

AGENDA
SAN ELIJO JOINT POWERS AUTHORITY
MONDAY, OCTOBER 8, 2018 AT 8:30 AM
SAN ELIJO WATER RECLAMATION FACILITY – CONFERENCE ROOM
2695 MANCHESTER AVENUE
CARDIFF BY THE SEA, CALIFORNIA

1. CALL TO ORDER
2. ROLL CALL
3. PLEDGE OF ALLEGIANCE
4. ORAL COMMUNICATIONS (NON-ACTION ITEM)
5. PRESENTATION OF AWARDS
 - Susie Arredondo, 10 Years of Service
6. * **CONSENT CALENDAR**
7. * APPROVAL OF MINUTES FOR SEPTEMBER 10, 2018 MEETING
8. * APPROVAL FOR PAYMENT OF WARRANTS AND MONTHLY INVESTMENT REPORTS
9. * SAN ELIJO WATER RECLAMATION FACILITY TREATED EFFLUENT FLOWS – MONTHLY REPORT
10. * SAN ELIJO JOINT POWERS AUTHORITY RECYCLED WATER PROGRAM – MONTHLY REPORT
11. * MAINTENANCE TRUCK AND SLUDGE TRACTOR CALIFORNIA AIR RESOURCES BOARD EMISSIONS COMPLIANCE
12. * ITEMS REMOVED FROM CONSENT CALENDAR

Items on the Consent Calendar are routine matters and there will be no discussion unless an item is removed from the Consent Calendar. Items removed by a "Request to Speak" form from the public will be handled immediately following adoption of the Consent Calendar. Items removed by a Board Member will be handled as directed by the Board.

REGULAR AGENDA

13. ACCEPTANCE OF COMPLETION – CONSTRUCTION CONTRACT FOR THE LAND OUTFALL REPLACEMENT PROJECT

1. Authorize the General Manager to accept the Land Outfall Replacement Project on behalf of the SEJPA and record the project Notice of Completion; and
2. Discuss and take action as appropriate.

Staff Reference: General Manager

14. GENERAL MANAGER'S REPORT

Informational report by the General Manager on items not requiring Board action.

15. GENERAL COUNSEL'S REPORT

Informational report by the General Counsel on items not requiring Board action.

16. BOARD MEMBER COMMENTS

This item is placed on the agenda to allow individual Board Members to briefly convey information to the Board or public, or to request staff to place a matter on a future agenda and/or report back on any matter. There is no discussion or action taken on comments by Board Members.

17. CLOSED SESSION

The Board will adjourn to Closed Session to discuss item(s) identified below. Closed Session is not open to the public; however, an opportunity will be provided at this time if members of the public would like to comment on any item listed below. (Three minute limit.) A closed session may be held at any time during this meeting of the San Elijo Joint Powers Authority for the purposes of discussing potential or pending litigation or other appropriate matters pursuant to the "Ralph M. Brown Act".

CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION. Significant exposure to litigation pursuant to Gov. Code section 54956.9(d)(2): 1 matter;

CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION. Initiation of litigation pursuant to Gov. Code section 54956.9(d)(4): 1 matter; and

CONFERENCE WITH LEGAL COUNSEL—EXISTING LITIGATION. Pursuant to Gov. Code section 54956.9(d)(1), name of case: In the Matter of the Appeal Regarding the Uniform Allowance of San Elijo Joint Powers Authority, CalPERS Case No. 2016-0354.

18. ADJOURNMENT

The next regularly scheduled San Elijo Joint Powers Authority Board Meeting will be **Tuesday**, November 13, 2018 at 8:30 a.m.

NOTICE:

The San Elijo Joint Powers Authority's open and public meetings meet the protections and prohibitions contained in Section 202 of the Americans With Disabilities Act of 1990 (42 U.S.C Section 12132), and the federal rules and regulations adopted in implementation thereof. Any person with a disability who requires a modification or accommodation, including auxiliary aids or services, in order to participate in a public meeting of the SEJPA Board of Directors may request such modification or accommodation from Michael T. Thornton, General Manager, (760) 753-6203 ext. 72.

The agenda package and materials related to an agenda item submitted after the packet's distribution to the Board is available for public review in the lobby of the SEJPA Administrative Office during normal business hours. Agendas and minutes are available at www.sejpa.org. The SEJPA Board meetings are held on the second Monday of the month, except August.

AFFIDAVIT OF POSTING

I, Michael T. Thornton, Secretary of the San Elijo Joint Powers Authority, hereby certify that I posted, or have caused to be posted, a copy of the foregoing agenda in the following locations:

San Elijo Water Reclamation Facility, 2695 Manchester Avenue, Cardiff, California
City of Encinitas, 505 South Vulcan Avenue, Encinitas, California
City of Solana Beach, 635 South Highway 101, Solana Beach, California

The notice was posted at least 72 hours prior to the meeting, in accordance with Government Code Section 54954.2(a).

Date: October 3, 2018



Michael T. Thornton, P.E.
Secretary / General Manager

SAN ELIJO JOINT POWERS AUTHORITY
MINUTES OF THE REGULAR BOARD MEETING
HELD ON SEPTEMBER 10, 2018
AT THE
SAN ELIJO WATER RECLAMATION FACILITY

Tasha Boerner Horvath, Chair

David Zito, Vice Chair

A regular meeting of the Board of Directors of the San Elijo Joint Powers Authority (SEJPA) was held Monday, September 10, 2018, at 8:30 a.m., at the San Elijo Water Reclamation Facility at 2695 Manchester Avenue, Cardiff by the Sea, California.

1. CALL TO ORDER

Chair Boerner Horvath called the meeting to order at 8:30 a.m.

2. ROLL CALL

Directors Present:

Tasha Boerner Horvath
David Zito
Joe Mosca
Peter Zahn

Directors Absent:

None

Others Present:

General Manager
Director of Finance & Administration
Administrative Assistant/Board Clerk

Michael Thornton
Paul Kinkel
Jennifer Basco

SEJPA Counsel:

Procopio, Cory, Hargreaves & Savitch

Adriana Ochoa

City of Solana Beach:

City Manager
Director of Engineering/Public Works

Greg Wade
Mohammad "Mo" Sammak

3. PLEDGE OF ALLEGIANCE

Chair Boerner Horvath led the Pledge of Allegiance.

4. ORAL COMMUNICATIONS

None

5. PRESENTATION OF AWARDS

None

6. CONSENT CALENDAR

Moved by Board Member Zito and seconded by Board Member Zahn to approve the Consent Calendar.

- | | |
|--------------------|--|
| Agenda Item No. 7 | Approval of Minutes for the June 11, 2018 Meeting |
| Agenda Item No. 9 | San Elijo Water Reclamation Facility Treated Effluent Flows – Monthly Report |
| Agenda Item No. 10 | San Elijo Joint Powers Authority Recycled Water Program – Monthly Report |
| Agenda Item No. 11 | Award Professional Service Agreement with Water Systems Consulting, Inc. for Communications and Outreach Support |
| Agenda Item No. 12 | San Elijo Joint Powers Authority Conflict of Interest Code Update on Appendix A by Resolution 2019-02 |

Motion carried with the following vote of approval:

AYES:	Boerner Horvath, Zito, Mosca, Zahn
NOES:	None
ABSENT:	None
ABSTAIN:	None

- | | |
|-------------------|--|
| Agenda Item No. 8 | Approval for Payment of Warrants and Monthly Investment Report |
|-------------------|--|

Motion carried with the following vote of approval:

AYES:	Boerner Horvath, Zito, Zahn
NOES:	None
ABSENT:	None
ABSTAIN:	Mosca

13. ITEMS REMOVED FROM CONSENT CALENDAR

None

14. CLASSIFICATION AND COMPENSATION STUDY

The General Manager informed the Board of Directors that SEJPA employees are currently operating under a 3-year labor agreement (Resolution 2018-02), which is scheduled to expire June 30, 2019. As part of the agreement, the SEJPA will perform a Classification and Compensation Study and present recommendations to the Board of Directors prior to the end of the contract. SEJPA has the option of completing the Classification and Compensation study in-house or through the use of a consultant. The cost to have a consultant complete the study is estimated to be between \$20,000 and \$30,000. There is no external cost to having the study completed in-house.

