SCADA.
- Directs the recycled water use permitting program to ensure compliance with Agency's ordinances and regulations.
- Develops and coordinates department's work plan with the Water System Operators and Meter Program Coordinator, and with other Agency departments.
- Directs departmental training, educational activities and events to promote skills and knowledge acquisition, career development and advancement opportunities.
- Establishes, creates, maintains and oversees recordkeeping for and reporting of Operations and Maintenance departmental activities, and functions.
- Directs and oversees departmental budget, capital improvement departmental project planning and execution.
- Directs the use of, and implements changes in departmental functions, systems, programs, methods, practices, technologies, etc.
- Prepares a variety of written correspondence, reports, procedures, spreadsheets and other written materials.
- Represents departmental leadership with the Board of Directors, staff, various governmental agencies, developers, contractors, businesses, industrial groups, and the public.
- Builds and maintains positive working relationships.
- Responds to questions and complaints from staff, the public, contractors and outside agencies.
- Performs special projects as assigned.

➢ **Assistance to the General Manager:**

- May serve as assistant executive officer on matters delegated by the General Manger.
- Write, read and edit correspondence and reports; provide complex analysis and research as assigned.
- May serve and act on behalf of the General Manager as assigned.
- Participate in technical and professional meetings, representing the Agency where necessary, and perform related work as required.

QUALIFICATIONS

Knowledge of:

- Management principles and practices including work planning, goal setting and program development, implementation, and evaluation.
- Principles and practices of employee supervision, staff development, training, and performance evaluation.
- Principles and practices of the development, maintenance, and management of water infrastructure and operations systems and facilities.
- Principles of capital improvement and asset management including construction, inspection and long term maintenance.
- Applicable Federal and State laws and regulations, District policies and department procedures applicable to the operations and maintenance of water distribution systems.
- Preparing and presenting reports.
- English usage, grammar, spelling, vocabulary, and punctuation.
- Safe work practices and safety regulations.
- Recordkeeping principles and procedures.
- Modern office procedures, methods, and equipment including Office Suite, cloud-based applications such as Microsoft Onedrive, technology applications related to electronic instrumentation and control equipment (PLCs), remote terminal units (RTUs), radios, and control and data acquisition plant monitoring systems (SCADA), GIS databases and computerized maintenance management software (CMMS) databases and their respective software.

Techniques for effectively representing the Agency in contacts with governmental agencies, community groups, and various business, professional, educational, regulatory, and legislative organizations.

Ability to:

- Identify and respond to community, General Manager, Legal Counsel, and Board issues, concerns and needs.
- Supervise, coach, counsel and motivate and set long and short-term goals and objectives for staff.
- Analyze a variety of complex operations and maintenance problems and make sound policy and procedural recommendations and implement the recommendations.
- Read, speak, write, and comprehend English at a level necessary to carry out the essential function of the position.
- Direct, coordinate, review and evaluate water system operations, distribution and maintenance programs.
- Develop and implement goals, objectives, policies, procedures, work standards and internal controls.
- Interpret, apply and explain complex laws, codes, regulations, and ordinances.
- Make sound, independent decisions in day-to-day activities and in emergency situations.
- Analyze, interpret, summarize, and present administrative information, technical information, and data in an effective manner.
- Prepare clear and concise reports, correspondence, policies, procedures, and other written materials.
- Organize and prioritize projects and tasks effectively; meet time deadlines.
- Operate technology and software applications such as Office suite, SCADA, cloud-based programs, CCMS, etc.
- Read and interpret plans, maps and specifications, schematics and manuals.
- Use tact, initiative, prudence, and independent judgment.
- Establish and maintain effective relationships with those contacted in the course of work, including PV Water and other elected officials, community groups, and the general public.

TRAINING AND EXPERIENCE Any combination equivalent to experience and training that would provide the required knowledge, skills, and abilities. A typical way to obtain the knowledge, skills and abilities would be:

Training: Equivalent to a bachelor's degree from an accredited college or university with major course work in water resource management, physical science, engineering, environmental sciences or studies, or a closely related field and at least five years of increasingly responsible supervisory experience in water or wastewater systems, treatment, operations and maintenance.

Or

Experience: Eight years of responsible professional water or wastewater systems, treatment, operations and maintenance experience, including five years of management or supervisory experience.

LICENSE AND CERTIFICATES REQUIRED

Possess and maintain a valid California Driver's License

Maintain automobile liability coverage with a minimum of $50,000 single limit or $50,000/$100,000 per occurrence during employment.

Possess and maintain valid certifications issued by the State Water Resources Control Board: Grade 2 Water Distribution Operator (D2) and Grade 2 Water Treatment Operator (T2).

OTHER REQUIREMENTS:

- Must reside within a 60-minute response time by hire date.
- On Call and Emergency Work: Must respond as needed on off-hours and attend Board meetings and out-of-area conferences and meetings, as required. Must respond to emergency situations outside of working hours.

PHYSICAL DEMANDS AND WORKING CONDITIONS Employee may be required to work evenings, weekends, holidays, split shifts; use a personal vehicle in the course of employment; attend periodic evening meetings; travel within/outside the Agency boundaries; work at computer for prolonged periods; perform work that involves frequent lifting, pushing and pulling of objects weighing approximately 50 pounds; must have the mobility and stamina to walk long distances on uneven terrain and to stand, stoop, reach and bend for prolonged periods; must be able to reach, and grasp and manipulate small objects; must be able to hear test equipment in operation and to be aware of danger in the field; must be able to distinguish shades of color; may be required to work in inclement weather and in the sun, cold and rain; may be required to work with harsh or toxic substances and will be required to wear protective apparel; may work in and around moving water in streams and water or work in enclosed spaces/heights above ground level; typically works around dust and pollens, ticks and poison oak.

Revised: 7/5/2024
FLSA Status: Exempt

WATER SYSTEM OPERATOR I / II

REPORTS TO: Operations & Maintenance Manager
STATUS: Non-exempt
POSITION: Bilingual preferred
REVISED: July 5, 2024

DEFINITION

Under general supervision, performs a variety of tasks to operate, monitor, inspect, and maintain the Agency's water supply, treatment, distribution, recharge, and storage systems; assists in planning, organizing, and coordinating operation and maintenance of above systems; assists in coordinating the recycled water use permitting program to ensure compliance with Agency's ordinances and regulations. May assist monitoring construction and may coordinate with consultants and contractors. Performs related work as required.

CLASS CHARACTERISTICS

- Receives minimal supervision within a framework of general guidelines and is responsible for the safe and effective operation and maintenance of the Agency's water supply, treatment, distribution, recharge, and storage systems.
- Employees typically work alone in the field, drive, and hike in off-road agricultural areas, and walk into construction areas.
- Communicates in close coordination with growers, landowners, engineers, developers, contractors, and designated public agencies.
- Assists in administering and coordinating the activities of the recycled water use permitting program.

Water System Operator I is the entry level position in this class series. This class level is distinguished from Water System Operator II, which is journey-level.

Water System Operator II is the journey-level class in water operations, performing the full range of tasks under less supervision while exercising discretion and independent judgement within established guidelines, and may assist the Operations and Maintenance Manager with supervision of field personnel, operations and project oversight and coordination with consultants and contractors during the construction phase of new facilities.

EXAMPLES OF DUTIES

Water System Operator I:

- Operates, inspects, troubleshoots and maintains the Agency's water supply, treatment, distribution, recharge, and storage systems, including pump stations, pumps, wells, meters, valves, water treatment, and SCADA (Supervisory and Data Acquisition) computer controls, using multiple modalities including physical, daily field work as well as monitoring systems remotely by computer.
- Performs 24-hour on-call service on a rotating basis with other technical department staff for one-week periods during which time: Responds to SCADA alarms, emergency calls for service, customer requests for water orders or changes to the irrigation schedule, and monitors and operates the distribution system on nights and weekends.

- Observes safe work methods and safety practices; operates and inspects system, equipment and vehicles skillfully and safely; reports unusual operating conditions and needs for repair; uses appropriate safety equipment.
- Safely handles, stores, maintains, and coordinates deliveries of sodium hypochlorite as prescribed.
- Communicates closely with coworkers, growers, owners, recycled water facility operators, regulatory agencies and other water agencies.
- Efficiently operates the system with multiple water sources to meet Agency goals, water quality, supply and demand.
- Reads, interprets, and refers to record plans, specifications, GIS maps, and construction drawings; takes field measurements and collects GPS data.
- Marks the location of underground Agency utilities such as recycled water, filtered water and fiber optic lines in response to USA requests.
- Places traffic control flags, signs, and cones to direct traffic around work sites; may direct traffic.
- Assists in ensuring compliance with Agency and regulatory requirements regarding recycled water use; processes recycled water use permit applications and works with customers to prepare and maintain recycled water use site permitting.
- Prepares and maintains data, logs, and records related to system operations; creates and maintains spreadsheets and other databases; prepares necessary reports and correspondence related to water system operation.
- May assist in reading, replacing, or repairing water meters.
- Performs preventative and predictive maintenance.
- Performs related work as assigned.

Water System Operator II – the above, plus:

- Assists Operations and Maintenance Manager with planning, organizing, and coordinating the operation and maintenance of Agency-operated supply, treatment, distribution, recharge, and storage systems,
- May assist Operations and Maintenance Manager with review of construction plans and inspection of work in progress.

QUALIFICATIONS

Water System Operator I, Knowledge of:

- Operational principles and maintenance practices of pumps, motors, generators, electrical control and similar water utility equipment.
- Safety precautions pertaining to water system work, including hazardous chemicals.
- Use and care of basic hand and power tools.
- Computer operating methods including Teams, Outlook, Excel, Word, basic principles and procedures of record keeping.
- Basic technology applications related to electronic instrumentation and control equipment (PLCs), remote terminal units (RTUs), and control and data acquisition plant monitoring systems (SCADA).
- English usage, spelling, grammar, and punctuation.

Water System Operator II, Knowledge of the above, plus:

- Principles, practices, codes and regulations affecting the operation of surface water storage and treatment, wells, distribution systems, and recycled water distribution.

- Troubleshooting and diagnostic techniques and methods used in the maintenance of water utility operations and systems.
- Theories, principles, and practices pertaining to groundwater tables, flow, and quality.

Water System Operator I, Ability to:

- Monitor and control storage, treatment, wells, and distribution systems.
- Use initiative and independent judgment to recognize unusual/dangerous conditions, make rapid adjustments, while using appropriate safety precautions.
- Make accurate arithmetic calculations.
- Maintain accurate logs and records of data and observations.
- Operate a computer to enter, store and manipulate data; prepare reports.
- Operate and read equipment gauges, meters, and pumps.
- Establish and maintain effective relationships with growers, landowners, Watsonville Recycled Water System public agency staff, consultants, contractors, and act in a courteous and tactful manner with those contacted in the course of work.
- Desirable: Communicate in Spanish to discuss water orders and changes with irrigators on the phone and in the field.

Water System Operator II, Ability to do the above, plus:

- Apply the fundamentals of electricity, hydraulics, and hydrology.
- Diagnose and service difficult and challenging operational issues.

LICENSE AND CERTIFICATES REQUIRED

- Possess and maintain a valid California driver's license.
- Maintain automobile liability coverage with a minimum of $50,000 single limit or $50,000/$100,000 per occurrence.
- Clean DMV record.
-
- **Water System Operator I**: Possess and maintain valid certifications issued by the State Water Resources Control Board: Grade 1 Water Distribution Operator (D1) and Grade 1 Water Treatment Operator (T1).
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  Water System Operator II: Possess and maintain valid certifications issued by the State Water Resources Control Board: Grade 2 Water Distribution Operator (D2) and Grade 2 Water Treatment Operator (T2).

OTHER REQUIREMENTS:

- Must reside within a 60-minute response time by hire date.
- Must be available to perform on-call duty assignment and call-back work as required, which may include holidays, weekends, and evenings.

TRAINING AND EXPERIENCE

Water System Operator I: Any combination of training, education, and experience that demonstrates possession of the ability to perform the duties of the position. A typical qualifying background is a high school diploma and two (2) years' work experience in water utility or wastewater system construction, operation, and maintenance,

Or

Completion of associate's degree in water resource management, physical science, engineering, environmental sciences or studies, or a closely related field and at least one year of increasingly responsible experience in water or wastewater systems, treatment, operations and maintenance.

Water System Operator II:
Equivalent to above, plus two (2) years of journey-level experience in the operation and maintenance of pumps, motors, and similar equipment found in a water utility.

PHYSICAL DEMANDS AND WORKING CONDITIONS

Employee may be required to work evenings, weekends, holidays, split shifts; use a personal vehicle in the course of employment; attend periodic evening meetings; travel within/outside the Agency boundaries; work at computer for prolonged periods; perform work that involves frequent lifting, pushing and pulling of objects weighing approximately 50 pounds and may occasionally be required to lift up to 100 pounds with assistance; must have the mobility and stamina to walk long distances on uneven terrain and to stand, stoop, reach and bend for prolonged periods; must be able to reach, and grasp and manipulate small objects; must be able to hear test equipment in operation and to be aware of danger in the field; must be able to distinguish shades of color; may be required to work in inclement weather and in the sun, cold and rain; may be required to work with harsh or toxic substances and will be required to wear protective apparel; may work in and around moving water in streams and water or work in enclosed spaces/heights above ground level; typically works around dust and pollens, ticks and poison oak.