Moved by Board Member Mosca and seconded by Chair Boerner Horvath to:

1. Authorize the General Manager to perform a Classification and Compensation Study in-house.

Motion carried with the following vote of approval:

AYES:	Boerner Horvath, Zito, Mosca, Zahn
NOES	None
ABSENT:	None
ABSTAIN:	None

15. 2018 SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) UPGRADE PROJECT

The General Manager gave a brief background on the SCADA system used to monitor and control water treatment, distribution, and storage processes for the SEJPA. The system allows staff to monitor facility operations and process performance in real-time, either onsite or remotely. Bid documents for the 2018 SCADA Upgrade project were sent to the two qualified bidders and bids were opened publicly on August 23, 2018. The lowest responsive/responsible bid for the project is \$560,000 from Tesco Controls, Inc. The design engineer (Carollo) is already under contract for engineering support during construction in the amount of \$21,200. Staff also negotiated a fee of \$42,000 with Carollo to provide Construction Management, including inspection and quality control, during the construction of the project. Mr. Thornton stated the estimated cost to complete, based on current information, is \$685,520. The SEJPA budgeted \$838,000 in its capital program for the project.

Moved by Board Member Zahn and seconded by Vice Chair Zito to:

1. Authorize the General Manager to execute a contract in the amount of \$560,000 with Tesco Controls, Inc., for the SCADA Upgrade Project;
2. Authorize the General Manager to execute a contract in an amount not to exceed \$34,000 with Tesco Controls, Inc., for other as-needed services; and
3. Authorize the General Manager to amend the professional services agreement with Carollo Engineers for Construction Management during project construction for an amount of \$42,000.

Motion carried with the following vote of approval:

AYES: Boerner Horvath, Zito, Mosca, Zahn
NOES None
ABSENT: None
ABSTAIN: None

16. PROFESSIONAL SERVICE AGREEMENT FOR ENGINEERING AND ENVIRONMENTAL SERVICES FOR DEVELOPING BIKE/PEDESTRIAN PATH

General Manager Thornton stated that the SEJPA is working with Caltrans and the City of Encinitas to construct a bike and pedestrian path through SEJPA property. This will improve bike and walking routes within the community of Cardiff by the Sea. SEJPA and Caltrans have agreed to select Kimley-Horn and Associates, Inc. to serve as the lead engineering firm for the project, and have agreed on the scope of work and fee for preparing the final design and environmental permitting. The General Manager stated that SEJPA has adequate funding available within the Building and Site Improvement capital project. Caltrans will reimburse the SEJPA up to \$450,000 for final design engineering and environmental permitting, based on actual costs incurred. Reimbursement funds from Caltrans are expected to be received in FY 2018-19.

Moved by Board Member Zahn and seconded by Vice Chair Zito to:

1. Authorize the General Manager to execute a professional service agreement with Kimley-Horn and Associates, Inc. for an amount not to exceed \$450,000.

Motion carried with the following vote of approval:

AYES: Boerner Horvath, Zito, Mosca, Zahn
NOES None
ABSENT: None
ABSTAIN: None

17. CAPITAL IMPROVEMENT PROGRAM UPDATE

General Manager Thornton provided status updates on the various projects in SEJPA's Capital Improvement Program. Phase I of the CIP is currently in construction and includes the Land Outfall Replacement, Preliminary Treatment Upgrades, and Odor Control Improvements. Phase II is currently in the design and permitting stage, and consists primarily of a bundle of individual projects referred to as the Building and Site Improvements Project, as well as IRWM recycled water pipelines, electrical upgrades to Motor Control Center No. 2, and improvements to the SCADA system. Phase III, the Solids Treatment Project, is currently in the pre-design phase. Phase IV consists of Resource Recovery and Reuse projects including water storage, process optimization, and energy efficiency projects. This phase is in early stages of evaluation and development. Mr. Thornton stated the 2017 Clean Water Bonds and grant funding, combined with current and future cash contributions for capital projects, is the primary basis for the Capital Improvement Program.

No action required. This memorandum was submitted for information only.

18. GENERAL MANAGER'S REPORT

General Manager Thornton updated the Board of Directors on the status of the emergency repair of the methane gas line at the SEWRF.

19. GENERAL COUNSEL'S REPORT

Adriana Ochoa informed the Board of Directors that she attended the California Association of Sanitation Agencies (CASA) Annual Conference last month. CalPERS' appeal regarding uniforms will be going in front of the CalPERS' Board next month.

20. BOARD MEMBER COMMENTS

Board Member Zahn inquired about innovative activities or ideas that the SEJPA may be involved with.

21. CLOSED SESSION

None

22. ADJOURNMENT

The meeting adjourned at 9:15 a.m. The next Board of Directors meeting will be held on October 8, 2018 at 8:30 a.m.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

SAN ELIJO JOINT POWERS AUTHORITY**PAYMENT OF WARRANTS****19-10****For the Month of August and September 2018**

Warrant #	Vendor Name	G/L Account	Warrant Description	Amount
36160	Advanced Air & Vacuum	Services - Maintenance	Air compressor	900.60
36161	Affordable Drain Service, Inc.	Services - Maintenance	Clean-out gas line - Digester area	975.00
36162	Alfa Laval Ashbrook Simon-Hart	Repair Parts Expense	Aluminum mixer kit	1,988.56
36163	Aquatic Bioassay	Services - Laboratory	Toxicity testing	1,400.00
36164	Atlas Pumping Service Inc.	Services - Grease & Scum	Special service; grease and scum pumping	854.88
36165	Black & Veatch	Services - Management	Solids treatment process	6,011.88
36166	Brenntag Pacific, Inc.	Supplies - Chemicals	Sodium hydroxide	966.10
36167	Carollo Engineers	Services - Professional; Engin.	Oak Crest Park Reservoir, Arc Flash, SCADA upgrad	4,440.91
36168	Comoso	Supplies - Shop & Field	Expoly	94.28
36169	Complete Office	Supplies - Office	Office supplies	172.17
36170	CS-Amsco	Repair Parts Expense	Valves	2,693.36
36171	D&H Water Systems	Repair Parts Expense	Chlorine analyzer display	1,233.19
36172	Encinitas Ford	Vehicle Maintenance	Maintenance service	240.92
36173	Evantec Lab Supply	Supplies - Lab	Laboratory supplies	766.61
36174	Forte of San Diego	Supplies - Janitorial	Supplies	67.86
36175	Golden State Overnight	Postage/Shipping	Lab samples	88.06
36176	Hach Company	Services - Maintenance	Service - Chorine analyzer	2,153.49
36177	Kemira Water Solutions, Inc.	Supplies - Chemicals	Ferric chloride	5,322.85
36178	The Lawton Group	Services - Intern Program	Weeks worked - 08/06/18 - 08/17/18	1,239.50
36179	Marine Taxonomic Services, Ltd.	Services - Contractors	Quarterly ocean monitoring and data collection	2,250.00
36180	McMaster-Carr Supply Co.	Supplies - Shop & Field	Gaskets, flange, plumbing parts, blasting media	676.60
36181	MetLife - Group Benefits	Dental/Vision	Dental - September	1,816.05
36182	Micro Motion, Inc.	Repair Parts Expense	Belt press flow meter	894.93
36183	Olin Corp - Chlor Alkali	Supplies - Chemicals	Sodium hypochlorite	3,606.91
36184	Olivenhain Municipal Water District	State Grants	North County Demineralization Co-operative	7,250.00
36185	Pacific Pipeline Supply	Repair Parts Expense	Gaskets, nuts and bolts set	178.97
36186	ReadyRefresh	Supplies - Lab	Kitchen and lab supplies	317.25
36187	RSF Security Systems	Prepaid - Other	Security - 09/01/18 - 11/30/18	1,353.00
36188	San Diego Gas & Electric	Utilities - Gas & Electric	Gas and electric - 07/05/18 - 08/05/18	86,502.59
36189	San Dieguito Water District	Utilities - Water	Recycled water	2,246.70
36190	Sigma-Aldrich	Supplies - Lab	Minerals	107.01
36191	Sunbelt Rentals	Equipment Rental/Lease	Trash pump - 07/23/18 - 08/19/18	1,895.87
36192	T.S. Industrial Supply	Supplies - Shop & Field	Plumbing supplies	664.25
36193	Terminix Processing Center	Services - Maintenance	Pest control	224.00
36194	Test America	Services - Laboratory	Testing water samples	3,762.89
36195	Technology Integration Group	Services - Maintenance	Copier	58.86
36196	Trussell Technologies, Inc.	Services - Engineering	Ammonia analyzer testing support	750.00
36197	Unifirst Corporation	Services - Uniforms	Uniform service	449.25
36198	Vantagepoint Transfer Agents	EE Deduction Benefits	ICMA - 457	7,188.08
36199	Vantagepoint Transfer Agents	ICMA Retirement	ICMA - 401a	3,441.89
36200	Verizon Wireless	Utilities - Telephone	07/11/18 - 08/10/18	309.80
36201	VWR International, Inc.	Supplies - Lab	Laboratory supplies	918.38
On-line 109	Calpers	Services - Accounting	GASB-68 reports and schedules	1,050.00
On-line 110	Chevron & Texaco Business Card	Fuel	August	413.07
On-line 111	P.E.R.S.	Medical Insurance - PERS	Health - September	22,613.36
On-line 112	Public Employees- Retirement	Retirement Plan - PERS	Retirement - 08/11/18 - 08/24/18	13,114.23
36202	Advanced Air & Vacuum	Services - Maintenance	Air compressor	1,912.58
36203	Affordable Drain Service, Inc.	Services - Maintenance	Inspect and cleanout gas line	656.25
36204	Aflac	EE Deduction Benefits	Aflac - September	643.60
36205	Ag Tech, LLC	Services - Biosolids Hauling	Biosolids hauling - August	19,523.36
36206	Airgas USA, LLC	Supplies - Shop & Field	Welding supplies	776.66
36207	All American First Aid & Safety	Supplies - Safety	Nitrile gloves	610.94
36208	AT&T	Utilities - Telephone	Alarm service - September	429.56
36209	Atlas Pumping Service Inc.	Services - Grease & Scum	Grease and scum pumping	804.88
36210	Black & Veatch	Services - Management	Land outfall replacement project	53,809.42
36211	Brenntag Pacific, Inc.	Supplies - Chemicals	Sodium hydroxide	1,456.27
36212	City of Solana Beach	Accounts Receivable Control	2011 refunding bond payment	14,470.31
36213	Complete Office	Supplies - Office	Supplies	70.50
36214	Corodata	Rent	Record storage - August	99.15
36215	Crown Point Embroidery	Other Personnel Cost	Caps	439.62
36216	CWEA Membership	Dues & Memberships	Membership	180.00

SAN ELIJO JOINT POWERS AUTHORITY**PAYMENT OF WARRANTS****19-10****For the Month of August and September 2018**

Warrant #	Vendor Name	G/L Account	Warrant Description	Amount
36217	DMV	Services - Other	Safety records - 08/01/18 - 08/31/18	1.00
36218	Dudek & Associates	Services - Professional	Encinitas Ranch recycled water expansion project	6,342.50
36219	Duperon Corporation	Equipment Rental/Lease	Washer compactor	4,310.00
36220	EDCO Waste & Recycling Service	Utilities - Trash	August	242.75
36221	Encina Wastewater Authority	Service - EWA Support	Resource sharing - HR and safety	1,441.65
36222	J.R. Filanc Construction Co.	Services - Contractors	Land outfall replacement project	52,658.50
36223	Forte of San Diego	Services - Janitorial	October	1,000.00
36224	Global Power Group Inc.	Services - Maintenance	Maintenance and cooling system service	2,750.18
36225	Grainger, Inc.	Supplies - Safety	Full body harness	438.71
36226	GTT Communications	Utilities - Internet	T-1 service - October	355.24
36227	Harrington Industrial Plastics	Repair Parts Expense	Impellers - chemical drum pumps	205.12
36228	Helix Environmental Planning	Services - Professional	Environmental planning	770.00
36229	Jennifer Basco	Subsistence - Travel	Mileage	118.10
36230	Kennedy/Jenks Consultants	Services - Engineering	Land ocean outfall final design; CMAR	20,760.00
36231	Lee Michael Konicke	Subsistence - Meals	LORP closeout and process improvements	90.77
36232	The Lawton Group	Services - Intern Program	Weeks worked - 08/06/18 - 08/31/18	823.25
36233	McMaster-Carr Supply Co.	Supplies - Safety	Safety signs, plumbing parts, filter, cabinets	597.31
36234	NeWest Construction	Services - Contractors	Headworks and grit project	709,986.06
36235	Olin Corp - Chlor Alkali	Supplies - Chemicals	Sodium hypochlorite	3,647.09
36236	Olivenhain Municipal Water District	Rent	Pipeline rental payment - August	15,093.00
36237	Pacific Green Landscape	Services - Landscape	September	2,625.00
36238	Pacific Pipeline Supply	Repair Parts Expense	Seal cap, gasket, bolt nut set, meter box	779.71
36239	Peerless Materials Co., LLC	Supplies - Shop & Field	Shop towels	282.84
36240	Polydyne Inc.	Supplies - Chemicals	Clarifloc	11,399.95
36241	Preferred Benefit Insurance	Dental/Vision	Vision - September	315.60
36242	ProBuild Company, LLC	Supplies - Shop & Field	Repair parts, safety, shop and field supplies	310.09
36243	Rusty Wallis, Inc.	Services - Maintenance	Water softener, tank service, and salt bags	124.39
36244	Santa Fe Irrigation District	Utilities - Water	Recycled water	359.40
36245	Santa Fe Irrigation District	SFID Distribution Pipeline	Pipeline purchase payment - August	1,642.50
36246	San Dieguito Water District	Utilities - Water	Recycled water	197.95
36247	San Dieguito Water District	Utilities - Water	Recycled water	2,271.75
36248	Christopher A. Trees	Subsistence - Travel/Rm & Bd	WaterReuse Symposium	1,484.93
36249	Unifirst Corporation	Services - Uniforms	Uniform service	221.66
36250	Underground Service Alert/SC	Services - Alarm	Dig alert - August	161.80
36251	Valve Automation & Control	Repair Parts Expense	Controlling board - Actuator	719.77
36252	Vantagepoint Transfer Agents	EE Deduction Benefits	ICMA - 457	7,347.50
36253	Vantagepoint Transfer Agents	ICMA Retirement	ICMA - 401a	3,517.76
On-line 113	BankCard Center	Supplies - Various	Security, safety, and repair parts	2,606.36
On-line 114	Chevron & Texaco Business Card	Fuel	August and September	518.38
On-line 115	Public Employees- Retirement	Retirement Plan - PERS	Retirement - 08/25/18 - 09/07/18	13,392.95
	San Elijo Payroll Account	Payroll	Payroll - 08/31/2018	67,492.09
	San Elijo Payroll Account	Payroll	Payroll - 09/14/2018	78,739.65
				\$1,309,690.52

SAN ELIJO JOINT POWERS AUTHORITY

PAYMENT OF WARRANTS SUMMARY

**For the Month of August and September 2018
As of September 25, 2018**

PAYMENT OF WARRANTS		\$ 1,309,690.52
Reference Number	19-10	

I hereby certify that the demands listed and covered by warrants are correct and just to the best of my knowledge, and that the money is available in the proper funds to pay these demands. The cash flows of the SEJPA, including the Member Agency commitment in their operating budgets to support the operations of the SEJPA, are expected to be adequate to meet the SEJPA's obligations over the next six months. I also certify that the SEJPA's investment portfolio complies with the SEJPA's investment policy.



Paul F. Kinkel
Director of Finance & Administration

STATEMENT OF FUNDS AVAILABLE FOR PAYMENT OF WARRANTS
AND INVESTMENT INFORMATION
As of September 25, 2018

FUNDS ON DEPOSIT WITH	AMOUNT
LOCAL AGENCY INVESTMENT FUND	
<i>(AUGUST 2018 YIELD 1.998%)</i>	
RESTRICTED SRF RESERVE	\$ 630,000.00
UNRESTRICTED DEPOSITS	\$ 7,653,739.79
CALIFORNIA BANK AND TRUST	
<i>(AUGUST 2018 YIELD 0.01%)</i>	
REGULAR CHECKING	\$ 423,637.26
PAYROLL CHECKING	\$ 5,000.00
UNION BANK - TRUSTEE (BOND FUNDS)	
BLACKROCK	\$ 1,304,951.73
<i>(AUGUST 2018 YIELD 1.82%)</i>	
LAIF	\$ 17,856,916.71
<i>(AUGUST 2018 YIELD 1.998%)</i>	
TOTAL RESOURCES	\$ 27,874,245.49

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

October 8, 2018

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: SAN ELIJO WATER RECLAMATION FACILITY TREATED EFFLUENT FLOWS
– MONTHLY REPORT