PAJARO VALLEY WATER MANAGEMENT AGENCY							
SALARY SCHEDULE - MONTHLY RATE							
EFFECTIVE 7/1/24 & AS PROPOSED							
POSITION	Step						
	1	2	3	4	5	6	7
Finance and Administrative Services Manager	12,489	13,114	13,769	14,458	15,181	15,940	16,737
O&M Manager (Proposed)	**10,400**	**10,920**	**11,466**	**12,039**	**12,641**	**13,273**	**13,937**
Water System Operations Supervisor	8,394	8,813	9,254	9,717	10,203	10,713	11,248
Water System Operator	8,002	8,402	8,822	9,263	9,726	10,213	10,723
Associate Hydrologist	8,002	8,402	8,822	9,263	9,726	10,213	10,723
Financial Analyst	7,420	7,791	8,181	8,590	9,020	9,471	9,944
Water System Operator II (Proposed)	**6,854**	**7,197**	**7,556**	**7,934**	**8,331**	**8,748**	**9,185**
Administrative Analyst	6,637	6,969	7,317	7,683	8,067	8,471	8,894
Water Conservation & Outreach Specialist	6,378	6,697	7,032	7,384	7,753	8,140	8,547
Water Meter Program Coordinator	6,248	6,561	6,889	7,233	7,595	7,975	8,373
Water System Operator I (Proposed)	**6,231**	**6,542**	**6,869**	**7,213**	**7,574**	**7,952**	**8,350**
Operations and Maintenance Technician	6,049	6,352	6,669	7,003	7,353	7,721	8,107
Customer Service Representative	5,653	5,936	6,233	6,545	6,872	7,215	7,576
Water Resources Technician	5,144	5,401	5,671	5,955	6,253	6,565	6,894
Field Technician	4,886	5,130	5,387	5,656	5,939	6,236	6,548
Maintenance Technician	4,886	5,130	5,387	5,656	5,939	6,236	6,548
Account Clerk	4,799	5,039	5,291	5,555	5,833	6,125	6,431

General Manager	20,740

MEMORANDUM

DATE: July 5, 2024
MEETING OF: July 9, 2024
TO: Administration & Finance Committee
FROM: General Manager
RE: **ITEM 6:** Consider College Lake Integrated Resources Management Project Water Quality Monitoring Instrumentation & Installation Project with YSI Inc., in an Amount Not to Exceed $123,746

INTRODUCTION

When this item goes before the Pajaro Valley Water Management Agency (PV Water) Board of Directors (Board) on July 17, 2024, staff will ask the Board to consider approval of an agreement with YSI Inc. (YSI) for the College Lake Integrated Resources Management Project Water Quality Monitoring Instrumentation & Installation Project, in an amount not to exceed $123,746. The proposed scope of work includes the furnishing and installation of water quality monitoring, meteorological monitoring, and communication equipment to support operation, regulatory compliance, and adaptive management of the College Lake Integrated Resources Management Project (College Lake Project or Project).

BACKGROUND

The College Lake Project is a critical water supply project that staff and consultants have worked diligently to prepare environmental documents, design, acquire necessary property rights and permits, conduct environmental monitoring, and perform public outreach activities following the Board's approval of the Basin Management Plan Update (BMP) in April 2014. PV Water published the Draft EIR for the Project in October 2019 and in the three years that followed, staff and consultants acquired all necessary permits, approvals, and property rights to construct the Project. On February 1, 2023, the Board approved contracts for construction, project management, engineering, and environmental monitoring services associated with the construction of the project. PV Water issued Notices to Proceed to the project contractor Mountain Cascade Inc. on March 15, 2023. Construction of the is underway and should be largely complete by November 1, 2024.

DISCUSSION

PV Water, with support from consulting Aquatic Ecologist Mike Podlech, developed a water quality plan to monitor water quality conditions and potential changes from operation of the College Lake Project. The plan, the Final Water Quality Monitoring Plan for College Lake Integrated Resources Management Project (College Lake Project WQ Plan), was required to satisfy a term of the College Lake Project water right permit (Permit 21422) and required approval from the California Department of Fish and Wildlife (CDFW). The permit term required that the plan include water quality treatment measures, parameters, and water quality monitoring methodologies. The College Lake Project WQ Plan was approved by CDFW and the monitoring performed under the plan will also satisfy Project **Mitigation Measure HYD-2a** presented below.

> **Mitigation Measure HYD-2a: Water Quality Adaptive Management for College Lake**.
> To learn about potential impacts of the Project on College Lake water quality and the quality of downstream water bodies, PV Water shall monitor College Lake water for indications of Cyanobacteria blooms. When the proposed weir crest is elevated to 62.5 feet NAVD88, PV Water shall monitor College Lake water temperature within the water column to establish

> whether a thermocline develops. PV Water shall use results of this monitoring to support the development of the Adaptive Management Plan (refer to Section 2.7 [of the 2019 Draft EIR]) that establishes management actions to minimize the conditions that can contribute to algal blooms, including cyanobacteria blooms, such that this impact is mitigated.

During operation of the Project, lake levels will routinely remain deeper later in the year, a condition that has the potential to change lake water quality conditions. The College Lake Project EIR identified the potential for cyanobacteria blooms to occur in College Lake in the summer if water of sufficient depth is present given the land uses in the area are similar to those of nearby Pinto Lake which is heavily impacted by cyanobacteria blooms at times. To mitigate this potential impact, the Board approved Mitigation Measure HYD-2a.

The College Lake Project WQ Plan incorporates existing monitoring performed by PV Water as well as expanded monitoring tasks. The expanded monitoring described in the plan includes periodic grab sampling for algal identification/enumeration and cyanotoxins (Table 2); additional sondes to be deployed in-lake for continuous sampling (Table 3) of depth, water temperature, dissolved oxygen, specific conductance, pH, chlorophyll-a, and phycocayanin; and monthly vertical profile sampling of water temperature, dissolved oxygen, specific conductance, chlorophyll-a, and water clarity (Secchi depth).

PV Water staff solicited quotes from reputable and experienced vendors to supply and install the monitoring equipment necessary to satisfy the continuous monitoring requirements outlined in Table 3 of the College Lake Project WQ Plan for two (2) in-lake monitoring stations. Quotes were provided by OTT HydroMet, Eyasco/Eureka Water Probes, and YSI. Staff and consultants reviewed the quotes and determined that YSI offered the best suited proposal to furnish and install the necessary monitoring equipment which included the additional capability of constructing a meteorological station.

Under the College Lake Integrated Resources Management Project Water Quality Monitoring Instrumentation & Installation Project, YSI will furnish four (4) water quality sondes to continuously monitor surface and bottom conditions at the two (2) in-lake monitoring stations (CL1 [at weir] and CL2 [mid-lake]). A fifth sonde will be provided and utilized for conducting 1-foot vertical profiles at the two stations and serve as a backup unit for any failure of the surface and bottom sondes. YSI will also furnish and install a meteorological station at CL1 capable of monitoring wind, temperature, relative humidity, pressure, precipitation, solar radiation, and evaporation. Data collected at the meteorological station will support operation of the Project as PV Water plans to transition to a water budget approach to calculate lake inflows based on lake storage, outflows, and evaporative losses in water year 2026 and beyond. The continuous water quality monitoring and meteorological data will be transmitted via cellular modems to HydroSphere, a cloud-based data hosting and visualization program.

In addition to the uses above, the data collected from this monitoring equipment will be integrated to support implementation of the College Lake Project Adaptive Management Plan which established metrics, triggers, and management actions to guide operations and maintenance, and in particular mitigate negative impacts to the lake ecosystem such as the cyanobacteria algal blooms.

FISCAL IMPACT

The cost estimate for the College Lake Integrated Resources Management Project Water Quality Monitoring Instrumentation & Installation Project is $123,746. Some staff time will go toward project management and conducting related field work.

STAFF RECOMMENDATION

The Committee review the quote for furnishing and installing water quality, meteorological, and communication equipment and recommend approval to the Board.

The staff recommendation that will be presented to the Board on July 17, 2024, is that the Board approve an agreement, in substantially the same form as the version attached, with YSI Inc. for College Lake Integrated Resources Management Project Water Quality Monitoring Instrumentation & Installation Project with YSI Inc., in an Amount Not to Exceed $123,746, through March 30, 2025.

ATTACHMENT

- YSI Inc. Quote #B243518 for the College Lake Integrated Resources Management Project Water Quality Monitoring Instrumentation & Installation Project in an amount of $123,746.
- Final Water Quality Monitoring Plan for College Lake Integrated Resources Management Project

Quote Number:	B243518
Quote Created:	2024 May 07
Quote Expiration Date:	2024 Jul 31

Quote Prepared For:

Casey Meusel
Pajaro Valley Water Management Agency
36 Brennan St
Watsonville, CA 95076
(831) 722-9292
meusel@pvwater.org

Project Description:

ISS388
3rd Revision. Cellular system. 3 days field services by professional team.
Customer supply stilling well and pole to mount wier based solar panel and data logger.
Recurring costs are $240 per year for cloud hosting and $1,200 for cellular data
(customer can supply fixed IP's alternatively)
One TIme Sonde Discount Applied

Prepared by: Tim Finegan
Cell Phone: (224) 500-5182
Email: tim.finegan@xylem.com

NOTICE:

The following pricing is proprietary and confidential information. Neither this document nor its contents may be revealed or disclosed to unauthorized persons or sent outside the institution without prior permission from Xylem Inc.

*Please make PO out to YSI Incorporated. For YSI payment remittance instructions, please see the last page of this quote.

Quote #: B243518
Expires: 2024 Jul 31

Proposal Summary

DB600 Two Sonde Buoy

Lake Flux between 2ft min and 25ft max depth, DB600 needs 4-5 ft.

#	Part Number	Description	List Price USD	Discount	Net Price USD	Qty	Ext. Price USD
1	351197-50	DB600 buoy with Ai1 system Includes: -Verizon 4G modem -3 x 9 Watt Solar Panels and 8ah battery -Integrated GPS -EXO RS-485 Adapter -EXO Bulkhead Connector -1m EXO Field Cable -2nm Navigation beacon -1m mooring chain and shackle -Base programming for EXO and/or DCS	$13,052.00	5.00%	$12,399.40	1	$12,399.40
2	203700	HydroSphere Cloud based data hosting and visualization platform. Includes: Alarms, data exports, public website, scalable user roles, and more. Monthly service fee for new accounts.	$9.99	5.00%	$9.49	12	$113.88
3	203242	2 Way Cellular Communications, 12 Months, NEW	$613.00	5.00%	$582.35	1	$582.35
4	599040-33	EXO 33-m Field Cable - Connects sonde to EXO Handheld Display or USB adaptor - wet mate connectors and strain relief	$1,130.00	5.00%	$1,073.50	1	$1,073.50
5	911500-01000	Modified DB600 with two EXO inputs, additional programing	$1,000.00	5.0%	$950.00	1	$950.00
6	2 Point Mooring	Includes: 200553-035 qnty 2 mooring ropes Qnty 2 910050-000 Emm 68 common assembly, includes shackles and chain Qnty 1 911190-05 subsurface float. Qnty 2 - 300510580 - 35lb dormor anchor Line weights to drop line with shallow water	$2,500.00	5.0%	$2,375.00	1	$2,375.00
7	202866	Bulkhead connector for additional sonde, installed in DB600 buoy.	$279.00	5.0%	$265.05	1	$265.05
						Subtotal	$17,759.18

Quote #: B243518
Expires: 2024 Jul 31

Stilling well System with MET

Customer provide Stilling Well

#	Part Number	Description	List Price	Discount	Net Price	Qty	Ext. Price
1	599040-33	EXO 33-m Field Cable - Connects sonde to EXO Handheld Display or USB adaptor - wet mate connectors and strain relief	$1,130.00	5.00%	$1,073.50	1	$1,073.50
2	203310	Turnkey Enclosure (No Data Logger) 16-in x 18-in NEMA 4X rated enclosure ready for data logger integration. Includes a 12v/26ah battery, 30 Watt solar panel, panel mount, and solar regulator. Also includes terminal strip, fusing, dessicant, and internal humidity sensor. Includes basic labor, configuration, testing and fabrication.	$4,152.00	5.00%	$3,944.40	1	$3,944.40
3	202469	YSI's DL1000X Measurement and Control Datalogger	$2,250.00	5.00%	$2,137.50	1	$2,137.50
4	203287	EXO3 Flying Lead Port Option: For Flying Lead Cable into Enclosure (does NOT include SOA)	$143.00	5.00%	$135.85	1	$135.85
5	200072	Software, LoggerNet Data Logger Software Base Station Connect and Scheduling Software (LoggerNet)- Used to send new programs to the system and schedule data retrieval for systems with telemetry.	$960.00	5.00%	$912.00	1	$912.00
6	203254	Modem, Cellular, Campbell CELL210 External. Verizon only	$766.00	5.00%	$727.70	1	$727.70
7	203223	ANTENNA,DIRECT MOUNT,IP67,4G-LTE,WIFI,698-960MHZ,1710-2700MHZ,SMA(M)	$350.00	5.00%	$332.50	1	$332.50
8	203242	2 Way Cellular Communications, 12 Months, NEW	$613.00	5.00%	$582.35	1	$582.35
9	203700	HydroSphere Cloud based data hosting and visualization platform. Includes: Alarms, data exports, public website, scalable user roles, and more. Monthly service fee for new accounts.	$9.99	5.00%	$9.49	12	$113.88

#	Part Number	Description	List Price	Discount	Net Price	Qty	Ext. Price
10	1891026-00	GMX600 MAXIMET COMPACT WEATHER STATION - Weather Station for Wind, Temp, RH, Pressure and Precipitation	$6,133.00	5.00%	$5,826.35	1	$5,826.35
11	203080	Li-Cor 190R Quantum PAR Sensor - Atmospheric Includes bare leads and 5 m cable	$1,029.00	5.00%	$977.55	1	$977.55
12	400612249	Solar Radiation Base and Leveling Fixture	$140.00	5.00%	$133.00	1	$133.00
13	200041	Pyranometer Mounting Arm,015ARM	$279.00	5.00%	$265.05	1	$265.05
14	H-3401-01-01	Tipping Bucket Rain Gauge, 8-in funnel, SDI-12 Output, with 20-ft cable, with 0.1-mm/Tip Output	$1,129.00	5.00%	$1,072.55	1	$1,072.55
15	911500-01000	Programming and testing of logger, , MET Sensor, aggregate data from all sensors on this logger	$1,000.00	5.0%	$950.00	1	$950.00
						Subtotal	$19,184.18

Water Quality Sondes

For Surface, Bottom, and Spare/Sampling

#	Part Number	Description	List Price	Discount	Net Price	Qty	Ext. Price
1	599503-01	EXO3 Sonde, 10m Depth, 5 Sensor Ports, Central Wiper Compatible - Depth Range: 0-10m - No AUX Port / Compact Battery Compartment - Contains: Sonde, 2 D Batteries, Calibration Cup, Tool Kit, 3 port plugs, USB drive loaded with User Manual and KOR Software	$6,435.00	15.00%	$5,469.75	5	$27,348.75
2	599827	EXO Wiped Conductivity/Temperature Sensor - Purpose-built for combating sensor fouling in long-term monitoring applications - Designed and engineered for compatibility with EXO2 Sonde's Central Wiper - Additional Central Wiper Brush and Spacing Kit included	$1,850.00	15.00%	$1,572.50	5	$7,862.50
3	599100-01		$2,200.00	15.00%	$1,870.00	5	$9,350.00

#	Part Number	Description	List Price	Discount	Net Price	Qty	Ext. Price
		EXO Optical DO Sensor, Ti - Compatible with any EXO sonde - User replaceable sensor cap (installed) - Incorporates wet-mate connector and welded titanium housing					
4	599102-01	EXO Total Algae - PC Sensor, Ti - Optimized for freshwater use - Phycocyanin - Includes chlorophyll and blue green algae sensors in a single Sensor - Incorporates wet-mate connector and sealed welded titanium design	$3,800.00	15.00%	$3,230.00	3	$9,690.00
5	599090-01	EXO Central Wiper, EXO2, EXO3, Ti - Installs in center wiper port on EXO 2 and EXO 3 only - Includes 2 wiper brushes and installation tool - Used in unattended monitoring deployments to reduce biofouling	$1,375.00	15.00%	$1,168.75	5	$5,843.75
6	599040-10	EXO 10-m Field Cable - Connects sonde to EXO Handheld Display or USB adaptor - wet mate connectors and strain relief	$765.00	15.00%	$650.25	4	$2,601.00
7	599960	EXO Handheld Display, 2.0 - Handheld interface for EXO Sondes - Standard features include GPS, Temperature Compensated Baromater, Color LED Screen, Built-in Help Menus, Rechargeable Li-Ion Battery, USB On-The-Go Data Backup, Wet-Mate Connector, and IP-67 Rating	$3,120.00	15.00%	$2,652.00	1	$2,652.00
8	599810	EXO Signal Output Adapter - USB - Allows connections between EXO sonde and a PC	$465.00	15.00%	$395.25	1	$395.25

#	Part Number	Description	List Price	Discount	Net Price	Qty	Ext. Price
9	599564	EXO2 Anti Fouling Guard Sensor Guard designed with copper alloy to inhibit growth and extend deployment time	$1,015.00	15.00%	$862.75	4	$3,451.00
10	599008-10	EXO 10-m Flying Lead Cable - Connects EXO sonde to DCP Signal Output Adapter	$585.00	15.00%	$497.25	4	$1,989.00
						Subtotal	$71,183.25

Misc mooring Rope, Float Materials

The subsurface float, pickup lines, mushroom anchor, etc need parts sourcing, this is an estimated budget for those components. See sketch.