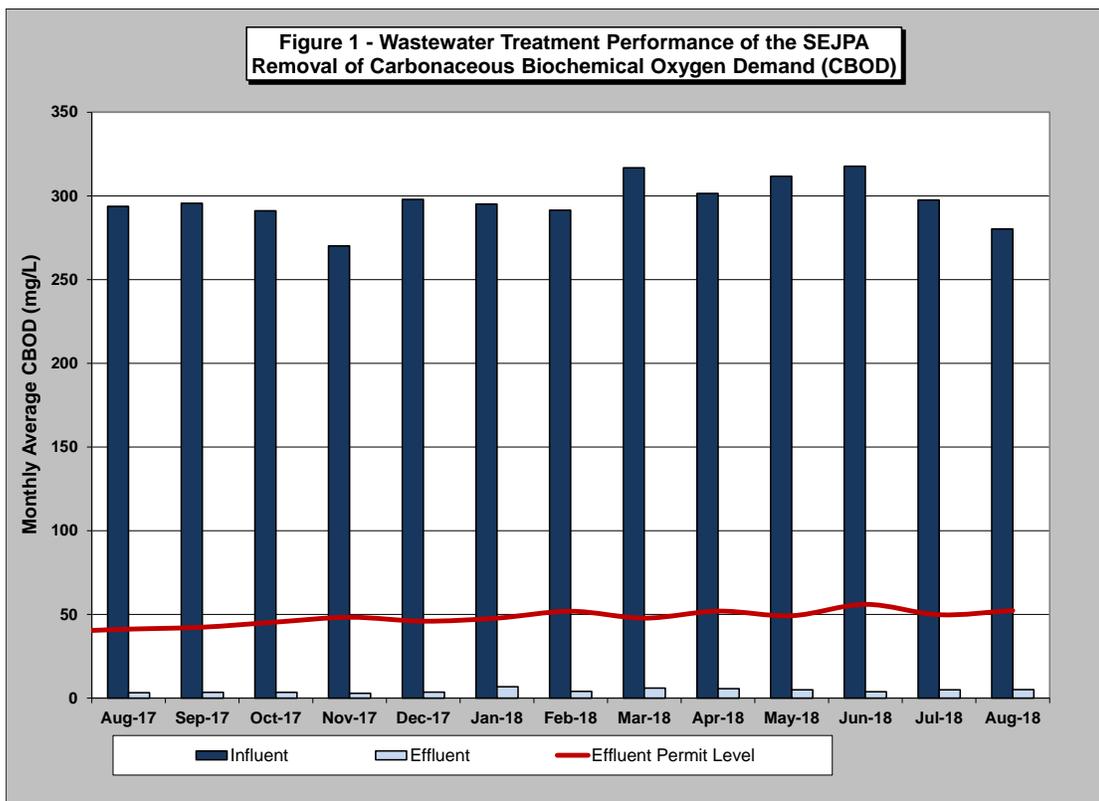
RECOMMENDATION

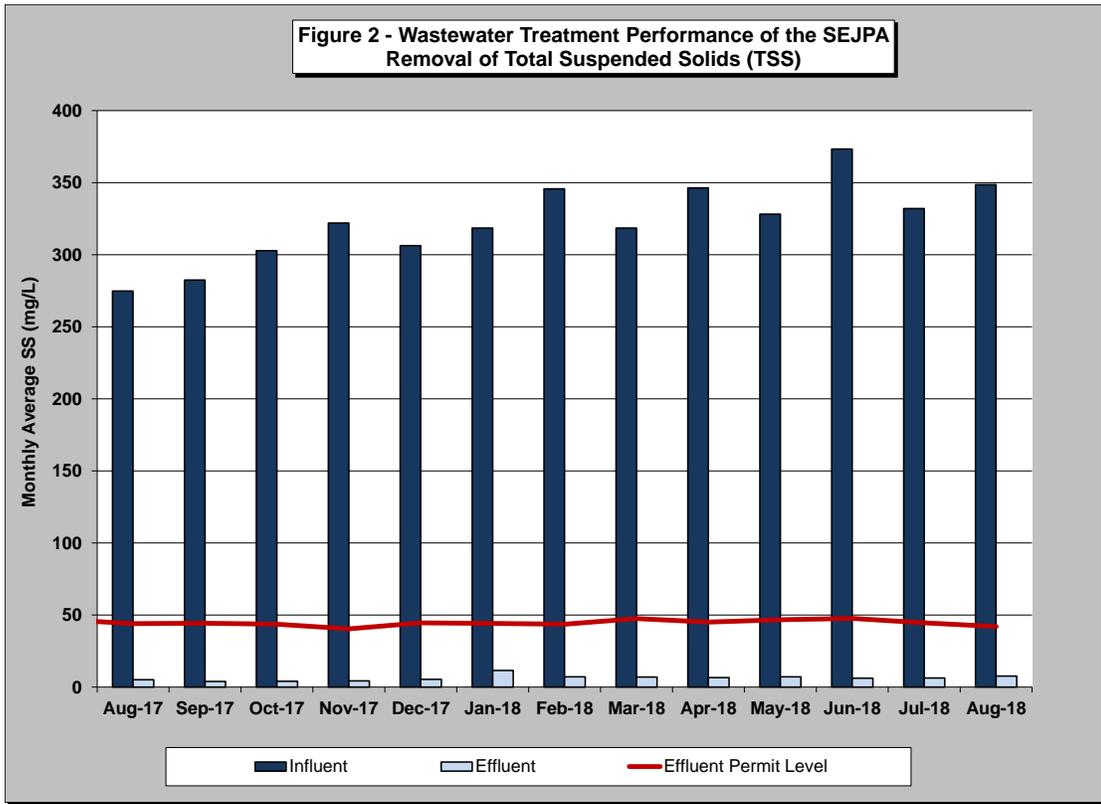
No action required. This memorandum is submitted for information only.

DISCUSSION

Monthly Treatment Plant Performance and Evaluation

Wastewater treatment for the San Elijo Joint Powers Authority (SEJPA) met all National Pollutant Discharge Elimination System (NPDES) ocean effluent limitation requirements for the month of August 2018. The primary indicators of treatment performance include the removal of Carbonaceous Biochemical Oxygen Demand (CBOD) and Total Suspended Solids (TSS). The SEJPA is required to remove a minimum of 85 percent of the CBOD and TSS from the wastewater. Treatment levels for CBOD and TSS were 98.2 and 97.8 percent removal, respectively, (as shown in Figure 1 and Figure 2).





Member Agency Flows

Presented below are the influent and effluent flows for the month of August. Average daily influent flows were recorded for each Member Agency. Total effluent flow was calculated for the San Elijo Water Reclamation Facility. The SEJPA commenced wastewater treatment services for the City of Del Mar on March 29, 2018.

	August	
	<u>Influent (mgd)</u>	<u>Effluent (mgd)*</u>
Cardiff Sanitary Division	1.210	0.686
City of Solana Beach	0.980	0.555
Rancho Santa Fe SID	0.119	0.067
City of Del Mar	0.534	0.303
Total San Elijo WRF Flow	2.843	1.611

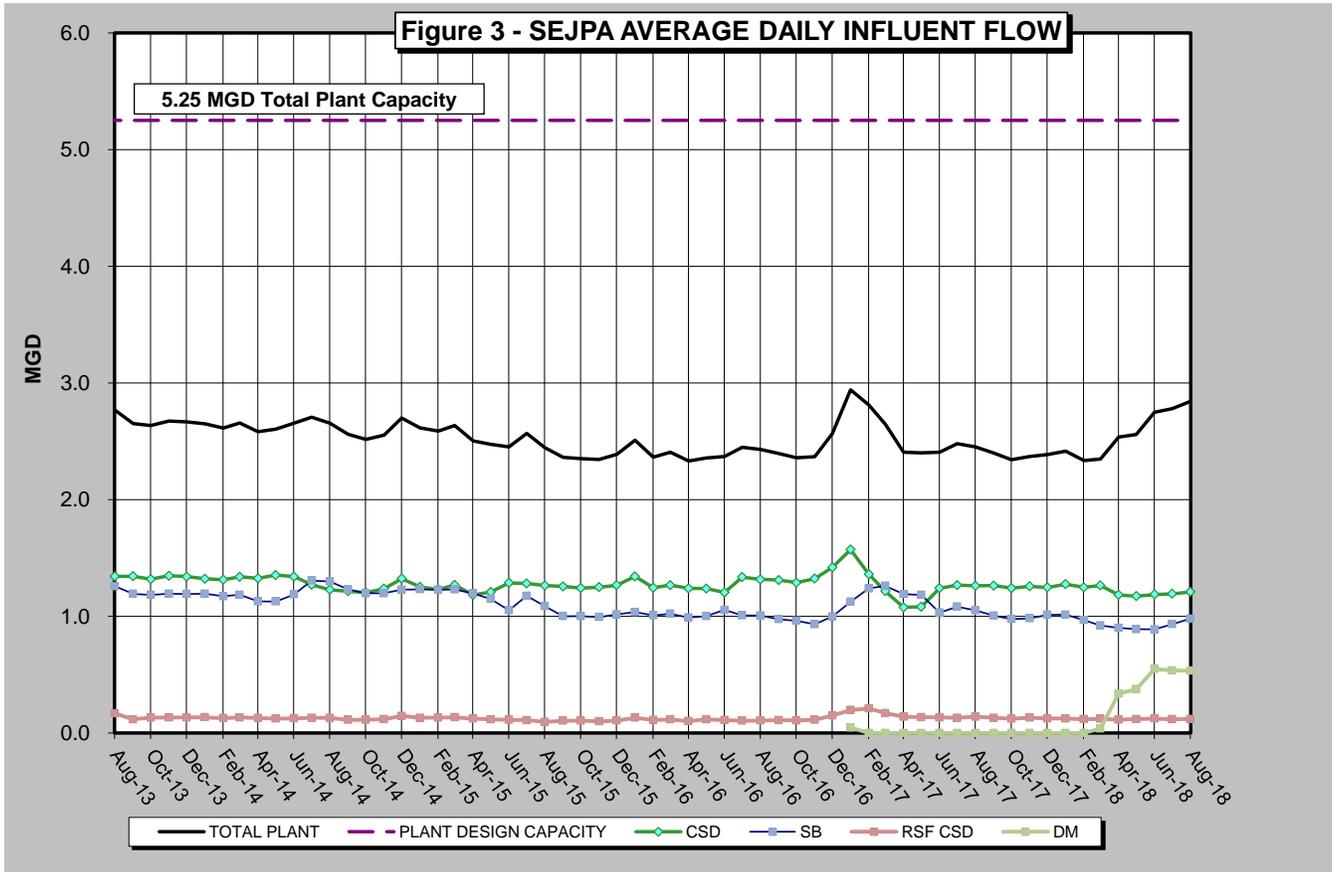
* Effluent is calculated by subtracting the recycled water production from the influent wastewater.

Table 1 (below) presents the historical average, maximum, and unit influent and effluent flow rates per month for each of the Member Agencies during the past 5 years. It also presents the number of connected Equivalent Dwelling Units (EDUs) for each of the Member Agencies during this same time period.

TABLE 1 - SAN ELIJO WATER RECLAMATION FACILITY MONTHLY REPORT - FLOWS AND EDUS

MONTH	AVERAGE DAILY INFLUENT FLOW RATE (MGD)					AVERAGE DAILY EFFLUENT FLOW RATE (MGD)					CONNECTED EDUS					AVERAGE UNIT INFLUENT FLOW RATE (GAL/EDU/DAY)							
	CSD	RSF	CSD	SB	DM	TOTAL PLANT	CSD	RSF	CSD	SB	DM	TOTAL PLANT	CSD EDUS	RSF EDUS	CSD EDUS	SB EDUS	DM EDUS	TOTAL EDUS	CSD	RSF	SB	DM	TOTAL PLANT
Jul-13	1.366	0.144	1.269			2.779	0.482	0.050	0.448			0.980	8,309	493	7,728			16,530	164	292	164		168
Aug-13	1.342	0.168	1.258			2.768	0.380	0.048	0.356			0.784	8,311	494	7,728			16,533	161	340	163		167
Sep-13	1.343	0.117	1.193			2.653	0.403	0.036	0.358			0.797	8,311	494	7,728			16,533	162	237	154		160
Oct-13	1.319	0.132	1.184			2.635	0.629	0.063	0.565			1.257	8,314	494	7,728			16,536	159	267	153		159
Nov-13	1.348	0.133	1.194			2.675	0.932	0.092	0.826			1.850	8,315	494	7,728			16,537	162	270	155		162
Dec-13	1.341	0.134	1.191			2.666	1.030	0.103	0.915			2.048	8,316	494	7,728			16,538	161	272	154		161
Jan-14	1.322	0.135	1.194			2.651	0.851	0.087	0.768			1.706	8,318	495	7,728			16,541	159	273	155		160
Feb-14	1.314	0.127	1.172			2.613	0.954	0.093	0.851			1.898	8,323	495	7,728			16,546	158	257	152		158
Mar-14	1.339	0.134	1.185			2.658	0.858	0.086	0.760			1.704	8,324	496	7,728			16,548	161	270	153		161
Apr-14	1.326	0.128	1.128			2.582	0.449	0.043	0.382			0.874	8,328	498	7,728			16,554	159	257	146		156
May-14	1.353	0.124	1.127			2.604	0.159	0.015	0.132			0.306	8,333	498	7,728			16,559	162	249	146		157
Jun-14	1.341	0.126	1.188			2.655	0.207	0.020	0.183			0.410	8,333	498	7,728			16,559	161	253	154		160
Jul-14	1.271	0.130	1.307			2.708	0.232	0.024	0.239			0.495	8,338	499	7,728			16,565	152	261	169		163
Aug-14	1.228	0.130	1.298			2.656	0.227	0.024	0.239			0.490	8,345	500	7,728			16,573	147	260	168		160
Sep-14	1.215	0.113	1.232			2.560	0.211	0.019	0.214			0.444	8,351	500	7,728			16,579	145	226	159		154
Oct-14	1.204	0.114	1.198			2.516	0.394	0.038	0.392			0.824	8,353	500	7,728			16,581	144	228	155		152
Nov-14	1.237	0.118	1.198			2.553	0.667	0.063	0.646			1.376	8,354	502	7,728			16,584	148	235	155		154
Dec-14	1.323	0.147	1.229			2.699	1.163	0.129	1.081			2.373	8,355	502	7,728			16,585	158	293	159		163
Jan-15	1.253	0.130	1.232			2.615	0.984	0.102	0.967			2.053	8,359	503	7,977			16,838	150	259	154		155
Feb-15	1.229	0.132	1.228			2.589	0.757	0.081	0.757			1.595	8,361	504	7,977			16,841	147	262	154		154
Mar-15	1.269	0.135	1.231			2.635	0.583	0.062	0.566			1.211	8,365	504	7,977			16,846	152	268	154		156
Apr-15	1.183	0.124	1.196			2.503	0.350	0.036	0.354			0.740	8,366	504	7,977			16,847	141	246	150		149
May-15	1.209	0.117	1.149			2.475	0.545	0.053	0.518			1.116	8,367	505	7,977			16,848	144	232	144		147
Jun-15	1.287	0.113	1.052			2.452	0.362	0.032	0.296			0.690	8,369	506	7,977			16,852	154	224	132		146
Jul-15	1.282	0.110	1.176			2.568	0.392	0.034	0.359			0.785	8,370	510	8,003			16,883	153	216	147		152
Aug-15	1.264	0.095	1.087			2.446	0.315	0.023	0.271			0.609	8,371	510	8,003			16,884	151	186	136		145
Sep-15	1.256	0.105	1.001			2.362	0.457	0.038	0.364			0.859	8,372	511	8,003			16,885	150	206	125		140
Oct-15	1.243	0.106	1.002			2.351	0.681	0.058	0.549			1.288	8,373	511	8,003			16,886	148	208	125		139
Nov-15	1.250	0.100	0.994			2.344	0.792	0.063	0.630			1.485	8,376	511	8,003			16,889	149	196	124		139
Dec-15	1.266	0.107	1.016			2.389	0.971	0.082	0.780			1.833	8,377	511	8,003			16,891	151	210	127		141
Jan-16	1.342	0.131	1.037			2.510	1.189	0.116	0.918			2.223	8,380	511	8,003			16,894	160	257	130		149
Feb-16	1.245	0.112	1.008			2.365	0.780	0.070	0.631			1.481	8,383	512	8,003			16,897	149	219	126		140
Mar-16	1.267	0.116	1.023			2.406	0.763	0.070	0.616			1.449	8,388	512	8,003			16,903	151	227	128		142
Apr-16	1.240	0.102	0.990			2.332	0.675	0.055	0.539			1.269	8,389	512	8,003			16,904	148	199	124		138
May-16	1.238	0.117	1.002			2.357	0.505	0.048	0.409			0.962	8,389	512	8,003			16,904	148	229	125		139
Jun-16	1.205	0.111	1.055			2.371	0.362	0.033	0.317			0.712	8,390	514	8,003			16,907	144	216	132		140
Jul-16	1.336	0.105	1.008			2.449	0.586	0.046	0.442			1.074	8,392	514	8,020			16,926	159	204	126		145
Aug-16	1.317	0.107	1.007			2.431	0.647	0.053	0.495			1.195	8,393	516	8,020			16,929	157	207	126		144
Sep-16	1.311	0.110	0.975			2.396	0.601	0.050	0.447			1.098	8,394	516	8,020			16,930	156	213	122		142
Oct-16	1.289	0.108	0.962			2.359	0.521	0.043	0.389			0.953	8,397	517	8,020			16,933	154	209	120		139
Nov-16	1.323	0.113	0.932			2.368	0.730	0.062	0.514			1.306	8,403	517	8,020			16,940	157	219	116		140
Dec-16	1.419	0.150	0.998			2.567	1.179	0.125	0.829			2.133	8,406	549	8,020			16,975	169	273	124		151
Jan-17	1.572	0.197	1.125	0.047		2.941	1.489	0.186	1.066	0.045		2.786	8,409	549	8,020	1,716		18,694	187	359	140	142	157
Feb-17	1.361	0.211	1.240	0.000		2.812	1.236	0.192	1.126	0.000		2.554	8,409	549	8,020	1,716		18,694	162	384	155	0	166
Mar-17	1.215	0.170	1.261	0.000		2.646	0.856	0.120	0.889	0.000		1.865	8,413	550	8,020	1,716		18,698	144	309	157	0	156
Apr-17	1.077	0.139	1.190	0.000		2.406	0.841	0.108	0.929	0.000		1.878	8,414	551	8,020	1,716		18,700	128	252	148	0	142
May-17	1.082	0.136	1.184	0.000		2.402	0.842	0.106	0.922	0.000		1.870	8,416	551	8,049	1,716		18,732	129	247	147	0	141
Jun-17	1.241	0.134	1.032	0.000		2.407	0.980	0.106	0.815	0.000		1.901	8,420	551	8,049	1,716		18,737	147	243	128	0	141
Jul-17	1.267	0.130	1.083	0.000		2.480	0.802	0.082	0.685	0.000		1.569	8,421	551	8,061	1,716		18,749	150	236	134	0	146
Aug-17	1.262	0.139	1.051	0.000		2.452	0.852	0.094	0.709	0.000		1.655	8,423	553	8,061	1,716		18,753	150	251	130	0	144
Sep-17	1.264	0.130	1.006	0.000		2.400	0.866	0.089	0.689	0.000		1.644	8,427	555	8,061	1,716		18,759	150	234	125	0	141
Oct-17	1.242	0.123	0.977	0.000		2.342	0.543	0.053	0.427	0.000		1.023	8,431	555	8,061	1,716		18,763	147	222	121	0	137
Nov-17	1.257	0.131	0.983	0.000		2.371	0.661	0.069	0.517	0.000		1.247	8,431	554	8,061	1,716		18,762	149	237	122	0	139
Dec-17	1.248	0.125	1.014	0.000		2.387	0.693	0.070	0.563	0.000		1.326	8,431	554	8,061	1,716		18,762	148	226	126	0	140
Jan-18	1.276	0.125	1.015	0.000		2.416	0.886	0.087	0.705	0.000		1.678	8,435	555	8,061	1,716		18,767	151	225	126	0	142
Feb-18	1.249	0.118	0.968	0.000		2.335	0.601	0.056	0.466	0.000		1.123	8,441	555	8,061	1,716		18,773	148	213	120	0	137
Mar-18	1.265	0.122	0.922	0.039		2.348	0.857	0.083	0.625	0.026		1.591	8,451	555	8,061	1,716		18,782	150	220	114	273	125
Apr-18	1.184	0.115	0.901	0.337		2.537	0.627	0.061	0.477	0.179		1.344	8,451	559	8,061	1,716		18,786	140	206	112	196	135
May-18	1.173	0.119	0.890	0.376		2.558	0.566	0.057	0.430	0.182		1.235	8,461	562	8,061	1,716		18,799	139	212	110	219	136
Jun-18	1.188	0.124	0.888	0.549		2.749	0.557	0.058	0.417	0.258		1.290	8,466	562	8,061	1,716		18,804	140	221	110	320	146
Jul-18	1.193	0.118	0.93																				