#	Part Number	Description	List Price	Discount	Net Price	Qty	Ext. Price
1	911501-01000	mushroom anchors, , poly pickup line, pickup float. Misc install materials from hardware store and west marine	$1,000.00	0.0%	$1,000.00	1	$1,000.00
						Subtotal	$1,000.00

Field Services

Onsite deployment assistance, Hydrosphere website configuraiton. Limited to 3 days for professional team, regional team provide additional assistance

#	Part Number	Description	List Price	Discount	Net Price	Qty	Ext. Price
1	370447	On-Site Field Engineering/Project Manager Services - One Field Engineer/Manager on site for 3 days to act as Technical Lead for specified engineering services. (See bottom of quote for details) **All On-Site Engineering must be scheduled at least 4 weeks in advance, includes all travel and living expenses** **Does not include materials, supplies or consumables** Please contact us if interested in options	$8,195.00	0.00%	$8,195.00	1	$8,195.00
2	370463	On-Site Field Technician Services - One Field Technician on site for 3 days for specified services (See bottom of quote for details). **All On-Site Services must be scheduled at least 4 weeks in advance, includes all travel and living expenses** **Does not include materials, supplies or consumables** Please contact us if interested in options	$6,424.00	0.00%	$6,424.00	1	$6,424.00
						Subtotal	$14,619.00

Quote #: B243518
Expires: 2024 Jul 31

Total List Price	$138,251.76
- Total Line Item Discount	$14,506.15
- Bottom Line Discount	0.00 %
Grand Total (in USD)	$123,745.61

***Please remember to indicate Ship Complete preference on the Purchase Order**

Terms	Net 30
FOB	Origin

This order is subject to the Standard Terms and Conditions of Sale - Xylem Americas effective on the date the order is accepted which terms are available at https://www.xylem.com/en-us/support/xylem-americas-standard-terms-and-conditions/ and incorporated herin by reference and made a part of the agreement between parties.

Quote #: B243518
Expires: 2024 Jul 31

YSI Inc., Payment Remittance Instructions

including Design Analysis Associates, EMS, MJK,
SI Analytical, Integrated Systems & Services and SonTek

Credit Card and Purchase Orders (reference or include quote B243518)

for YSI Incorporated

by Phone: (937) 767-7241 (Option 3)
by EMail: orders@ysi.com
by Fax: (937) 767-1058
by Mail: YSI Incorporated
Attn: Order Entry
1725 Brannum Lane
Yellow Springs, OH 45387

for Integrated Systems & Services

by Phone: (937) 767-7241 (Option 3)
by EMail: YSI.orders@xyleminc.com
by Fax: (937) 767-1058
by Mail: YSI Incorporated
Attn: Order Entry
1725 Brannum Lane
Yellow Springs, OH 45387

- Please make PO out to YSI Incorporated at the address above (Xylem is the parent company and we do business as YSI Incorporated).
- All purchase orders should be accompanied with a copy of this quote or clearly reference the quotation number.
- All purchase orders should have a complete billing and complete shipping address on the purchase order.
- For order acknowledgement please provide email address to send updates on order.
  EMail_Address_____
- Taxes and tariffs are additional and are not included in the above pricing unless explicitly stated as a line item.
- Shipping charges are additional and are not included in the above pricing unless explicitly stated as a line item.
- Tax Exempt customers must include their Tax ID on their purchase order. Proof of Tax Exemption status may be required.
- Please notify orders@ysi.com if you plan to pay with a check without a PO or Credit Card.

Payment Remit Address for quote B243518
Remit to YSI, Inc.
26717 Network Place, Chicago, IL 60673 - 1267

YSI Incorporated
Tax Identification # 31-0526418
DUNS 00-424-6716

by Check (Drawn on US Banks Only)
YSI Inc
26717 Network Place
Chicago, IL 60673-1267
Account Numb: 20000011127562
Account Name: YSI Inc.
by ACH (with Addenda Record), Wire or SWIFT
JPMorgan Chase Bank, N.A.
1 Chase Manhattan
New York, NY 10005
Wire Routing #: 021000021

ACH Routing #: 028000024
SWIFT BIC: CHASUS33

NOTE: Customer is responsible for all wire, banking and credit card processing fees. Select "Do not cover" (or similar) when submitting the payment, to avoid unnecessary and costly conversions from USD to other currency. In order to avoid delays in payment processing, please ensure that the remittance advice includes the following:

- Invoice number
- Invoice date
- Invoice amount

Quote #: B243518
Expires: 2024 Jul 31

YSI Inc., Payment Remittance Instructions

for Integrated Systems and Services

Credit Card and Purchase Orders (reference or include quote B243518)

for Integrated Systems & Services

by Phone: (937) 767-7241 (Option 3)
by EMail: YSI.orders@xyleminc.com
by Fax: (937) 767-1058
by Mail: YSI Incorporated
Attn: Order Entry
1725 Brannum Lane
Yellow Springs, OH 45387

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  EMail_Address_____
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- Shipping charges are additional and are not included in the above pricing unless explicitly stated as a line item.
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- Please notify orders@ysi.com if you plan to pay with a check without a PO or Credit Card.

Payment Remit Address for quote B243518

YSI Incorporated
Tax ID: 31-0526418
DUNS# 00-424-6716

by Check (Drawn on US Banks Only)
YSI Inc
26717 Network Place
Chicago, IL 60673-1267
Account Numb: 20000011127562
Account Name: YSI Inc.

by ACH (with Addenda Record), Wire or SWIFT
JPMorgan Chase Bank, N.A.
1 Chase Manhattan
New York, NY 10005
Account Numb: 20000011127562
Wire Routing #: 021000021
ACH Routing #: 028000024
SWIFT BIC: CHASUS33

NOTE: Customer is responsible for all wire, banking and credit card processing fees. In order to avoid delays in payment processing, please ensure that the remittance advice includes the following:

- Invoice number
- Invoice date
- Invoice amount

Warranty

General
YSI Integrated Systems, including standard sensor and accessories, are warranted for one year from date of purchase by the end user against defects in materials and workmanship. All Cables are warranted for one year from date of purchase by the end user against defects in material and workmanship. The warranty period for chemicals and reagents is determined by the expiration date printed on their labels. Within the warranty period, YSI will repair or replace, at its sole discretion, free of charge, any product that YSI determines to be covered by this warranty. Third party sensors and items not manufactured by YSI are not covered under this warranty. The original manufacturer's warranty may apply to the end customer, warranty claims should be directed to original manufacturer.

To exercise this warranty, write or call your local YSI representative, or contact YSI Customer Service in St. Petersburg, Florida, USA (information at the bottom of this page). Send the product and proof of purchase, transportation pre-paid, to your local YSI representative or the Factory Service Center selected by YSI. Repair or replacement will be made and the product returned transportation pre-paid. Repaired or replaced products are warranted for the balance of the original warranty period or at least 90 days from date of repair or replacement.

Limitation of Warranty
This warranty does not apply to any YSI product damage or failure caused by:

(i) failure to install, operate or use the product in accordance with YSI's written instructions,

(ii) abuse or misuse of the product,

(iii) failure to maintain the product in accordance with YSI's written instructions or standard industry procedure,

(iv) any improper repairs to the product,

(v) use by you of defective or improper components or parts in servicing or repairing the product, or

(vi) modification of the product in an way not expressly authorized by YSI.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. YSI's LIABILITY UNDER THIS WARRANTY IS LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, AND THIS SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY DEFECTIVE PRODUCT COVERED BY THIS WARRANTY. IN NO EVENT SHALL YSI BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY DEFECTIVE PRODUCT COVERED BY THIS WARRANTY.

YSI Factory Service Centers
United States

YSI Integrated Systems & Services
1725 Brannum Lane
Yellow Springs, OH 45387

Phone: 937-767-7241

E-Mail: systems@ysi.com

Final

Water Quality Monitoring Plan

For

College Lake Integrated Resources Management Project

Prepared for

Pajaro Valley
Water Management Agency

Prepared by

Mike Podlech, Aquatic Ecologist

March 2021

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CHAPTER 1
Introduction

1.1 Background

The Pajaro Valley Water Management Agency (PV Water) is planning to implement the College Lake Integrated Resources Management Project (College Lake Project or Project). The Project will store and divert water from College Lake for treatment, transmission, and distribution for agricultural irrigation. The primary purposes of the Project are to help balance the Pajaro Valley groundwater basin, prevent further seawater intrusion, and meet water supply needs in PV Water's service area by developing College Lake as a water storage and supply source. In support of this project, PV Water submitted water right Application A032881 to the State Water Resources Control Board for the storage and diversion of up to 3,000 acre-feet of water per year (AFY) at College Lake. The California Department of Fish and Wildlife (CDFW) initially protested the application but subsequently dismissed the protest conditionally, provided the water right permit contains a number of specific terms, including the following:

> "Prior to the initial diversion of water, the right holder shall submit to CDFW for written approval a College Lake water quality plan. The plan shall include appropriate lake water quality treatment measures, parameters, and water quality monitoring methodologies."

In October 2019, PV Water certified the *Final College Lake Integrated Resources Management Project Environmental Impact Report* (2019 EIR). The 2019 EIR identifies a potential for cyanobacteria blooms to occur in College Lake later in the summer if water of sufficient depth is present, given that the land uses in areas draining to College Lake are similar to those draining to nearby Pinto Lake where heavy cyanobacteria blooms have been documented in the past.[1] To mitigate this potential impact, the 2019 EIR stipulates implementation of the following measure:

> **Mitigation Measure HYD-2a: Water Quality Adaptive Management for College Lake**
>
> To learn about potential impacts of the Project on College Lake water quality and the quality of downstream water bodies, PV Water shall monitor College Lake water for indications of Cyanobacteria blooms. When the proposed weir crest is elevated to 62.5 feet NAVD88, PV Water shall monitor College Lake water temperature within the water column to establish whether a thermocline develops. PV Water shall use results of this monitoring to support the development of the Adaptive Management Plan (refer to Section 2.7 [of the 2019 Draft EIR]) that establishes management actions to minimize the conditions that can contribute to algal blooms, including cyanobacteria blooms, such that this impact is mitigated.

[1] Central Coast Regional Water Quality Control Board (CCRWQCB). 2015. *Progress Report to Support Development of Total Maximum Daily Loads Addressing Nutrients and Algal Toxins in Waterbodies of the Pinto Lake Catchment*, CCRWQCB, San Luis Obispo, CA.

This College Lake Water Quality Monitoring Plan has been prepared in response to the CDFW-requested protest dismissal term and the requirements of Mitigation Measure HYD-2a in the 2019 EIR.