Figure 3 (below) presents the 5-year historical average daily flows per month for each Member Agency. This is to provide a historical overview of the average treated flow by each agency. Also shown in Figure 3 is the total wastewater treatment capacity of the plant, 5.25 mgd, of which each Member Agency has the right to 2.2 mgd, Rancho Santa Fe Community Service District leases 0.25 mgd, and the City of Del Mar leases 0.60 mgd.



City of Escondido Flows

The average and peak flow rate for the month of August 2018 from the City of Escondido's Hale Avenue Resource Recovery Facility, which discharges through the San Elijo Ocean Outfall, is reported below.

	Flow (mgd)
Escondido (Average flow rate)	6.88
Escondido (Peak flow rate)	17.7

Connected Equivalent Dwelling Units

The City of Solana Beach updated the connected EDUs number that is reported to the SEJPA in July 2018. The City of Encinitas and Rancho Santa Fe CSD report their connected EDUs every month. The City of Del Mar updated their connected EDUs in July 2018. The number of EDUs connected for each of the Member Agencies and lease agencies is as follows:

	Connected (EDU)
Cardiff Sanitary Division	8,481
Rancho Santa Fe SID	563
City of Solana Beach	7,747
San Diego (to Solana Beach)	337
City of Del Mar	2,611
Total EDUs to System	19,737

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

October 8, 2018

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: SAN ELIJO WATER RECLAMATION PROGRAM – MONTHLY REPORT

RECOMMENDATION

No action required. This memorandum is submitted for information only.

DISCUSSION

Recycled Water Production

For the month of August 2018, recycled water demand was 210.11 acre-feet (AF), which was met using 210.02 AF of recycled water and 0.09 AF of supplementation with potable water.

August was approximately at budget for recycled water production and delivery, with actual above budget expectations by 45 AF or 10 percent for the first 2 months of the fiscal year.

Figure 1 (attached) provides monthly demands for recycled water since deliveries began in September 2000. Figure 2 (attached) provides a graphical view of annual recycled water demand spanning the last 17 fiscal years. Figure 3 (attached) shows the monthly recycled water demand for each August since the program began. Figure 4 (attached) compares budget versus actual recycled water sales for FY 2018-19; showing sales are starting the year above budget.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

Figure 1 - MONTHLY RECYCLED WATER DEMAND

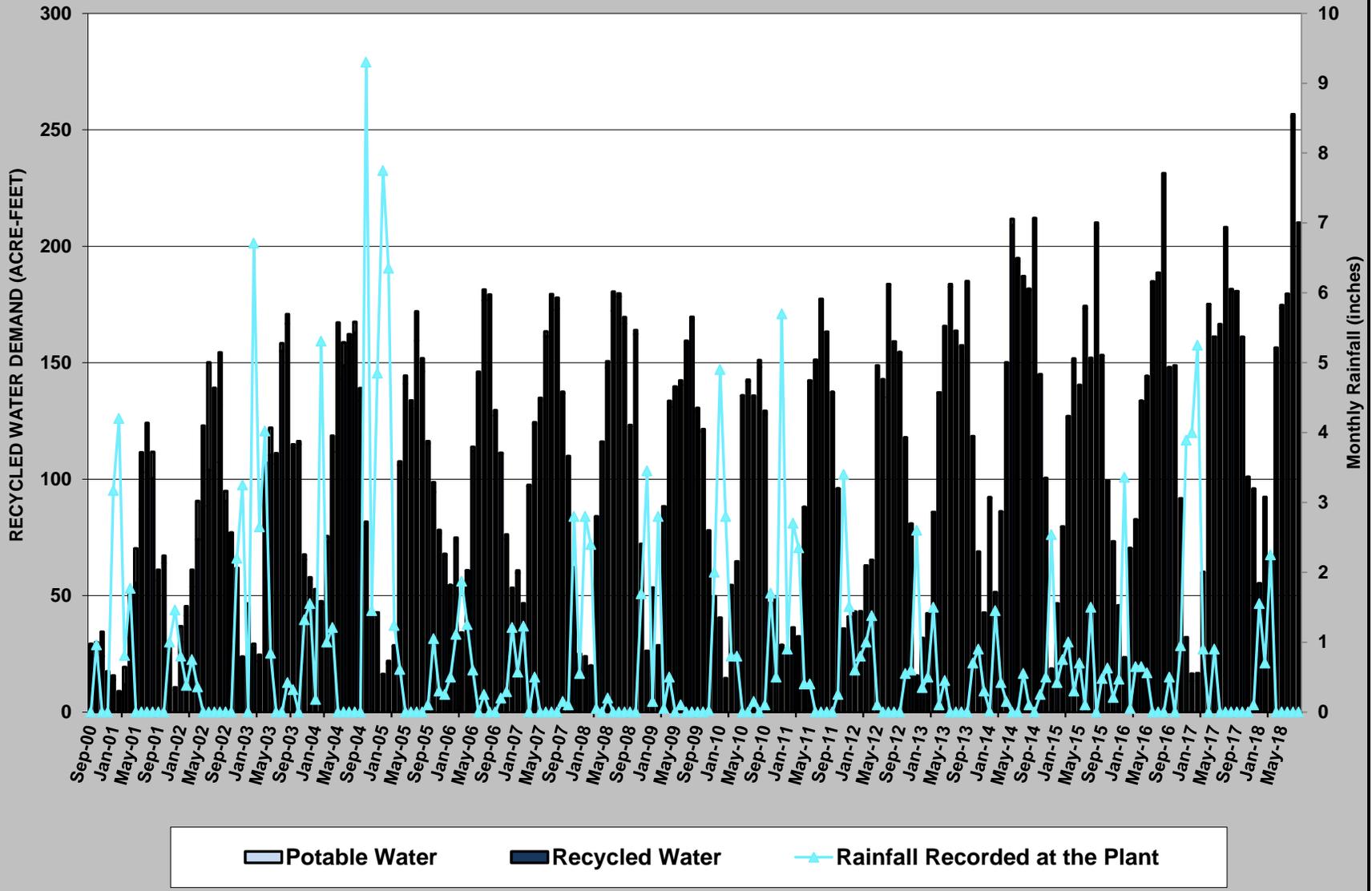


Figure 2 - RECYCLED WATER DEMAND by FISCAL YEAR

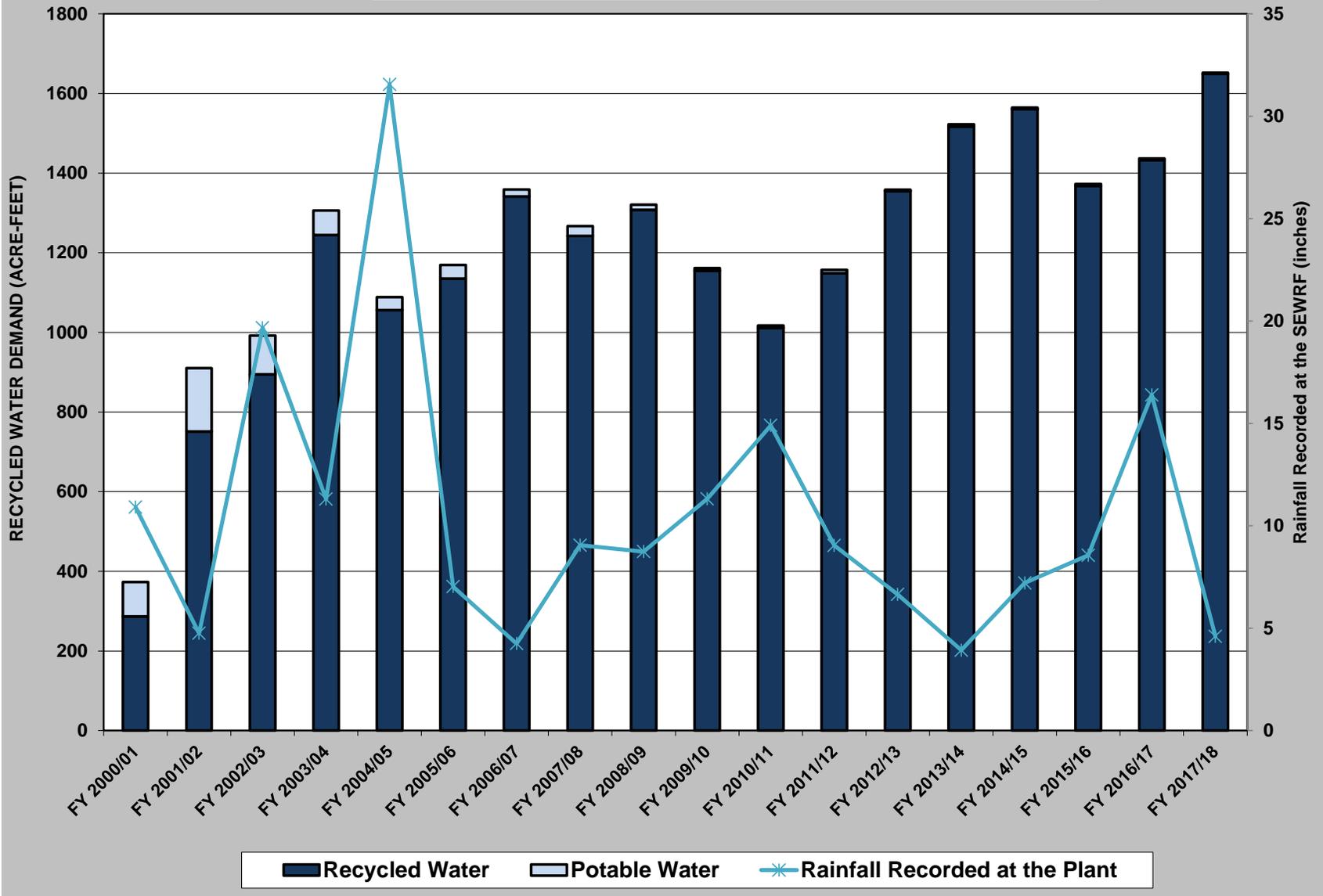


Figure 3 - AUGUST RECYCLED WATER DEMAND

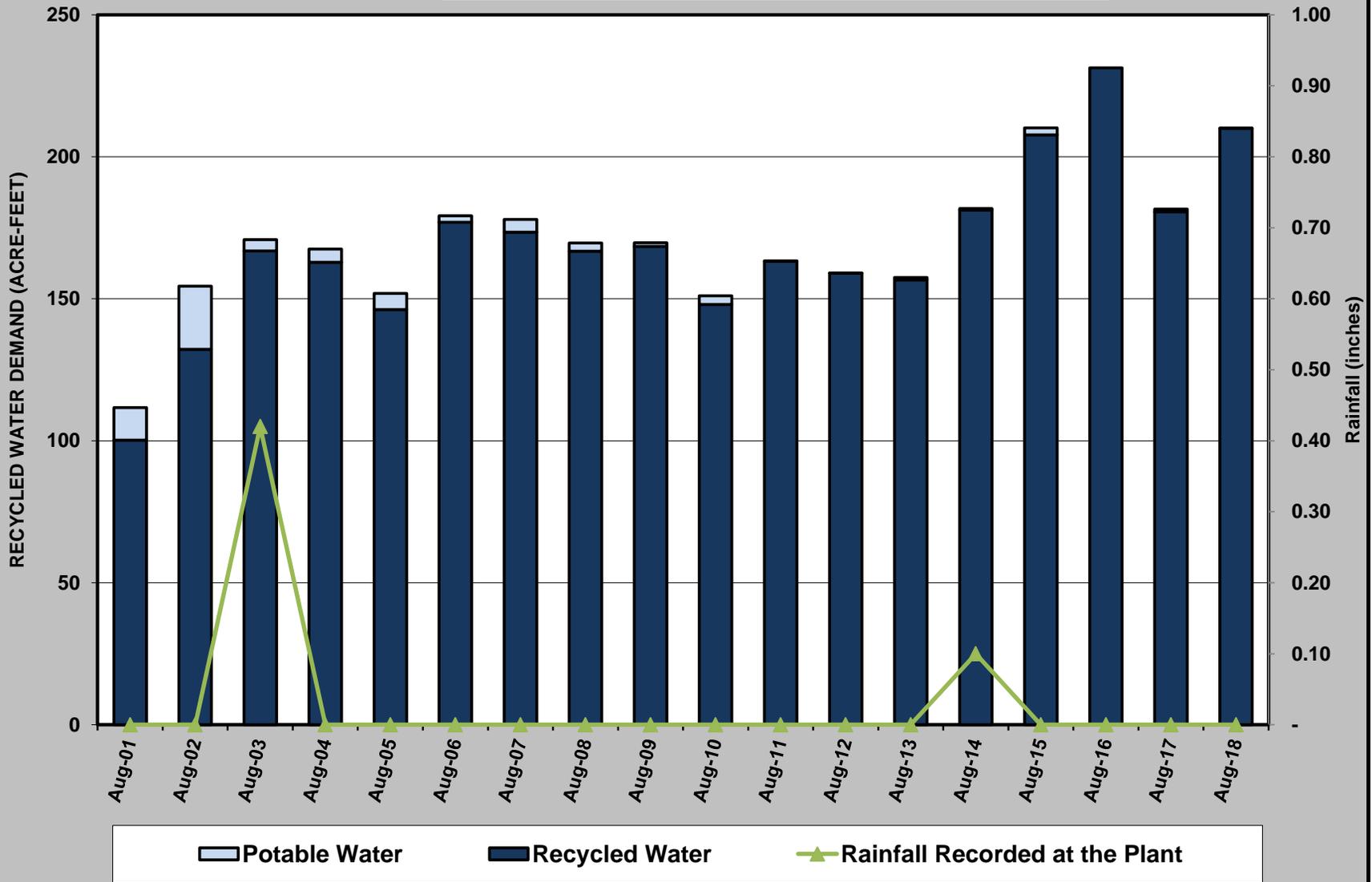
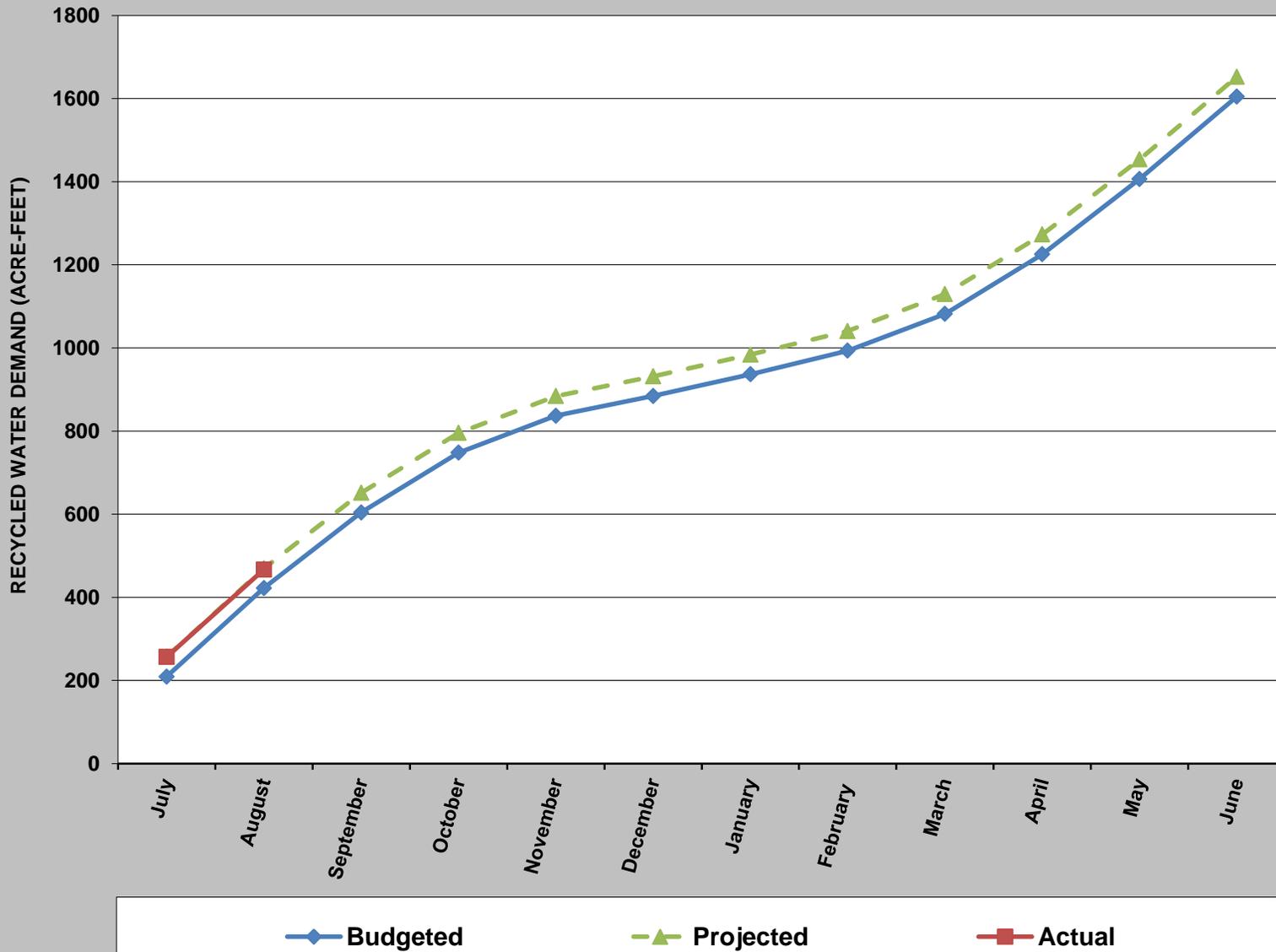