1.2 Setting and Project Description

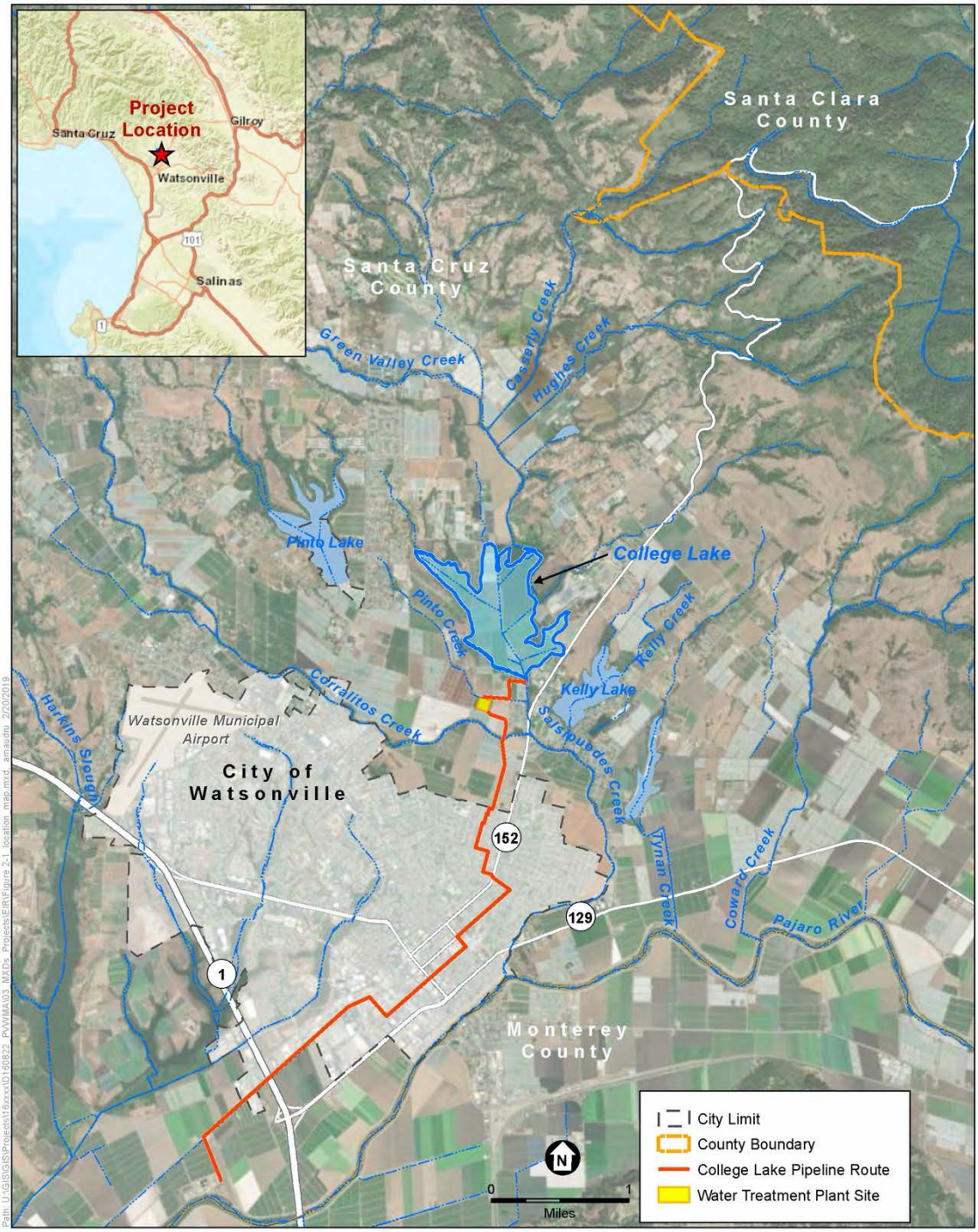
College Lake is a seasonal lake that forms in a topographic depression along the Zayante-Vergeles Fault zone. The lake receives inflows from several tributaries (including Green Valley, Casserly, and Hughes Creeks, shown on **Figure 1**) and drains into Salsipuedes Creek, which is a tributary to the Pajaro River. The College Lake watershed consists of approximately 11,000 acres of range, rural residential, and crop lands. Approximately 2,000 feet downstream of College Lake, surface water enters Salsipuedes Creek from Corralitos Creek. At times during the wet season, the flow direction in the reach of Salsipuedes Creek between College Lake and the Corralitos Creek confluence can reverse. When these conditions occur, surface water can flow from Corralitos and Salsipuedes creeks into College Lake. Flow magnitudes and directions in this reach of Salsipuedes Creek are controlled by several factors, including the water level of College Lake, the flow rate in Corralitos Creek, and the flow rate in Salsipuedes Creek downstream of the Corralitos Creek confluence. During wet years, surface water overflowing from Pinto Lake flows through a drainage channel (called Pinto Creek) into this reach of Salsipuedes Creek between College Lake and the Corralitos Creek confluence (**Figure 1**).

Under current conditions, Reclamation District 2049 (RD 2049) operates an existing weir and associated pump station located at the outlet of College Lake, which is at its south end. Flooding in and around College Lake occurs in association with wet weather events; during the wet season, water surface elevations regularly exceed the elevation of the existing weir (60.1 feet North American Vertical Datum of 1988 [NAVD88])). To allow summer farming in the lakebed, RD 2049 currently pumps water out of College Lake in the spring, usually beginning in mid-March, with each year's starting date depending on spring rain patterns. Pumping continues intermittently during the summer and fall as necessary to keep the lakebed dry while crops are growing. The purpose of the existing weir is to prevent water that is pumped from College Lake into Salsipuedes Creek from flowing back into the lake. Under existing RD 2049 operations, no water is pumped out of the lake for water supply purposes.

Under the Project, PV Water will construct a new adjustable weir to seasonally raise the controlled College Lake water surface level by up to 2.4 feet to an elevation of 62.5 feet NAVD88. Depending on water supply needs, PV Water will pump water from College Lake (either by direct diversions of water flowing into the lake or re-diversions of water previously stored in the lake) to a new water treatment plant. PV Water will convey the treated water through a new pipeline to its existing Coastal Distribution System (CDS) for deliveries to farmers who will use the water for irrigation in lieu of pumping equivalent amounts of groundwater.

1.3 Adaptive Management Plan

The 2019 EIR incorporates mitigation measures previously adopted by PV Water's Board of Directors under the 2014 Basin Management Plan (BMP) Update Programmatic EIR. Mitigation Measure BIO-2i.1 (Develop Adaptive Management Plan for College Lake Waterfowl Management and Multi-Species Mitigation) was included in the *Final Environmental Impact Report for the Basin Management Plan Update* (2014 BMP Update PEIR) in response to public comment. PV Water is committed to preparing an Adaptive Management Plan (AMP) as part of the College Lake Project, as outlined below:



SOURCE: Carollo Engineers, 2017; ESRI World Imagery, 7/23/2016; ESA

College Lake Integrated Resources Management Project

Figure 1
Project Location Map

ESA

BIO-2i.1: Develop Adaptive Management Plan for College Lake Waterfowl Management and Multi- Species Mitigation. To mitigate impacts to existing waterfowl or waterfowl habitat at College Lake, an Adaptive Management Plan for waterfowl management and multi-species mitigation will be developed with the consultation of the state and federal resource agencies and College Lake stakeholders. The Adaptive Management Plan for waterfowl management and multi-species mitigation at College Lake will develop multi-year baseline waterfowl population and habitat use data for future project design, environmental permitting and CEQA impact analysis of project-level alternatives. To the extent practical, it will integrate the results of ongoing College Lake hydrology and hydraulic analyses, as well as future consultations with state and federal agencies on fish flows and fish bypass criteria.

The Management Plan will be specific to the level of impact and mitigations under site-specific and project implementation conditions. However, the following standards will apply as defined during project-level design, regulatory review and CEQA analysis: The Management Plan should include terms and conditions from applicable permits and agreements as appropriate and define provisions for monitoring assignments, scheduling, and responsibility. The Management Plan should also include habitat replacement and revegetation, protection during ground-disturbing activities, performance standards, maintenance criteria, and monitoring requirements for temporary and permanent impacts consistent with mitigation in this EIR and regulatory requirements during project- specific review. The Management Plan will be in conformance with the biology mitigation measures from this EIR, and will also include terms and conditions consistent regulatory requirements as applicable from the USFWS, USACE, SWRCB, and CDFW permits during project design and permitting as applicable. The Management Plan will be prepared for project level project implementation as determined needed through future CEQA review and consultation with agencies as required under CESA and ESA.

Adaptive management is defined as "a framework and flexible decision-making process for ongoing knowledge acquisition, monitoring, and evaluation leading to continuous improvements in management planning and implementation of a project to achieve specified objectives."[2] An adaptive management approach provides a structured process that allows for taking action under uncertain conditions based on the best available science, closely monitoring and evaluating outcomes, and re-evaluating and adjusting decisions as more information is learned.[3] Adaptive management encourages an ecosystem-level approach to resource management and promotes collaboration among scientists, managers, and other stakeholders on decisions. To be effective, that decision-making processes must be flexible enough to adjust in the face of uncertainties, variances or other unforeseen outcomes from management actions and other external events. With an established AMP, the project will be set up to use tools such as monitoring, modeling, or other applied studies to generate the science-based information that managers need for decision-making. Once this information is available, managers can "Adapt" a project. If needed, possible adaptive management actions include additional studies or monitoring and corrective on-the-ground actions. It is imperative when approaching a project with significant uncertainties, that all stages of the "Plan" phase are open to adaptive management consideration.

In response to environmental review and permitting requirements, the College Lake Project is generating several plans that are related to adaptive management. These include this water quality monitoring plan, a steelhead (*Oncorhynchus mykiss*) monitoring plan, an invasive species management plan, an operations and maintenance

2 2011 California Water Code, Division 35. Sacramento-San Joaquin Delta Reform Act of 2009, Chapter 4, Section 85052.

3 California Department of Fish and Wildlife, Adaptive Management. Available online at https://www.dfg.ca.gov/erp/adaptive_management.asp. Accessed on August 6, 2019.

(O&M) plan, and a water right compliance plan. All of these plans have a role in the project process and will need to be comprehensively considered in the adaptive management process. The intention is for the AMP to serve as an umbrella document where the data and information generated by these various elements can be evaluated holistically in the context of the project objectives. The AMP therefore will become a critical process document and serve as the central organizing "spine" of most of the other plans, including this water quality monitoring plan. Most of these plans will already be complete prior to the development of the AMP. As such, the AMP will include a feedback process to each of those plans to account for any future management decisions that have the potential to ripple through various other documents. Since these other plans are driven largely by the regulatory process, the AMP will have to account for a process by which stakeholder education and feedback are incorporated back into those plans through the adaptive management process if warranted. For example, if data collected during implementation of this water quality monitoring plan indicate that a parameter exceeds a certain pre-determined threshold, it may trigger an adaptive management action such as source identification, targeted treatment, or perhaps a direct change in water management. Conversely, the management action may then necessitate additional/refined water quality monitoring. PV Water would be responsible for reporting action triggers and implementing management actions based on these triggers as part of the development of the AMP. In short, this water quality monitoring plan is intended to feed science-based data and information into the adaptive management decision-making process, which may include, among others, adaptively managed changes to this monitoring plan itself.

CHAPTER 2
Monitoring Plan Design

2.1 Existing PV Water Surface Water Monitoring

PV Water has been collecting water quality data in College Lake since 1994. PV Water's current monitoring program includes bimonthly (i.e., every two months) grab samples collected at the College Lake pumphouse located immediately upstream of the existing weir and monthly sampling when accessible (approximately spring through fall) collected at another College Lake site (added to the program in May 2019), located approximately 800 feet upstream of the pumphouse. Samples are submitted to an Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis of the constituents listed in **Table 1**. Since 2012, PV Water has also been operating a pressure transducer data logger at the pumphouse site to collect continuous (15-minute interval) pressure, depth, water temperature, actual conductance, and specific conductance data. At the upstream sampling site, the monthly grab sample data is currently augmented by biweekly (i.e., every two weeks) field measurements of water temperature, dissolved oxygen (DO), specific conductance, turbidity, and hydrogen ion concentration (pH).

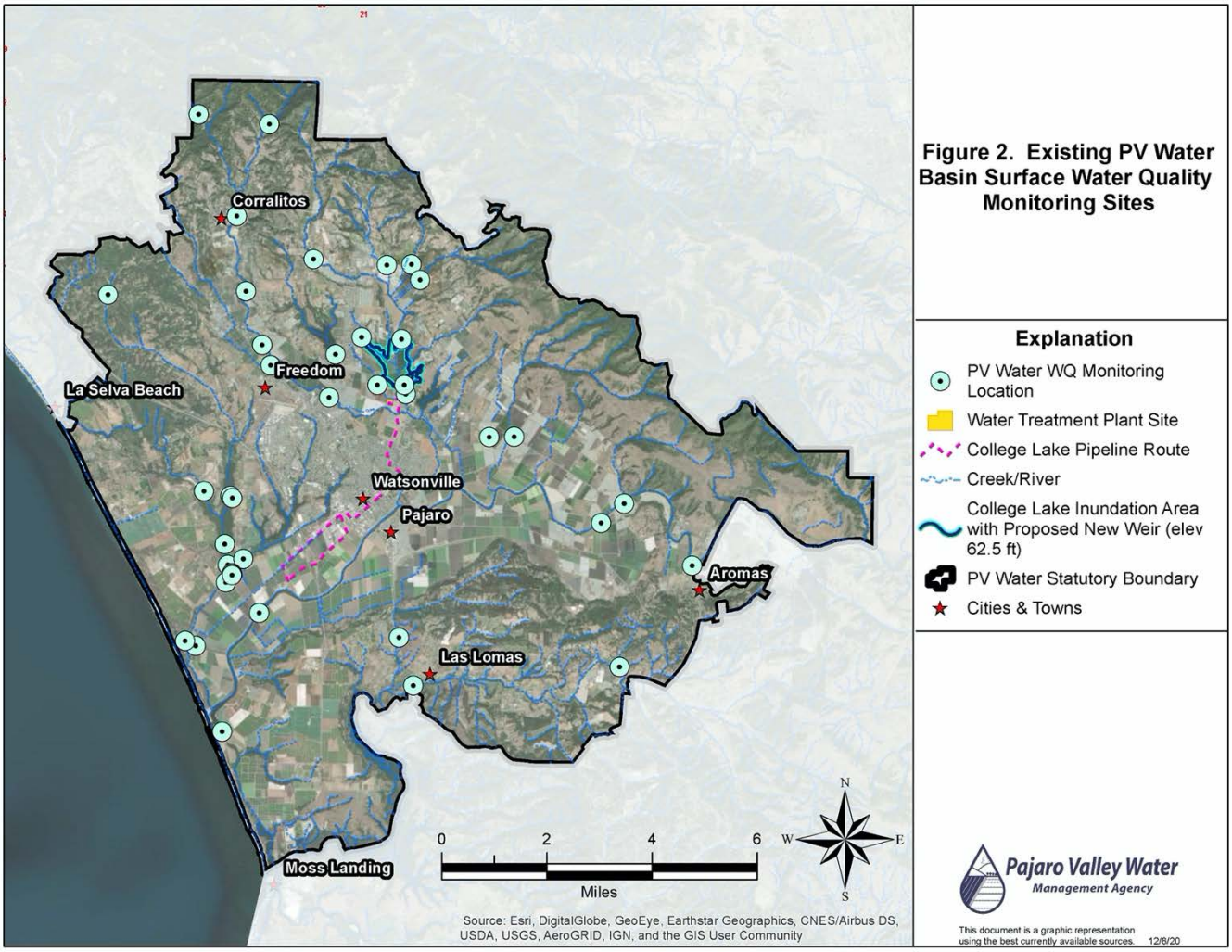
In addition to the two College Lake sampling sites, PV Water also conducts bimonthly (i.e., every two months) water quality monitoring for the majority of constituents listed in Table 1 in a number of College Lake inflow tributaries, including Green Valley, Casserly, and Hughes creeks, as well as other sites within the Pinto Lake and Corralitos Creek sub-basins that may contribute surface water inflows to College Lake during certain backflow conditions (i.e., when Corralitos Creek flows are high). **Figure 2** depicts the sampling locations of PV Water's current basin-wide water quality monitoring program.

As part of the planning process for the Project, PV Water conducted a study in 2017 to characterize the lake water quality for the conceptual design of the College Lake treatment plant. While the study was mostly based on historical water quality data collected by PV Water, grab samples were collected and analyzed for algae and algal toxins. In April, May, and July 2017, cyanobacteria were present in College Lake in low concentrations and none of the toxins analyzed (microsystins, anatoxin-a, cylindrospermopsin) were detected. However, during a visual bloom on September 13, 2017, the sample contained 1,130 cyanobacteria cells per milliliter (#/ml), but again none of the toxins analyzed were detected. For reference, cyanobacteria concentrations of more than 100,000 cells per ml have been measured in nearby Pinto Lake.

TABLE 1

COLLEGE LAKE WATER QUALITY CONSTITUENTS CURRENTLY MONITORED BY PV WATER

Constituent	Methodology		Units
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	Alkalinity, Total (as CaCO3)
Anion-Cation Balance	Calculation		%
Bicarbonate (as HCO3-)	SM2320B		mg/L
Boron	EPA200.7		mg/L
Bromide	EPA300.0	mg/L	Bromide
Calcium	EPA200.7	mg/L	Calcium
Carbonate as CaCO3	SM2320B	mg/L	Carbonate as CaCO3
Chloride	EPA300.0	mg/L	Chloride
Fluoride	EPA300.0	mg/L	Fluoride
Hardness (as CaCO3)	SM2340B/Calc	mg/L	Hardness (as CaCO3)
Langlier Index, 15°C	SM2330B		NA
Langlier Index, 60°C	SM2330B	NA	Langlier Index, 60°C
Magnesium	EPA200.7	mg/L	Magnesium
Nitrate as N	EPA300.0	mg/L	Nitrate as N
Nitrate+Nitrite as N	EPA300.0	mg/L	Nitrate+Nitrite as N
Nitrite as N	EPA300.0	mg/L	Nitrite as N
Orthophosphate as P	EPA300.0	mg/L	Orthophosphate as P
pH (Laboratory)	SM4500-H+B	pH (H)	pH (Laboratory)
Potassium	EPA200.7	mg/L	Potassium
QC Anion Sum x 100	Calculation	%	QC Anion Sum x 100
QC Cation Sum x 100	Calculation		%
QC Ratio TDS/SEC	Calculation	NA	QC Ratio TDS/SEC
SAR (Sodium Adsorption Ratio)	Suarez, 1981		NA
SAR, Adjusted	Suarez, 1981		NA
Sodium	EPA200.7	mg/L	Sodium
Specific Conductance (EC)	SM2510B	µmhos/cm	Specific Conductance (EC)
Sulfate	EPA300.0	mg/L	Sulfate
Total Dissolved Solids	SM2540C		mg/L
Total Suspended Solids	SM2540D	mg/L	Total Suspended Solids
Turbidity	EPA180.1	NTU	Turbidity



2.2 Monitoring Plan Goals and Objectives

Seasonal hydrology, lake management, and surrounding land uses can affect water quality in lakes. College Lake has been actively managed for agricultural production for a century, and farming will continue to occur on surrounding lands. Implementation of the Project will alter the existing hydrologic regime of College Lake, primarily during the summer and fall when the lake will be operated for water supply storage and diversion rather than agricultural production, thereby extending the duration, extent, and depth of lake inundation compared to existing (mostly dry) summer and fall conditions. Although PV Water has been collecting water quality data from the in-lake drainage channel during the summer and fall period, the lakebed has not been inundated during the dry season for approximately 100 years[4], and baseline water quality data are therefore not available for such conditions. Therefore, it will be necessary to establish a new summer/fall water quality baseline for College Lake.

[4] RD 2049 was formed in 1920 and was granted express legal authority under State law (California Water Code Section 50000 et. seq.) to pump water from College Lake to reclaim the land for agricultural production.

The goals of this plan are to develop a program for monitoring water quality in and around College Lake to (1) conform with EIR Mitigation Measure HYD-2a and the CDFW water right protest dismissal term, (2) contribute to an understanding of the evolution of aquatic habitat conditions under a new management and hydrologic regime, and (3) generate data and insights that will support the adaptive management decision-making process.

The primary objectives of the College Lake Water Quality Monitoring Plan are to:

(1) determine if and how the water quality characteristics of the lake are affected by PV Water's implementation of the College Lake Integrated Resources Management Project (i.e., seasonally deeper lake, extended inundation period);

(2) evaluate the temporal and spatial suitability of the lake's water quality for biological resources (e.g., fish and wildlife) during target seasons (e.g., winter, spring) under Project operations; and

(3) establish whether a thermocline and/or other conditions conducive to potential cyanobacteria blooms develop in the lake.

These objectives will be met through routine sampling (grab sampling) and continuous measurements (sonde deployment) and analysis of surface water quality parameters at selected sites to capture spatial (upstream, downstream, and within College Lake) and temporal (annual, seasonal, rainfall-driven) trends in water quality.

During the initial 3-5 years of Project operations, a broad monitoring protocol will be implemented to develop a thorough understand of spatial and temporal variabilities in water quality parameters throughout the lake, particularly during the summer and fall storage and diversion period. Depending on the results obtained during this initial period, the scope of the monitoring program may later be reduced or otherwise modified. For example, if data indicate relatively homogenous conditions throughout the lake, a reduction in the number of data collection sites and/or events may be considered through the AMP.

2.3 Monitoring Parameters

The focus of PV Water's existing monitoring program is to track water quality to ensure suitability for water supply and distribution. However, the program already includes a number of parameters (e.g., temperature, turbidity, pH, etc.) that are also relevant to seasonal habitat suitability for fish and wildlife species. In addition, sampling for nitrate and orthophosphate under the existing monitoring program allows PV Water to monitor whether concentrations of these constituents approach levels that may promote toxic algal blooms such as those documented to occur in nearby Pinto Lake.[5] PV Water's extensive existing program therefore provides a strong foundation for the College Lake Water Quality Monitoring Plan. This College Lake Water Quality Monitoring Plan adopts portions of the existing monitoring program that are directly relevant to College Lake such as in-lake and source tributary sampling sites and parameters, and expands upon those with additional parameters related to cyanobacteria bloom monitoring, as well as additional sampling sites, frequencies (see Section 2.4), and sampling methods (i.e., additional continuous sonde deployments). Components of the existing basin-wide monitoring

[5] Central Coast Regional Water Quality Control Board (CCRWQCB). 2015. *Progress Report to Support Development of Total Maximum Daily Loads Addressing Nutrients and Algal Toxins in Waterbodies of the Pinto Lake Catchment*, CCRWQCB, San Luis Obispo, CA.

program that are not specifically included in this College Lake Water Quality Monitoring Plan remain discretionary to PV Water.

Parameters selected for this College Lake Water Quality Monitoring Plan include periodic grab sampling of the constituents listed in Table 1 as well as algal identification/enumeration and cyanotoxins listed in Table 2. In addition to periodic grab sampling, additional sondes will be deployed in-lake for continuous sampling of depth, water temperature, dissolved oxygen, specific conductance, pH, chlorophyll-a, and phycocayanin. Monthly profile sampling of water temperature, dissolved oxygen, specific conductance, chlorophyll-a, and water clarity (Secchi depth) will alos be conducted. Sampling locations and frequencies are described in Section 2.4 below and summarized in Table 3.

TABLE 2

ADDITIONAL CONSTITUENTS FOR COLLEGE LAKE WATER QUALITY MONITORING PLAN

Constituent	Methodology	Units
Algal identification and enumeration	Microscopy	#/ml
Microcystins, total	EPA Method 546	mg/L
Anatoxin-a	EPA Method 545	mg/L
Cylindrospermopsin	EPA Method 545	mg/L

2.4 Monitoring Locations and Frequency

Sampling locations for the College Lake Water Quality Monitoring Plan were selected based on (a) in-lake and source inflow sites currently sampled by PV Water, (b) an additional in-lake site to assess spatial variability, (c) additional in-lake sonde deployment to assess vertical variability, and (d) an outflow sampling site downstream of the new weir to monitor potential effects of lake water quality on downstream waterways (i.e., Salsipuedes Creek and Pajaro River). In total, the monitoring program consists of six sampling sites: Two in-lake sites (CL1 and CL2), three inflow sites (CA2W, CA2E, PLO)[6], and one outflow site (SA1). Sampling site locations are depicted in **Figure 3**.

Grab samples for analysis of Table 1 constituents will be collected at monthly intevals at all six sampling sites when surface water is present, as well as during or immediatley following the first runoff event of the season (i.e., first flush sampling). In parallel, grab samples for the parameters listed in Table 2 will be collected at the in-lake (CL1 and CL2) and outflow (SA1) sites. Field equipment will be used to measure water temperature, DO, and specific conductance concurrent with grab sample collection.

Multi-parameter sondes for continuous (i.e., hourly) measurements of water temperature, DO, and specific conductance will be deployed at the two in-lake sites (CL1 and CL2). At each sampling site, a pair of sondes will be deployed to assess vertical variability and potential stratification: one approximately 0.5 ft below the water surface (i.e., attached to floating buoy) and one approximately 0.5 ft above the lake bottom. In addition, the surface sondes will also be fitted with chlorophyll-a and phycocyanin sensors to support characterization of

[6] Note that existing inflow sampling site CA2E is located on Casserly Creek downstream of the Green Valley Creek and Hughes Creek confluences and is therefore representative of cumulative water quality conditions entering the lake. Water quality monitoring at existing sampling locations within each of the main upper watershed tributaries will continue as part of PV Water's existing basinwide monitoring program.

potentially harmful algal bloom conditions. The continuous monitoring sondes will be operated year-round unless the lake water surface elevation at the individual sonde location falls below the elevation of individual sondes during lake drawdown or sondes have to be removed temporarily to protect them from damage (e.g., major storm events). Deployment of top and bottom sondes will allow for increased resolution of temporal (e.g., diel, ambient weather, etc) and spatial variability to augment potential stratification information derived from monthly profiles. Should sonde data prove superfluous after a few initial (3-5) years of operation (e.g., no evidence of thermocline), the bottom sondes may be considered for elimination from the monitoring program through the AMP process.

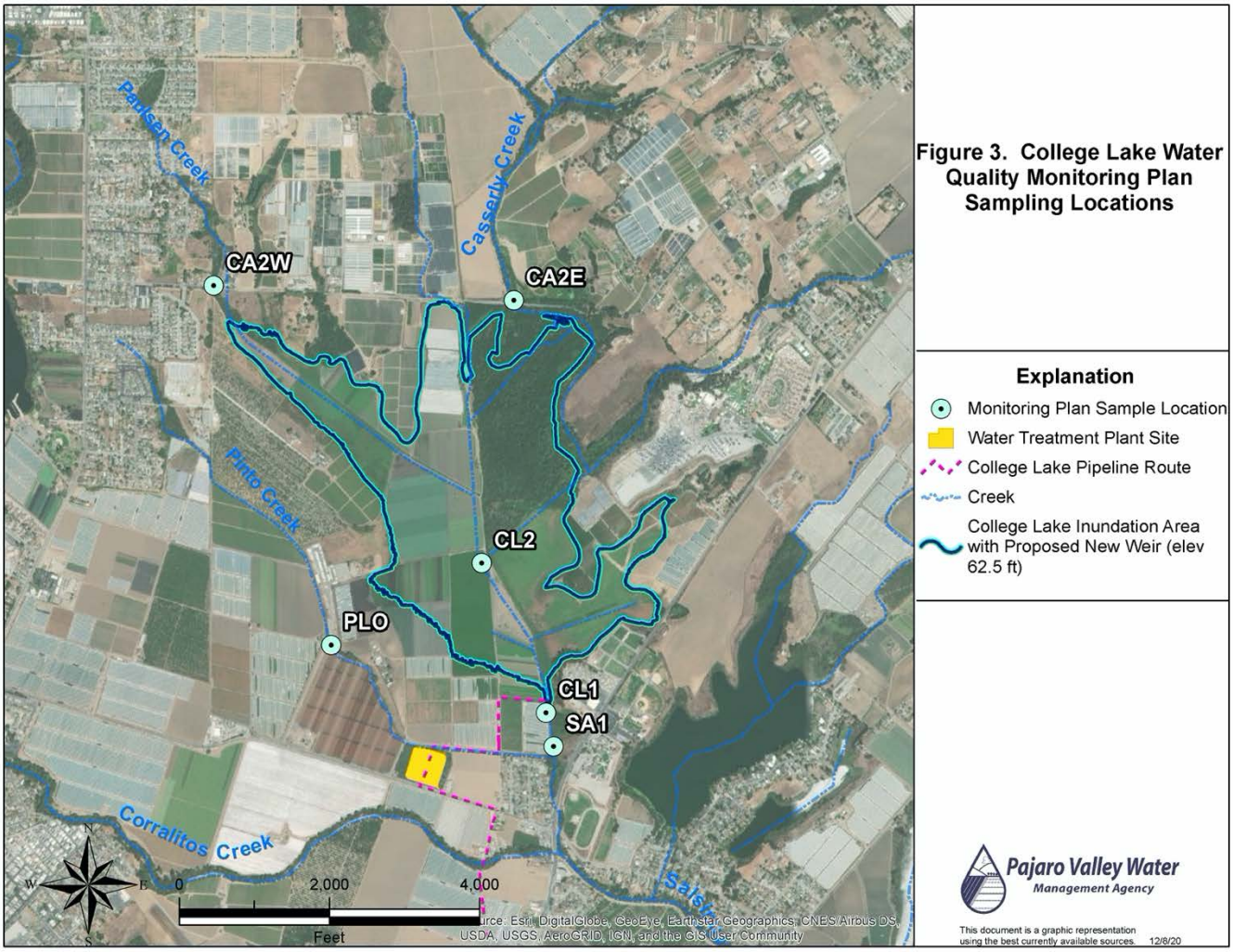
Vertical-profile measurements of water temperature, DO, specific conductance, chlorophyll-a, and water clarity (Secchi depth) will be conducted at monthly intervals at the two in-lake sampling locations using multi-probe field instruments and a Secchi disk. The vertical profile measurements will be conducted at 1-foot depth intervals concurrent with the monthly grab sampling of Table 1 and Table 2 constituents.

The sampling parameters and frequencies for each monitoring location are summarized in **Table 3**. Each monthly sampling event will occur at approximately the same time of day.

TABLE 3

WATER QUALITY MONITORING SITES, PARAMETERS, AND FREQUENCIES

Source	Sampling Site	Parameter	Sampling Method	Frequency
College Lake (at weir)	CL1 (existing site)	Table 1 (existing) Table 2	Grab	Monthly + First Flush
		Temp, DO, Conductance, Depth, Chlorophyll-a, Phycocyanin	Surface sonde	Continuous
		Temp, DO, Conductance	Bottom sonde	Continuous
		Temp, DO, Conductance, Chlorophyll-a, Clarity (Secchi depth)	1 ft vertical profiles	Monthly
College Lake (mid-lake)	CL2 (new site)	Table 1 (existing) Table 2	Grab	Monthly + First Flush
		Temp, DO, Conductance, Depth, Chlorophyll-a, Phycocyanin	Surface sonde	Continuous
		Temp, DO, Conductance	Bottom sonde	Continuous
		Temp, DO, Conductance, Chlorophyll-a, Clarity (Secchi depth)	1 ft vertical profiles	Monthly
College Lake Inflow	CA2W, CA2E, PLO (existing sites)	Table 1 (existing)	Grab	Monthly + First Flush
College Lake Outflow	SA1 (new site)	Table 1 (existing) Table 2	Grab	Monthly + First Flush



2.5 Sampling and Analysis Methodologies

2.5.1 Field Measurement Methods

Field measurements will be collected in situ using a multi-parameter water quality meter with probes to record water temperature, DO, and specific conductance in accordance with CDFW's Standard Operating Procedure (SOP) for the *Collections of Water and Bed Sediment Samples with Associated Field Measurements and Physical Habitat in California*.[7] Manufacturer's instructions for instrument setup, calibration, and sample collection will be followed. Ambient data such as date, time, weather conditions (e.g., cloud cover), and air temperature will also be recorded. Depending on sampling location and ambient conditions, samples will be collected from a small boat, wading, or from shore using a pole sampler. During vertical profiling at in-lake sampling sites, probes will be maintained at each sampling depth until readings stabilize. Field measurement instruments will be serviced

[7] California Department of Fish and Wildlife (CDFW). 2014. *Collections of Water and Bed Sediment Samples with Associated Field Measurements and Physical Habitat in California*, Version 1.1 updated March-2014, Surface Water Ambient Monitoring Program, Marine Pollution Studies Laboratory – Department of Fish and Wildlife.

regularly in accordance with manufacturer specifications. Measurement results will be recorded on data sheets and electronically stored on the meter until data is transferred to computer spreadsheet software. Multi-parameter sondes will be downloaded, checked, cleaned, and calibrated on a monthly basis in accordance with manufacturer instructions.

To ensure sampling crew safety during high streamflow events at the lake inflow and outflow sites, extendable dipsticks will be used to collect samples from a distance of up to 16 feet. If conditions are unsafe even for dipstick sample collection, staff will wait for peak flows to pass and sample during receding flows.

2.5.2 Sample Collection for Laboratory Analyses

Surface water samples will be analyzed for the parameters shown in Tables 1 and 2. Grab samples will be collected in accordance with the CDFW SOP for the *Collections of Water and Bed Sediment Samples with Associated Field Measurements and Physical Habitat in California*[8] using laboratory-approved containers appropriate for the analyte and analytical method requirements of the laboratory. Sample bottles (i.e., container type, sample volume, preservative requirements) and holding time until analysis will be provided by the contracted laboratory.

2.5.3 Laboratory Analyses

Water samples will be submitted to a California Environmental Laboratory Accreditation Program (ELAP) ELAP-accredited analytical laboratory within the specified holding time and temperature. ELAP-certified analytical methods, including appropriate detection limits and reporting accuracy, will be applied by the California ELAP-accredited laboratory.

The approved laboratory will perform industry-accepted quality control measures to maintain the analytical testing process within acceptable limits of accuracy and precision. Method blanks, laboratory control samples, second source samples, matrix spikes, duplicates, and replicates will be utilized and analyzed as applicable for each parameter. Quality control requirements for each analytical technique will be provided by the approved laboratory and included in the annual College Lake Water Quality Monitoring Program reports.

2.6 Reporting Procedures

Field and laboratory data from the six sampling sites will be synthesized, analyzed, and reported annually. The analysis will include spatial and temporal comparisons of water quality data and possible sources (e.g., inflows, management practices) of any water quality changes observed. Monitoring results will be compared to relevant habitat suitability thresholds, toxicity thresholds, and Central Coast Regional Water Quality Control Board (CCRWQCB) Basin Plan and Total Maximum Daily Load (TMDL) objectives, where applicable. Site-specific performance criteria will be developed through the AMP process to evaluate whether objectives are being achieved.

[8] California Department of Fish and Wildlife (CDFW). 2014. *Collections of Water and Bed Sediment Samples with Associated Field Measurements and Physical Habitat in California*, Version 1.1 updated March-2014, Surface Water Ambient Monitoring Program, Marine Pollution Studies Laboratory – Department of Fish and Wildlife.

Given the lack of baseline data directly applicable to future conditions in College Lake under the Project, it is likely that too little data will be available in the first few years to make statistically significant assessments of the results. However, as the datasets grow over several years, confidence in the analysis should increase.

An annual report will describe monitoring efforts over the prior hydrologic year (October 1 – September 30) and will be submitted to CDFW, CCRWQCB, and National Marine Fisheries Service (NMFS) by February 1 of the following year. If requested, raw data collected during monthly in-lake profile measurements will be provided to CDFW, CCRWQCB, and NMFS staff within 7 days of sample collection.

CHAPTER 3
Response Actions

As described in Section 1.3 above, College Lake and the Project will be managed adaptively through an AMP. The AMP will serve as an umbrella document where the data and information generated by various monitoring efforts, including the water quality monitoring program, can be evaluated holistically in the context of the project objectives. The AMP will provide a set of objectives and an associated set of monitored parameters. The AMP will also define thresholds for the monitored parameters that when exceeded would require management actions (i.e., action triggers). The exact management action will depend on the nature of the problem and the appropriate remedies available. Typically, the first management action will be to conduct a thorough review of the available information that can inform project managers regarding the applicability of various actions. Often, technical experts (both associated with and external to the project, as warranted) will be consulted before taking a management action to analyze the relevant information and provide a range of appropriate management actions, including their risks and costs.

Within the context of the AMP, the annual report (Section 2.6) for this water quality monitoring program will provide the values of monitored parameters to be compared to the values of the action triggers, related discussions of the potential reasons for any threshold exceedences and, if warranted, will make recommendations for potential remedial response action for consideration by PV Water and regulatory stakeholders (CDFW, CCRWQCB, NMFS) through the adaptive management process. Depending on the source of the adverse conditions (e.g., lake inflows vs. project operations), PV Water will identify feasible response actions. For example, if lake inflows are found to contain high concentrations of nutrients, PV Water may propose to conduct outreach to upstream landowners to discuss potential remedial actions. If adverse conditions are determined to be the direct cause of lake management practices, PV Water will coordinate with regulatory stakeholders to identify potential response actions that are consistent with Project needs and objectives. It should be noted that some water quality conditions that are typically considered adverse (e.g., high summer water temperatures) are fully expected to occur in this broad, shallow lake and would not require response actions.

CDFW's water right protest dismissal term requests that the College Lake Water Quality Monitoring Plan include "appropriate lake water quality treatment measures". As noted previously, College Lake has not been inundated during the summer and fall for approximately 100 years under current management practices. As such, insufficient data is currently available to allow for meaningful predictions of potential water quality concerns that may arise or how to treat them if they do arise. For example, cyanobacterial blooms that have occurred in nearby Pinto Lake in the past have been successfully treated with aluminum sulfate.[9] However, incorporating a treatment recommendation based on Pinto Lake experiences into this College Lake Water Quality Monitoring Plan prior to implementation of the Project and associated water quality monitoring would be premature as significant difference in Pinto Lake conditions (perennially wetted) and future College Lake conditions (seasonally dry)

[9] Central Coast Regional Water Quality Control Board (CCRWQCB). 2015. *Progress Report to Support Development of Total Maximum Daily Loads Addressing Nutrients and Algal Toxins in Waterbodies of the Pinto Lake Catchment*, CCRWQCB, San Luis Obispo, CA.

could potentially affect treatment effectiveness. Instead, PV Water would outline potential response action alternatives in the annual monitoring reports for consideration by AMP stakeholders, including CDFW, CCRWQCB, and NMFS. In the case of the cyanobacteria bloom example above, such a recommendation may include coordination with the California Cyanobacteria and Harmful Algal Bloom Network (CCHAB), a statewide interagency workgroup assembled to work towards the development and maintenance of a comprehensive, coordinated program to identify and address the causes and impacts of cyanobacteria and harmful algal blooms, to evaluate site-specific College Lake treatment options.

In addition to applying the holistic, ecosystem-level approach of the AMP to resolving potential water quality concerns, the feedback loop aspect of adaptive management may lead to recommendations for modifications to the College Lake Water Quality Monitoring Program itself. For example, the frequency of sample collection may be increased for greater temporal resolution, or parameters may be added to fill data gaps. Conversely, parameters or sampling sites that prove superfluous over time may be eliminated.

PV Water
Quarterly Billing Summary
Calendar Year

Type	2023 Consumption(AF)	2023 Dollar	2024 Consumption(AF)	2024 Dollar
March Billing				
Inside Delivered Water Zone	156.974	$ 61,376.95	213.271	$ 89,747.71
Metered	1,173.059	$ 331,550.32	1,178.870	$ 356,559.33
Non-Metered (agriculture)	4.419	$ 1,162.10	0.000	$ -
Delivered	153.311	$ 66,230.54	201.106	$ 91,302.08
Aromas	46.450	$ 13,098.90	49.040	$ 14,810.08
Cal Water	46.810	$ 13,200.42	46.990	$ 14,190.98
City of Watsonville	1,193.000	$ 336,426.00	1,203.000	$ 363,306.00
Vega Mutual	6.880	$ 1,940.16	7.310	$ 2,207.62
Pajaro/Sunny Mesa	63.620	$ 17,940.84	59.260	$ 17,896.52
Non-Metered (rural residential)	0.000	$ -	0.000	$ -
Subtotal	2,844.524	$ 842,926.23	2,958.847	$ 950,020.32
	Uncollected Amt a/o 4/30/23	**$ 546,664.85**	**Uncollected Amt a/o 4/30/24**	**$ 130,673.43**
	Percent of Uncollected Billing	**64.853%**	**Percent of Uncollected Billing**	**13.755%**
June Billing				
Inside Delivered Water Zone	988.568	$ 386,530.03	1,203.139	$ 505,318.18
Metered	5,370.219	$ 1,514,401.91	5,805.235	$ 1,753,180.87
Non-Metered (agriculture)	194.603	$ 54,877.99	179.532	$ 54,218.73
Delivered	902.456	$ 389,861.00	1,033.149	$ 469,049.45
Aromas	56.660	$ 15,978.12	55.940	$ 16,893.88
Cal Water	55.440	$ 15,634.08	54.650	$ 16,504.30
City of Watsonville	1,396.000	$ 393,672.00	1,418.000	$ 428,236.00
Vega Mutual	12.650	$ 3,567.30	71.290	$ 21,529.58
Pajaro/Sunny Mesa	53.740	$ 15,154.68	8.790	$ 2,654.58
Subtotal	9,030.336	$ 2,789,677.11	9,829.724	$ 3,267,585.58
Annual Rural Residential				
Consumption	1,279.50	$ 314,757.00	1,285.00	$ 339,240.00
Subtotal	10,309.84	$ 3,104,434.11	11,114.72	$ 3,606,825.58
	Uncollected Amt a/o 7/31/23	**$ 1,009,774.61**		
	Percent of Uncollected Billing	**32.527%**		
September Billing				
Inside Delivered Water Zone	2,658.524	$ 1,039,482.83		
Metered	12,417.249	$ 3,501,664.30		
Non-Metered (agriculture)	0.000			
Delivered	2,006.381	$ 866,756.45		
Aromas	96.360	$ 27,173.52		
Cal Water	68.740	$ 19,384.68		
City of Watsonville	1,728.000	$ 487,296.00		
Vega Mutual	13.690	$ 3,860.58		
Pajaro/Sunny Mesa	88.190	$ 24,869.58		
Non-Metered (rural residential)	5.000	$ 1,230.00		
Subtotal	19,082.134	$ 5,971,717.95	0.000	$ -
	Uncollected Amt a/o 10/31/23	**1,731,424**		
	Percent of Uncollected Billing	**28.994%**		
December Billing				
Inside Delivered Water Zone	1,379.463	$ 539,370.22		
Metered	5,753.028	$ 1,622,353.86		
Non-Metered (agriculture)	184.278	$ 51,966.35		
Delivered	1,236.043	$ 533,970.65		
Aromas	76.560	$ 21,589.92		
Cal Water	64.560	$ 18,205.92		
City of Watsonville	1,546.000	$ 435,972.00		
Vega Mutual	11.400	$ 3,214.80		
Pajaro/Sunny Mesa	80.270	$ 22,636.14		
Non-Metered (rural residential)	1.500	$ 369.00		
Subtotal	10,333.102	3,249,648.85	0.000	0.00
	Uncollected Amt a/o 1/31/24	**845,214**	**0.00**	
	Percent of Uncollected Billing	**26.009%**		
Total	**42,569.60**	**13,168,727.14**	**14,073.57**	**4,556,845.89**

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PAJARO VALLEY WATER MANAGEMENT AGENCY

Account Activity Report per Bank Statement

	Date	Deposits	Withdrawals	Balance
CLEARING ACCOUNT - Mechanics				
Beginning Balance	5/1/2024			$60,811
Cash Receipts				
Disbursements			3,491,013	
Transfers		6,768,680		
Bank Fees				
Ending Balance	5/31/2024			$3,338,479
GENERAL FUND10-MMA Mechanics				
Beginning Balance	5/1/2024			$1,679,618
Cash Receipts		139,273		
Transfers			12,765	
Interest Earned		6,325		
Bank Fees				
Ending Balance	5/31/2024			$1,812,452
GENERAL FUND 10 - LAIF				
Beginning Balance	5/1/2024			$2,314,317
Transfers				
Interest Earned				
Ending Balance	5/31/2024			$2,314,317
GENERAL FUND 20 - LAIF				
Beginning Balance	5/1/2024			$8,498,230
Transfers				
Interest Earned				
Ending Balance	5/31/2024			$8,498,230
SPECIAL REVENUE FUND 20-ACH Clearing Acct Mechanics				
Beginning Balance	5/1/2024			$0
Cash Receipts				
Sweep/Transfers				
Disbursments/ACH-Wire				
Bank Fees				
Ending Balance	5/31/2024			$0
SPECIAL REVENUE FUND 20-Operating Mechanics				
Beginning Balance	5/1/2024			$4,681
Cash Receipts		3,321,599		
Transfers		1,900,000	5,217,952	
Disbursments/ACH-Wire			0	
Bank Fees			2,701	
Interest Earned				
Ending Balance	5/31/2024			$5,627
SPECIAL REVENUE Fund 20 Cash Mgmt-FUND20MMN Mechanics				
Beginning Balance	5/1/2024			$8,610,569
Transfers		140,000	3,577,964	
Disbursments/ACH-Wire				
Bank Fees				
Interest Earned		26,029		
Ending Balance	5/31/2024			$5,198,635
BNY Mellon Construction Fd - 2023 Certificates of Participation				
Beginning Balance	5/1/2024			$195
Transfers				
Interest Earned				
Ending Balance	5/31/2024			$195
Certificate of Deposit - DWR Loan Reserve Mechanics Fund 40				
Beginning Balance	5/1/2024			$267,527
Interest Earned		1,067.00		
Ending Balance	5/31/2024			$268,594
Certificate of Deposit - SRF-D1501023				
Beginning Balance	5/1/2024			$78,559
Transfers				
Interest Earned		0.00		
Ending Balance	5/31/2024			$78,559

Prior Month Ending Cash Balance:	Total Deposits:	Total Withdrawals:	Month End Cash Balance:
21,514,506	12,302,973	12,302,395	21,515,085
Cash Transfers	8,808,680	8,808,680	-
Actual Cash Receipts/Disbursements	3,494,293	3,493,715	

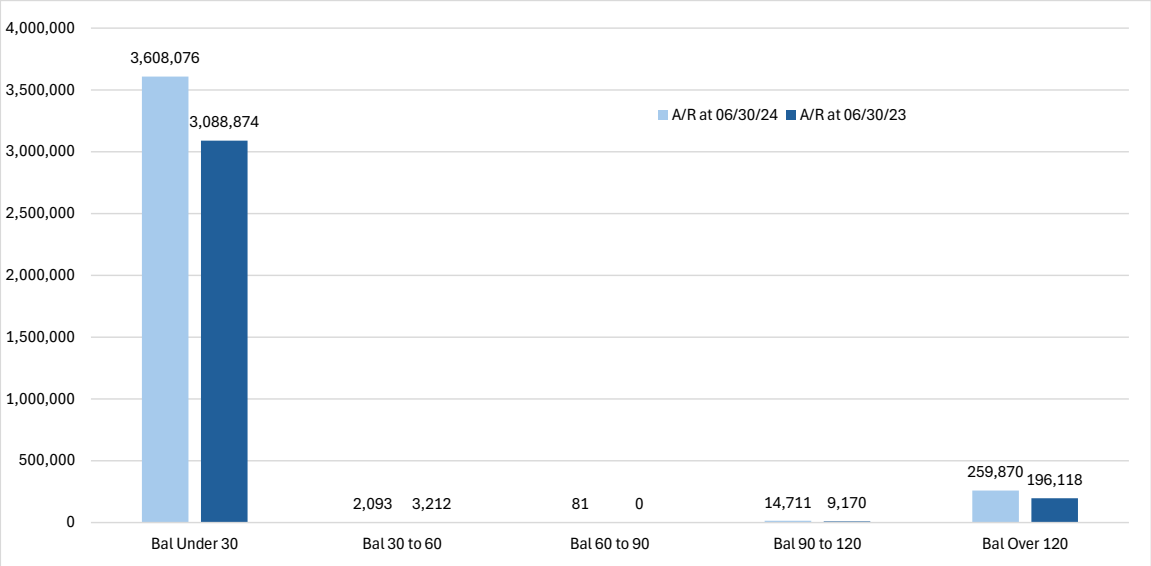
PAJARO VALLEY WATER MANAGEMENT AGENCY
INVESTMENT REPORT
ALL FUNDS
May 31, 2024

Description	Current Yield	Investment	% of Total Portfolio	Weighted Yield
Mechanics Clearing Account	0.00%	**$3,338,479**	15.52%	0.00%
General Fund 10				
Mechanics General Fund 10 Money Market Account	4.44%	1,812,452	8.42%	0.37%
Local Agency Investment Fund	4.30%	2,314,317	10.76%	0.46%
		$4,126,769		
Special Revenue Fund 20				
Mechanics Special Revenue Fund 20-ACH Clearing Account	0.00%	0	0.00%	0.00%
Mechanics Special Revenue Fund 20 Operating Account	0.00%	5,627	0.03%	0.00%
Mechanics Special Revenue Fund 20 Money Market Account	4.44%	5,198,635	24.16%	1.07%
Local Agency Investment Fund	4.30%	8,498,230	39.50%	1.70%
		$13,702,492		
Capital Projects Fund 30				
BNY Mellon Construction Fund - 2023 COPs	5.05%	**$195**	0.00%	0.00%
Long Term Debt Fund 40				
Mechanics Certificate of Deposit DWR Loan Reserve	4.85%	$268,594	1.25%	0.06%
Mechanics Certificate of Deposit SRF-D1501023	4.85%	$78,559	0.37%	0.02%
		347,153		
	Total:	**$21,515,085**	**100.0%**	

Total Funds Reserved	347,153
Total Funds Invested	17,823,828
Total Funds Non-Interest Bearing	3,344,106
Total Funds	**$21,515,088**
Total Available Funds	21,167,934
Cash Reserve Policy Requirements (PV Water)	6,820,000
Surplus (Deficit) of Funds	**$14,347,934**

PV Water
Accounts Receivable Aging 3 Month Trend
As of 06/30/2024

	Balance Forward	Bal Under 30	Bal 30 to 60	Bal 60 to 90	Bal 90 to 120	Bal Over 120
Accounts Receivable before credits	3,884,830	3,608,076	2,093	81	14,711	259,870
Credits	(2,041)					
Total Accounts Receivable at 06/30/24	3,882,789					
Accounts Receivable before credits	3,297,374	3,088,874	3,212	0	9,170	196,118
Credits	(4,160)					
Total Accounts Receivable at 06/30/23	3,293,214					
Accounts Receivable before credits	311,776	2,464	82	28,283	3,580	277,367
Credits	(5,903)					
Total Accounts Receivable at 05/31/24	305,873					
Accounts Receivable before credits	439,935	86	130,673	4,073	8,372	296,730
Credits	(4,509)					
Total Accounts Receivable at 04/30/24	435,425					



Accounts Payable

Checks by Date - Detail by Check Date

User: Priscilla
Printed: 7/1/2024 11:37 AM

Check	Vendor No / Invoice No	Vendor Name / Description	Check Date / Reference	Check Amount
45317	W375	WATSONVILLE BLUEPRINT	06/03/2024	
	115901	CL/Water Treatment Pipeline Design for 4/24		173.56
			Total for Check Number 45317:	173.56
			Total for 6/3/2024:	173.56
45318	UB*00647	4Q FARMS	06/13/2024	
		Refund Check 025469-000, 51 LEE RD		420.00
			Total for Check Number 45318:	420.00
45319	UB*00648	Live Oak Bery Farms, LLC	06/13/2024	
		Refund Check 024890-000, 416 CARLTON RD		314.71
			Total for Check Number 45319:	314.71
45320	UB*00649	WILLOUGHBY FARMS	06/13/2024	
		Refund Check 025433-000		339.47
			Total for Check Number 45320:	339.47
45321	UB*00650	Delucchi Farms, LLC	06/13/2024	
		Refund Check 024589-000, 1504 SAN ANDREAS RD		10.57
			Total for Check Number 45321:	10.57
45322	UB*00651	Live Oak Bery Farms, LLC	06/13/2024	
		Refund Check 025267-000, 600 RIVERSIDE RD		9.06
			Total for Check Number 45322:	9.06
45323	UB*00652	Live Oak Bery Farms, LLC	06/13/2024	
		Refund Check 024785-000, 150 WAGNER AV		721.78
			Total for Check Number 45323:	721.78
45324	UB*00653	ALVAREZ BROTHERS LLC	06/13/2024	
		Refund Check 025420-000, HUGHES RD		413.98
			Total for Check Number 45324:	413.98
45325	A190	ACE HARDWARE OF WATSONVILLE INC	06/13/2024	
	230221/230677	Field supplies for 5/24		216.14
			Total for Check Number 45325:	216.14
45326	A825	ANYTIME PLUMBING	06/13/2024	
	36492349	Plumbing repairs in basement 76 Holahan for 6/24		560.00
			Total for Check Number 45326:	560.00

Check	Vendor No / Invoice No	Vendor Name / Description	Check Date / Reference	Check Amount
45327	A910	ATCHINSON,BARISONE,CONDOTTI	06/13/2024	
	34519	CLP/WSR/General Legal Matters for 5/1-5/31/24		5,142.99
	34520	Legal Litigation for 5/1-5/31/24		312.00
	34521	Legal Collection Matters for 5/1-5/31/24		576.90
			Total for Check Number 45327:	6,031.89
45328	B195	BALANCE HYDROLOGICS, INC	06/13/2024	
	223177-0524	Watsonville Slough Gaging WSR-WY23-Billing thru 05/18/24		15,160.75
	225177-0524	Watsonville Slough Gaging WSR-WY24-Billing thru 05/18/24		9,569.11
			Total for Check Number 45328:	24,729.86
45329	C1500	CENTRAL ELECTRIC INC	06/13/2024	
	A57226	Fuses for recovery wells for 5/24		102.51
			Total for Check Number 45329:	102.51
45330	E500	ENVIRONMENTAL SCIENCE ASSOCIATES	06/13/2024	
	196878	Updating CL/WSR/HSR Pipeline Project for 5/1-5/31/24		12,630.50
			Total for Check Number 45330:	12,630.50
45331	G195	GREENWASTE RECOVERY LLC	06/13/2024	
	ID#219557	76 Holohan Green Waste for 5/24	219557	130.67
			Total for Check Number 45331:	130.67
45332	L563	BRIAN LOCKWOOD	06/13/2024	
	REIMB	Mileagae Reimb/GRA/ACWA SGMA Conference SAC for 6/24		248.46
			Total for Check Number 45332:	248.46
45333	M1002	CASEY MEUSEL	06/13/2024	
	REIMB	Mileage & Car wash reimb/GRA SGMA conf SAC for 6/24		75.99
			Total for Check Number 45333:	75.99
45334	M1010	MAGNOLIA GARDENING INC	06/13/2024	
	32120	36 Brennan Building Mo. Landscape Maint. For 6/24		100.00
	32318	76 Holohan Building Mo. Landscape Maint. For 6/24		90.00
			Total for Check Number 45334:	190.00
45335	M1086	MILLER MAXFIELD, INC.	06/13/2024	
	0524PV	Banner Desgisn/Board Q&A Form/S. Media AD/Spotify/FB/lookout/Google for 5/24		2,982.00
			Total for Check Number 45335:	2,982.00
45336	M1175	MONTEREY BAY ANALYTICAL SERVICE INC	06/13/2024	
	240502-083	Water Samples Groundwater for 5/2/24		1,065.00
	240507-067	Water Samples Groundwater for 5/7/24		714.00
	240509-089	Water Samples Groundwater for 5/9/24		1,850.00
	240514-068	Water Samples Groundwater for 5/14/24		1,734.00
	240515-109	Water Samples CDS for 5/15/24		875.00
	240515-122	Water Samples Groundwater for 5/15/24		102.00
	240522-002	Water Samples Surface for 5/22/24		2,240.00
	240522-003	Water Samples Surface for 5/22/24		1,195.00
	240522-004	Water Samples Surface for 5/22/24		561.00
	240522-005	Water Samples Groundwater for 5/22/24		102.00
			Total for Check Number 45336:	10,438.00

Check	Vendor No / Invoice No	Vendor Name / Description	Check Date / Reference	Check Amount
45337	M1875	MICROSOFT AZURE	06/13/2024	
	E0600SECU1	IT-Support/Pay as you go for 4/12-5/11/24		14.50
			Total for Check Number 45337:	14.50
45338	M2300	McCROMETER, INC.	06/13/2024	
	605500	Data re-activation/water damaged tel. last yrs flood for 5/24		348.10
			Total for Check Number 45338:	348.10
45339	O217	OFFICE AND HOME CLEANING SERVICES	06/13/2024	
	2534	36 Brennan Mo. Office housekeeping for 5/24		600.00
	2535	76 Holohan Mo. Housekeeping for 5/24		600.00
			Total for Check Number 45339:	1,200.00
45340	P1160	MIKE PODLECH	06/13/2024	
	2553	CL Fisheries Support Prof. Services for 5/1 to 5/31/24		1,350.00
			Total for Check Number 45340:	1,350.00
45341	P180	PENINSULA MESSENGER LLC	06/13/2024	
	1372086	Monthly RaboBank Courier for 5/24		143.00
			Total for Check Number 45341:	143.00
45342	P800	PG & E	06/13/2024	
	1787734656-3	Service at 1859 Beach rd/BW-2 for 5/9 to 6/7/24		22,243.16
	9214983032-2	Service at 1931 Beach rd/BW-1 for 5/9 to 6/7/24		408.22
	9218085363-9	Service at 162 San Andreas Rd/HSP Pump for 5/9 to 6/7/24		9,028.75
	9968544374-1	Service at 36 Brennan St for 5/9 to 6/7/24		654.96
			Total for Check Number 45342:	32,335.09
45343	R40	CARDMEMBER SERVICE	06/13/2024	
	MAY2024	Staff Credit Card Purchases		5,471.10
			Total for Check Number 45343:	5,471.10
45344	S1405	SC FUELS INC	06/13/2024	
	0887749	Agency Vehicles Fuel for 5/21-5/29/24		641.36
			Total for Check Number 45344:	641.36
45345	S1681	SHAMROCK OFFICE SOLUTIONS	06/13/2024	
	4087845	RICOH Office Ink for 5/24		15.00
	4092358	76 Holohan/Cont. printer usage/BW & Clr for 5/2-6/1/24		51.14
	4092359	36 Brennan/Cont. printer usage/BW & Clr for 5/2-6/1/24		173.26
			Total for Check Number 45345:	239.40
45346	S2150	SOUTHWEST VALVE, LLC	06/13/2024	
	34292B23275	CD's Turnout/valves field parts for 6/24		7,244.63
			Total for Check Number 45346:	7,244.63
45347	S2616	STEPHEN RIDER	06/13/2024	
	REIMB	Mileage reimb/Conf. Jun.4-6 for 6/24		243.88
			Total for Check Number 45347:	243.88
45348	S2910	STREET SCENE ON & OFF ROAD	06/13/2024	
	45942	Back-up alarm #15/2023 Toyota for 5/24		136.00
			Total for Check Number 45348:	136.00

Check	Vendor No / Invoice No	Vendor Name / Description	Check Date / Reference	Check Amount
45349	T305	TELSTAR INSTRUMENTS, INC.	06/13/2024	
	121848	Recovery Well + BW-2 troubleshooting for 5/10-5/22/24		10,392.63
			Total for Check Number 45349:	10,392.63
45350	V369	VERIZON WIRELESS	06/13/2024	
	9965489685	Agency Personnel Cell Phones & equipt. for 5/2 - 6/1/24		476.05
			Total for Check Number 45350:	476.05
45351	Z100	ZAG TECHNICAL SERVICES, INC.	06/13/2024	
	146320	IT-Agremment RMM Patching and AV for 6/24		1,900.00
	146339	IT-Monthly Agreement-KnowBe4 Security Awarness for 6/24		164.88
	146422	IT-Mo. Subs./base retention Agreement-Datto Cloud for 6/24		970.80
	146432	IT-Billable/Regular Support Agreement for 6/24		804.14
	146479	IT-Billable/Regular Support Agreement for 6/24		731.25
			Total for Check Number 45351:	4,571.07
			Total for 6/13/2024:	125,372.40
ACH	A1250	AFLAC- FLEX ONE	06/14/2024	
	EE Deferrals	EE PR Deferrals		499.25
			Total for this ACH Check for Vendor A1250:	499.25
ACH	A300	ACWA/JPIA	06/14/2024	
	Inv 0703038	EE PR Deferrals		25,367.13
			Total for this ACH Check for Vendor A300:	25,367.13
ACH	N125	NATIONWIDE RETIREMENT SOLUTION	06/14/2024	
	EE Deferrals	EE PR Deferrals		5,050.00
			Total for this ACH Check for Vendor N125:	5,050.00
ACH	P1300	PERS-Fiscal Services Division Cashier Unit	06/14/2024	
	EE Deferrals	ER/EE Retirement Contributions		9,963.86
	EE Retirement Contr	EE PR Deferrals		1,830.94
			Total for this ACH Check for Vendor P1300:	11,794.80
ACH	P555	PVWMA-Cafeteria Account	06/14/2024	
	EE Deferrals	EE PR Deferrals		693.43
			Total for this ACH Check for Vendor P555:	693.43
			Total for 6/14/2024:	43,404.61
ACH	T359	THE STANDARD INSURANCE COMPANY	06/24/2024	
	00-649299-0087	Long Term Disability Benefits		547.17
			Total for this ACH Check for Vendor T359:	547.17
			Total for 6/24/2024:	547.17
ACH	A1250	AFLAC- FLEX ONE	06/28/2024	
	EE Deferrals	EE PR Deferrals		499.25
			Total for this ACH Check for Vendor A1250:	499.25

Check	Vendor No / Invoice No	Vendor Name / Description	Check Date / Reference	Check Amount
ACH	N125	NATIONWIDE RETIREMENT SOLUTION	06/28/2024	
	EE Deferrals	EE PR Deferrals		5,050.00
			Total for this ACH Check for Vendor N125:	5,050.00
ACH	P1300	PERS-Fiscal Services Division Cashier Unit	06/28/2024	
	EE Deferrals	ER/EE Retirement Contributions		9,951.63
	EE Retirement Contr	EE PR Deferrals		1,830.94
			Total for this ACH Check for Vendor P1300:	11,782.57
ACH	P555	PVWMA-Cafeteria Account	06/28/2024	
	EE Deferrals	EE PR Deferrals		693.43
			Total for this ACH Check for Vendor P555:	693.43
ACH	E400	ENVIRONMENTAL PROTECTION AGENCY	06/28/2024	
	N22133CA-FEE02	CL Integrated Resources Manangement Proj# N22133CA for 6/24		19,470.00
	N22133CA-FEE03	CL/WSR/OHS Integrated Resources Manangement Proj# N22133CA for 6/24		109,469.05
	N22162CA-FEE02	WSR/OHS Integrated Resources Manangement Proj# N22162CA for 6/24		19,470.00
			Total for this ACH Check for Vendor E400:	148,409.05
ACH	T111	TANNER PACIFIC, INC	06/28/2024	
	224-195	CL/ PS. Const.Mngmnt P.line Proj#582301.07 & 08 thru 5/31/24		489,559.73
			Total for this ACH Check for Vendor T111:	489,559.73
45352	A110	AM CONSERVATION GROUP, INC.	06/28/2024	
	IN1602126	Water Conservation Supplies for 6/24		1,124.93
	IN1602326	Water Conservation Supplies for 6/24		78.39
			Total for Check Number 45352:	1,203.32
45353	A850	AVAYA FINANCIAL SERVICES.	06/28/2024	
	44932342	Phone/VM Lease Agreement for 6/1-6/30/24		435.12
			Total for Check Number 45353:	435.12
45354	C103	CBEC ECO ENGINEERING INC	06/28/2024	
	17-1003-6-28	CL Hydrologic Monitoring 2022-2023 for 5/1 - 5/31/24		1,620.25
	23-1017-13	CL Operations Plan Development for 5/1 - 5/31/24		2,974.00
			Total for Check Number 45354:	4,594.25
45355	C1580	SPECTRUM BUSINESS COMMUNICATIONS	06/28/2024	
	841312042015429	36 Brennan Line & Internet services for 6/23 to 7/22/24		656.78
			Total for Check Number 45355:	656.78
45356	D310	UNITED STATES GEOLOGICAL SURVEY	06/28/2024	
	BILL# 91156231	USGS Professional Services & Expenses for Jan.1-Mar 31(FY24 Q2)		18,892.00
			Total for Check Number 45356:	18,892.00
45357	E200	ELITE HOSPITALITY GROUP LLC	06/28/2024	
	1125-PV	Hotel during Night Construction for 5/24		2,600.80
	1126-PV	Hotel during Night Construction for 5/24		1,625.50
	1127-PV	Hotel during Night Construction for 5/24		1,950.60
			Total for Check Number 45357:	6,176.90

Check	Vendor No / Invoice No	Vendor Name / Description	Check Date / Reference	Check Amount
45358	E500	ENVIRONMENTAL SCIENCE ASSOCIATES	06/28/2024	
	B90103.02	WSR/HS Professional Desgin Services for 4/1- thru 5/31/24		1,744.08
	B90103.03	WSR/HS Professional Design Services for 4/1- thru 5/31/24		1,863.16
	B90103.04	WSR/HS Professional services Design for 4/1 thru 5/31/24		5,408.26
			Total for Check Number 45358:	9,015.50
45359	F200	FEDERAL EXPRESS, INC.	06/28/2024	
	853774341	To: IN-SITU Inc for 6/24		37.62
			Total for Check Number 45359:	37.62
45360	F360	FIRST ALARM, INC	06/28/2024	
	827795	Brennan & Holohan Qrtly Alarm Services for 7/1 to 9/30/24		911.40
			Total for Check Number 45360:	911.40
45361	F485	FORESTRY SUPPLIERS	06/28/2024	
	565409-00	Field Supplies/Calibration kit for 6/24		128.40
			Total for Check Number 45361:	128.40
45362	G330	GUTIERREZ CONSULTANTS, INC.	06/28/2024	
	1874	PS MBLRP Grant/Support Serv for 4/1 to 4/30/24		4,899.00
	1875	Loan Support .Various Serv for 4/1 to 4/30/24		4,416.00
	1882	PS MBLRP Grant/Support Serv for 5/1 to 5/31/24		4,485.00
	1884	Loan Support .Various Serv for 5/1 to 5/31/24		4,416.00
			Total for Check Number 45362:	18,216.00
45363	I220	IN-SITU INC.	06/28/2024	
	INV108233	Water level Meter for 6/24		945.52
			Total for Check Number 45363:	945.52
45364	J301	JACOBS ENGINEERING GROUP INC.	06/28/2024	
	W8Y08701	CL/PS/ Pipeline Project/Eng.Services Dsgn for 4/27 to 5/24/24		29,048.24
			Total for Check Number 45364:	29,048.24
45365	K310	KITTLESON ENVIRONMENTAL CONSULTING	06/28/2024	
	025.41	PVWMA 2024 Biological Consulting for 5/2-6/14/24		2,444.22
			Total for Check Number 45365:	2,444.22
45366	L563	BRIAN LOCKWOOD	06/28/2024	
	REIMB	Reimb.Mileage & Meals/Groundwater AG seminar for 6/24		158.52
			Total for Check Number 45366:	158.52
45367	M1175	MONTEREY BAY ANALYTICAL SERVICE INC	06/28/2024	
	240530-068	Water Samples CDS for 5/30/24		1,610.00
			Total for Check Number 45367:	1,610.00
45368	M1865	MONTGOMERY & ASSOCIATES INC	06/28/2024	
	9090-24-5	PS/PV/Monitoring Network Expansion PM. for 5/1 to 5/31/24		2,776.50
			Total for Check Number 45368:	2,776.50
45369	M1872	MICROSOFT	06/28/2024	
	E0400SCHWY	IT-Online Hydrology 365 Support for 5/17-6/16/24		12.50
			Total for Check Number 45369:	12.50

Check	Vendor No / Invoice No	Vendor Name / Description	Check Date / Reference	Check Amount
45370	M2300	McCROMETER, INC.	06/28/2024	
	570243-CR	Data charges for 6/15/22		-153.60
	5869007-1	Data charges for 10/28/22		743.85
	586908-2	Data charges for 10/28/22		1,362.49
	586913-3	Data charges for 10/28/22		608.87
	587006-4	Data charges for 11/2/22		1,321.53
	590470-5	Data charges for 2/22/23		839.17
	601522	Data charges for 1/22/24		23,527.35
			Total for Check Number 45370:	28,249.66
45371	N245	AMY NEWELL	06/28/2024	
	REIMB	Hotel & Mileage reimb/Groundwater Conference for 6/17 - 6/20/24		875.22
			Total for Check Number 45371:	875.22
45372	O250	ONSET COMPUTER CORP.	06/28/2024	
	335940	HOBO Water Level U20L Series for 6/24		5,756.39
			Total for Check Number 45372:	5,756.39
45373	O411	O'REILLY AUTO PARTS	06/28/2024	
	2912-403829	Vehicle #16 parts/Maint for 4/24		9.58
			Total for Check Number 45373:	9.58
45374	P510	PAJARO VALLEY PRINTING	06/28/2024	
	47746	6000 Self Seal Window/Regular/Ret. Envelopes for 6/24		822.03
			Total for Check Number 45374:	822.03
45375	P629	PASILLAS TIRE SERVICES, INC	06/28/2024	
	45734	Veh. Maint. service on Truck#15 for 4/24		600.00
	46073	Veh. Maint. service on Truck#16 for 6/24		420.00
			Total for Check Number 45375:	1,020.00
45376	P800	PG & E	06/28/2024	
	0688235687-3	Service at 76 Holohan Rd for 5/21 to 6/19/24		698.40
	2926809320-9	Service at 36 B Brennan St for 5/22 to 6/20/24		279.51
	3015753830-4	Electric Pump/2 homes/76 & 116 Holohan for 5/22 to 6/20/24		259.88
	3771390038-1	Service at Jensen Rd #3 for 5/20 to 6/17/24		30.24
	4291054495-8	Service at 475 San Andreas Rd for 5/21 to 6/19/24		3,236.82
	5290624576-7	Service at 2240 Beach Rd for 5/20 to 6/17/24		12.89
	5916054391-0	Service at 187C San Andreas Rd for 5/21 to 6/19/24		7,466.08
			Total for Check Number 45376:	11,983.82
45377	R50	RAIN FOR RENT INC	06/28/2024	
	2016377	Booster display replaced /Maint.& Repairs for 6/24		1,246.44
			Total for Check Number 45377:	1,246.44
45378	S1020	SANTA CRUZ CO.FAIRGROUNDS FOUNDATION	06/28/2024	
	WATER AWARNE	Water Awareness Project approved by BOD on May 15 for 6/24		12,000.00
			Total for Check Number 45378:	12,000.00
45379	S1405	SC FUELS INC	06/28/2024	
	0894342	Agency Vehicles Fuel for 6/24		738.65
			Total for Check Number 45379:	738.65

Check	Vendor No / Invoice No	Vendor Name / Description	Check Date / Reference	Check Amount
45380	S2015	SONIC WALL	06/28/2024	
	1415637	Gateway security bundle for TZ300 series 1 yr for 7/24		602.60
			Total for Check Number 45380:	602.60
45381	S2150	SOUTHWEST VALVE, LLC	06/28/2024	
	34292B23509	CD's Turnout/valves field parts for 6/24		5,087.60
			Total for Check Number 45381:	5,087.60
45382	S2620	STATE WATER RESOURCES CONTROL BOARD-SWRCB	06/28/2024	
	D1501023	Contract#D1501023 Proj#8072-120 for 6/24		76,206.06
			Total for Check Number 45382:	76,206.06
45383	S610	SANTA CRUZ CO. DPW.DEPT.COMM. & INFRASTRUCTURE	06/28/2024	
	DPWAC-PC3256	College Lake labor for 2/24 - 4/24		582.55
			Total for Check Number 45383:	582.55
45384	T305	TELSTAR INSTRUMENTS, INC.	06/28/2024	
	121848	RW's Trouble Shooting for 5/24		329.31
			Total for Check Number 45384:	329.31
45385	T345	THE HOME DEPOT CREDIT SERVICES	06/28/2024	
	3542848/2035351	Field Supplies/Operations & Equipment for 5/24		407.21
			Total for Check Number 45385:	407.21
45386	U185	U.S. BANK EQUIPMENT FINANCE	06/28/2024	
	528709694	RICOH Office Copier (76 Holohan) for 5/24		159.49
	530870146	RICOH Office Copier (76 Holohan) for 6/24		159.49
	531530376	RICOH Office Copier (36 Brennan) for 6/24		208.57
	531822591	RICOH Office Copier (upstairs) for 6/24		79.55
			Total for Check Number 45386:	607.10
45387	W400	CITY OF WATSONVILLE UTILITIES	06/28/2024	
	CUST#602389	Office Monthly Utilities for 5/15 to 6/11/24		168.64
			Total for Check Number 45387:	168.64
45388	W550	CITY OF WATSONVILLE BUSINESS LICENSE	06/28/2024	
	ACC#5362	Business License Renewal for 7/1/24 to 6/30/25		105.00
			Total for Check Number 45388:	105.00
45389	W80	WAGEWORKS INC.	06/28/2024	
	INV6699618	Mo. Admin. & Compliance Fee fof FSA		104.00
			Total for Check Number 45389:	104.00
45390	Z100	ZAG TECHNICAL SERVICES, INC.	06/28/2024	
	146701	IT-Billable/Regular Support Agreement for 6/24		48.75
	146792	IT-Billable/Regular Support Agreement for 6/24		1,695.76
	146838	IT-Billable/Regular Support Agreement for 6/24		780.00
			Total for Check Number 45390:	2,524.51
			Total for 6/28/2024:	902,683.19
			Report Total (86 checks):	1,072,180.93