Figure 4 - RECYCLED WATER DEMAND BUDGET vs ACTUAL



SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

October 8, 2018

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: MAINTENANCE TRUCK AND SLUDGE TRACTOR CALIFORNIA AIR
RESOURCES BOARD EMISSIONS COMPLIANCE

RECOMMENDATION

No action required. This memorandum is submitted for information only.

BACKGROUND

On December 12, 2008, the California Air Resources Board (ARB/Board) approved the Truck and Bus regulation to significantly reduce particulate matter and oxides of nitrogen emissions from existing diesel vehicles operating in California. The Truck and Bus regulation affects individuals, private companies, and government agencies that own light and heavy diesel trucks and buses that operate in California. Trucks and buses with a Gross Vehicle Weight Rating (GVWR) of 14,001 to 26,000 lbs. have compliance requirements that started January 1, 2015, and require most of these vehicles to be replaced or modified by January 1, 2020.

The San Elijo Joint Powers Authority (SEJPA) owns and operates two vehicles that are affected by this rule. One is a 26,000 lb. GVWR maintenance truck that was purchased in 2003 and the other is a 50,000 lb. GVWR sludge tractor that was purchased in 1989.



2003 Ford F650 GVWR 26,000



1989 Volvo Diesel Truck GVWR 50,000

DISCUSSION

To meet the ARB/Board requirements, SEJPA evaluated retrofitting these vehicles with new engines and emission systems vs. the cost of replacement. Due to the age and condition of the vehicles, replacement is recommended.

SEJPA is preparing bid documents that outline desired vehicle specifications including updated safety requirements. SEJPA will be publishing bid notices and placing the bid documents on PlanetBids.com electronically for vendors.

Both of these vehicles will require a substantial amount of time for procurement as a result of demand caused by the regulation and for the vendor to build the vehicle to meet SEJPA specifications. SEJPA will bring the best value vendor to the Board for consideration at a future Board meeting. At that Board meeting, staff will request that the Board authorize entering into an agreement to purchase or lease the vehicles, and take delivery in FY 2019-20 where the expense will be budgeted. This will commit SEJPA to the purchase and allow the vendor to build the vehicles for SEJPA to meet the ARB/Board replacement schedule.

FINANCIAL IMPACT

Staff estimates that the maintenance truck will be about \$170,000 to \$195,000, and the sludge truck tractor will be about \$100,000 and \$115,000. These estimates are subject to change dependent on bids. The lowest responsible, responsive bid will be presented at a future Board meeting for approval consideration.

No action required. This memorandum is submitted for information only.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

October 8, 2018

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: ACCEPTANCE OF COMPLETION – CONSTRUCTION CONTRACT FOR THE
LAND OUTFALL REPLACEMENT PROJECT

RECOMMENDATION

It is recommended that the Board of Directors:

1. Authorize the General Manager to accept the Land Outfall Replacement Project on behalf of the SEJPA and record the project Notice of Completion; and
2. Discuss and take other action as appropriate.

BACKGROUND

The San Elijo Land Outfall Replacement was a priority capital project for the SEJPA. The land outfall was constructed in 1965 and due to its age and the surrounding soil type, the pipeline was estimated to be at the end of its useful life. This 30-inch diameter pipeline conveys, on average, 10 million gallons per day of treated wastewater from the cities of Encinitas, Solana Beach, Del Mar, and Escondido for ocean disposal approximately 1.5 miles from shore.

The project included installation of (approximate lengths) 2,600 feet of 30-inch diameter HDPE pipe via horizontal directional drilling (HDD), 400 feet of 30-inch pipe via open trench construction, 300 feet of dual 10-inch force mains via open trench construction, and 110 feet of 60-inch steel casing under Coast Highway. The HDD began at Cardiff State Beach and continued beneath Coast Highway (through 60-inch steel casing), the San Elijo Lagoon, NCTD railroad, the Nature Center, and Manchester Avenue before daylighting at the San Elijo Water Reclamation Facility (SEWRF). Tie-ins to the new pipeline were made at the beach and at the SEWRF.

DISCUSSION

The Land Outfall Replacement Project construction contract was awarded to J.R. Filanc Construction Company (“Filanc”) for an amount of \$8,553,000 on April 21, 2017.

During the construction of the Project, the contractor encountered conditions that were different than depicted in the construction documents as well as performed additional work at the

direction of the SEJPA. Construction change orders approved by the SEJPA Board to date resulted in an additional project cost of \$68,041 or (1%) of the contract value. Other potential change orders presented by the Contractor have not yet reached a mutually acceptable conclusion, but may be presented to the Board at a subsequent Board meeting, once resolved.

Acceptance of this project by the SEJPA and the filing of the Notice of Completion (NOC) will complete the contract with Filanc. SEJPA's legal counsel will file the NOC with the San Diego County Clerk. The final payment will be made to the Contractor after acceptance and recordation of the NOC.

FINANCIAL IMPACT

The total budget for the project was \$9,679,175 which includes construction, engineering and environmental compliance during construction, construction management and inspection, and 5% project contingency. The current cost of the project is \$9,729,501, resulting in the project being completed 1% over budget.

To summarize, project construction was successfully completed and implemented into service, with no reported injuries. The work by Filanc, and the entire project team, was of good quality.

It is therefore recommended that the Board of Directors:

1. Authorize the General Manager to accept the Land Outfall Replacement Project on behalf of the SEJPA and record the project Notice of Completion; and
2. Discuss and take other action as appropriate.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager