

**LAS VIRGENES - TRIUNFO
JOINT POWERS AUTHORITY
AGENDA**

4232 Las Virgenes Road, Calabasas, CA 91302

CLOSING TIME FOR AGENDA IS 8:30 A.M. ON THE TUESDAY PRECEDING THE MEETING. GOVERNMENT CODE SECTION 54954.2 PROHIBITS TAKING ACTION ON ITEMS NOT ON POSTED AGENDA UNLESS AN EMERGENCY, AS DEFINED IN GOVERNMENT CODE SECTION 54956.5 EXISTS OR UNLESS OTHER REQUIREMENTS OF GOVERNMENT CODE SECTION 54954.2(B) ARE MET.

5:00 PM

February 1, 2016

PLEDGE OF ALLEGIANCE

1 CALL TO ORDER AND ROLL CALL

2 CHAIR/VICE CHAIR

A Appointment of JPA Chair and Vice Chair (Pg. 3)

Confirm the appointment of Las Virgenes Municipal Water District Director Glen Peterson as Chair, and Triunfo Sanitation District Director Michael Paule as Vice Chair of the Las Virgenes - Triunfo Joint Powers Authority for calendar year 2016.

3 APPROVAL OF AGENDA

4 PUBLIC COMMENTS

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

5 CONSENT CALENDAR

A Minutes: Regular JPA Meeting of January 4, 2016 (Pg. 4)

Approve.

6 ACTION ITEMS

A Tapia Treatment Process Feasibility Study: Summary of Findings (Pg. 10)

Appropriate an additional \$13,994 and approve an amendment to the Professional Services Agreement with Hazen and Sawyer, in the amount of \$13,994, for completion of the Tapia Treatment Process Feasibility Study.

B Infrastructure Investment Plan: Fiscal Years 2016-2017 through 2020-2021 (Pg. 13)

Receive and file the Infrastructure Investment Plan for Fiscal Years 2016-2017 through 2020-2021.

C Primary Clarifier Tank Nos. 2 and 3 Rehabilitation Project: Approval of Request for Proposals (Pg. 83)

Approve the Request for Proposals for evaluation and design services for the Primary Clarifier Tank Nos. 2 and 3 Rehabilitation Project.

D Budget Planning Calendar for Fiscal Year 2016-17 (Pg. 90)

Receive and file the Budget Planning Calendar and provide feedback on a proposal for development of a two-year budget plan.

E Financial Review: Second Quarter of Fiscal Year 2015-16 (Pg. 93)

Receive and file the financial review for the second quarter of Fiscal Year 2015-16.

7 BOARD COMMENTS

8 ADMINISTERING AGENT/GENERAL MANAGER REPORT

9 FUTURE AGENDA ITEMS

10 INFORMATION ITEMS

A Tapia NPDES Permit Renewal and Malibu Creek TMDL Implementation Plan: Status Report (Pg. 101)

11 PUBLIC COMMENTS

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

12 CLOSED SESSION

A Conference with District Counsel – Existing Litigation (Government Code Section 54956.9(a)):

Las Virgenes - Triunfo Joint Powers Authority v. United States Environmental Protection Agency and Heal the Bay, Inc. v. Lisa P. Jackson

13 ADJOURNMENT

Pursuant to Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and applicable federal rules and regulations, requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting, should be made to the Executive Assistant/Clerk of the Board in advance of the meeting to ensure availability of the requested service or accommodation. Notices, agendas, and public documents related to the Board meetings can be made available in appropriate alternative format upon request.

February 1, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: General Manager

Subject : Appointment of JPA Chair and Vice Chair

SUMMARY:

The Joint Powers Authority, Joint Exercise of Powers Agreement, Section 4, states "The Chairs of the two (2) parties' governing boards will alternate annually as Chair and Vice Chair, respectively, of the meetings." Based on this provision, the Chair of the JPA for calendar year 2016 shall be the Chair of the Las Virgenes Municipal Water District Board, and the Vice Chair of the JPA shall be the Chair of the Triunfo Sanitation District Board. No action by the JPA Board is necessary other than the respective Chairs of the parties shall assume their roles on the JPA Board at this meeting.

RECOMMENDATION(S):

Confirm the appointment of Las Virgenes Municipal Water District Director Glen Peterson as Chair, and Triunfo Sanitation District Director Michael Paule as Vice Chair of the Las Virgenes - Triunfo Joint Powers Authority for calendar year 2016.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

Prepared by: Josie Guzman, CMC, Executive Assistant/Clerk of the Board

**LAS VIRGENES – TRIUNFO
JOINT POWERS AUTHORITY
MINUTES
REGULAR MEETING**

5:00 PM

January 4, 2016

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Chair James Wall.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **5:00 p.m.** by Chair James Wall in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road in Calabasas, California. Josie Guzman, Clerk of the Board, conducted the roll call.

Present: Director(s): Caspary, Iceland, Lewitt, McReynolds, Orkney, Paule, Peterson, Polan, Renger, and Wall.

Absent: Director(s): None.

2. APPROVAL OF AGENDA

Director Paule moved to approve the agenda as presented. Motion seconded by Director Renger. Motion carried unanimously.

3. PUBLIC COMMENTS

None.

4. CONSENT CALENDAR**A Minutes: Special JPA Meeting of November 30, 2015: Approve**

Director Peterson moved to approve the Consent Calendar as presented. Motion seconded by Director McReynolds. Motion carried by the following vote:

AYES: Caspary, Lewitt, McReynolds, Paule, Peterson, Polan, Renger, and Wall.

NOES: None.

ABSTAIN: Iceland and Orkney.

5. ACTION ITEMS

A 2016 JPA Board Meeting Calendar: Reschedule October Meeting

Consider cancelling the regular JPA Board meeting on October 3, 2016, and rescheduling the meeting for an alternate date.

It was the consensus of the Board to cancel the October 3, 2016 regular JPA Board meeting, and schedule a special JPA Board meeting on October 5, 2016, at 5:00 p.m., at the LVMWD Board Room.

B Farm Sprayfield Operation and Maintenance: Renewal of Agreement

Authorize the Administering Agent/General Manager to execute a one-year agreement with W. Litten Land Preparation for the operation and maintenance of the Rancho Las Virgenes Farm, in an amount not to exceed \$250,000.

Administering Agent/General Manager David Pedersen presented the report. He responded to questions related to the contract amount and the potential for increased cost due to the upcoming rainy season.

Director Paule moved to approve Item 5B as presented. Motion seconded by Director Peterson. Motion carried by the following vote:

AYES: Caspary, Iceland, Lewitt, McReynolds, Paule, Peterson, Polan, Renger, and Wall.

NOES: Orkney.

ABSTAIN: None.

C Centrate Equalization Tank Project: Adoption of Mitigated Negative Declaration and Call for Bids

Adopt the Mitigated Negative Declaration, including a Mitigation Monitoring and Reporting Program; authorize the Administering Agent/General Manager to file a Notice of Determination with the Los Angeles County Recorder; and authorize a Call for Bids for the Centrate Equalization Tank Project.

Administering Agent/General Manager David Pedersen presented the report.

A discussion ensued regarding inclusion of the JPA's address under Section 2, Environmental Checklist of the Initial Study/Mitigated Negative Declaration (IS/MND), and with inconsistency in the construction schedule. Administering Agent/General Manager David Pedersen responded that staff would include the JPA's address in the Environmental Checklist. He also stated that the IS/MND was prepared some time ago, and the project schedule of March to September 2016 was the estimated project completion schedule.

Director Peterson moved to approve Item 5C as presented. Motion seconded by Director Orkney. Motion carried unanimously.

D Rancho Energy Recovery System: Power Purchase Agreement Amendment No. 2

Authorize the Administering Agent/General Manager to execute proposed Amendment No. 2 to the Agreement for Energy Recovery Services with CHPCE Las Virgenes, LLC.

Administering Agent/General Manager David Pedersen presented the report. He responded to questions related to excess digester gas, which would be utilized by CHPCE Las Virgenes, LLC to burn and produce energy.

Director McReynolds moved to approve Item 5D as presented. Motion seconded by Director Caspary. Motion carried unanimously.

E Recycled Water Seasonal Storage Plan of Action and Tapia NPDES Permit Renewal: Communications and Public Outreach

Authorize the Administering Agent/General Manager to execute a Professional Services Agreement with Katz & Associates for communication and outreach services, in an amount not to exceed \$100,000, for the Recycled Water Seasonal Storage Plan of Action and Tapia NPDES Permit renewal; and appropriate \$100,000 to fund the work.

Administering Agent/General Manager David Pedersen presented the report.

A discussion ensued regarding concerns with the cost of the communication and outreach services agreement and whether in-house staff could be utilized as an alternative; whether the language could be changed in the circle in the Objective portion of the *Assessing Water Quality Standards in the Malibu Creek Watershed* handout to delete the reference to “benthic macroinvertebrate community health”; and ensuring that staff discusses Oak Park storm water issues with the County of Ventura. It was the consensus of the Board to make the language in the circle more general such as, “Maximize reuse and improve watershed health.”

Director Peterson moved to approve Item 5E as amended. Motion seconded by Director Caspary. Motion carried by the following vote:

AYES: Caspary, Iceland, Lewitt, McReynolds, Peterson, Renger, and Wall.

NOES: Orkney, Paule, and Polan.

ABSTAIN: None.

6. BOARD COMMENTS

Director McReynolds requested that staff bring back information regarding JPA facilities that lack necessary redundancies.

Director Orkney inquired whether any of the Las Virgenes MWD Board members were planning on attending the California Association of Sanitation Agencies (CASA) Conference. The Las Virgenes MWD Board members indicated that none of them would be attending the conference.

Director Orkney referred to Option No. 4 of the Recycled Water Seasonal Storage Project Action Plan and requested that staff ensure that piping was included as part of the study to take indirect potable water to the Oak Park Water Service pipes.

Director Caspary requested that staff circulate the Santa Monica Bay Restoration Commission's State of the Watershed Report to the JPA Board once it is released.

Director Polan inquired regarding the number of customers who have expressed concern with the District's water budgets. He retracted his question as this was not a JPA-related issue.

Director Paule inquired regarding the status of studying inflow and infiltration during the rainy season. Administering Agent/General Manager David Pedersen responded that staff would be monitoring and studying the impact of rain at various locations.

7. ADMINISTERING AGENT/GENERAL MANAGER REPORT

Administering Agent/General Manager David Pedersen recommended that the JPA Board schedule a special meeting on January 27, 2016, at 5:00 p.m., for the Recycled Water Seasonal Storage Project Basis of Design Workshop No. 2, and invite all of the stakeholders to this meeting. It was the consensus of the Board to schedule the workshop on January 27, 2016, at 5:00 p.m., in the Board Room.

8. FUTURE AGENDA ITEMS

None.

9. INFORMATION ITEMS

A Woodland Hills Water Recycling Project: Project Status Report for Preliminary Design and Environmental Review

Administering Agent/General Manager David Pedersen presented the report and responded to questions related to the timeframe for making a decision on the pipe diameter, which should be finalized by March.

Director of Facilities and Operations David Lippman responded to a question regarding pricing for the water by stating that the JPA Board previously approved the framework for pricing, which would be the wholesale cost of recycled water plus a component for potable supplement.

10. PUBLIC COMMENTS

None.

11. CLOSED SESSION

A Conference with District Counsel – Existing Litigation (Government Code Section 54956.9(a)):

Las Virgenes - Triunfo Joint Powers Authority v. United States Environmental Protection Agency and Heal the Bay, Inc. v. Lisa P. Jackson

The Board recessed to Closed Session at **6:28 p.m.** and reconvened to Open Session at **6:57 p.m.**

District Counsel Keith Lemieux reported the Board authorized a budget for District Counsel to file a writ proceeding in federal court in the litigation against the United States Environmental Protection Agency.

12. ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **6:58 p.m.**

James Wall, Chair

ATTEST:

Glen Peterson, Vice Chair

February 1, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Tapia Treatment Process Feasibility Study: Summary of Findings

SUMMARY:

On August 5, 2013, the JPA Board authorized Hazen and Sawyer to conduct a treatment process feasibility study to determine if the Tapia Water Reclamation Facility could meet effluent limitations specified in the USEPA's *2013 Malibu Creek and Lagoon TMDL for Sedimentation and Nutrients to Address Benthic Community Impairments* using existing biological nutrient removal processes. This item provides a summary of Hazen and Sawyer's findings and recommends an additional appropriation of \$13,994 to finalize the written report.

The study concluded that Tapia is not capable of achieving the summer season TMDL limits using biological nutrient removal processes; instead, a very expensive reverse osmosis treatment facility would be required as previously indicated by MWH Global. However, the winter season limits could be met through biological nutrient removal at a capital cost of \$49.8 million, with an additional \$7.2 million for storm flow equalization, for a total estimated cost of \$57.0 million. Lynn Grijalva of Hazen and Sawyer will attend the Board meeting to present the results of the study.

RECOMMENDATION(S):

Appropriate an additional \$13,994 and approve an amendment to the Professional Services Agreement with Hazen and Sawyer, in the amount of \$13,994, for completion of the Tapia Treatment Process Feasibility Study.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

No

FINANCIAL IMPACT:

An additional appropriation of \$13,994 is required to complete the written report. The cost for

Phase I of the study was \$110,000. A large portion of this work was for outside water quality sampling and analyses because there were two vacancies in the JPA's laboratory. In April 2015, \$61,853 was authorized for completion of Phase II of the work. The total cost of the study, including the additional appropriation, would be \$185,847.

DISCUSSION:

Background and Scope of Work:

The *2013 Malibu Creek and Lagoon TMDL for Sedimentation and Nutrients to Address Benthic Community Impairments* stated that "...Tapia has implemented advanced nutrient removal technology, which should be capable of achieving the discharge specific WLA." However, the TMDL did not explain the basis for the USEPA's conclusion. As a result, the JPA Board authorized Hazen and Sawyer, under contract with Lemieux & O'Neill, to conduct a treatment process feasibility study to determine if it was feasible to meet the Phase I and Phase II effluent limits in the TMDL using existing biological treatment removal processes[1]. This first phase of work included intensive process sampling and modeling. In April 2015, the Board authorized additional funding to finalize and summarize the Phase 1 study and evaluate improvements to better manage wet weather flows.

Summary of Findings:

The feasibility study concluded that the biological process at Tapia could be modified to achieve the Phase I and Phase II winter limits. Reconfiguration of the existing aerated and anoxic zones using internal baffles, additional mixed liquor recycle pumps and use of supplemental carbon would make it possible to reduce nitrogen to the Phase I and Phase II winter limits. Chemical precipitation using alum would be required to reduce phosphorus levels to the Phase I and Phase II winter limits. Summer time limits could not be met using the existing treatment processes and would require new processes such as reverse osmosis.

Two of the most significant issues with meeting the winter limits are: (1) the plant would need to perform consistently at a very high level to achieve compliance, and (2) there would be a significant increase in solids production. Sustaining treatment plant performance at a very high level leaves little room for error or upsets such as those associated with equipment failures or hydraulic upsets. To address this risk, large investments would need to be made in updating and replacing facilities at Tapia.

Further, solids production would increase significantly: 22% on an annual average and 50% on a maximum month for Phase I compliance, and 35% on an annual average and 100% at maximum month for Phase II compliance. The additional solids would need to be treated at Rancho, requiring its expansion.

Estimated Capital Costs:

Capital costs for these improvements are estimated to be \$49.8 million, with an additional \$7.2 million for storm flow equalization, for a total estimated cost of \$57.0 million. Also, there would be significant increases in operating costs and for additional staffing.

For comparison, the April 2013 update to the 2005 Nutrient Reduction Measures for Low Total Nitrogen and Phosphorus Report concluded that limits of 3.5 to 4.0 mg/L TN and 0.4 mg/L TP could be achieved by replacing the secondary clarifiers and tertiary filters with a membrane bioreactor (MBR) process. The estimated capital cost was \$98 million with an additional \$189 million in capital for a dual-pass reverse osmosis facility that would be necessary to achieve

the summer limits of 1 mg/L TN and 0.1 mg/L TP.

[1] Phase I winter limits are 6.0 mg/L TN and 0.4 mg/L TP. Phase II winter limits are 4.0 mg/L TN and 0.2 mg/L TP. Summer limits are 1.0 mg/L TN and 0.1 mg/L TP.

Prepared by: David R. Lippman, P.E., Director of Facilities and Operations

February 1, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Infrastructure Investment Plan: Fiscal Years 2016-2017 through 2020-2021

SUMMARY:

The Infrastructure Investment Plan (IIP) is a planning document used to identify, prioritize and establish preliminary budgets for facility improvement and replacement projects over a five-year planning period.

The IIP incorporates proposed projects from a number of sources including the recently completed Sanitation and Recycled Water Master Plan Updates, implementation of recommendations in specific facility studies, regulatory requirements and facilities condition assessments.

The IIP anticipates a total of \$40,531,219 in capital improvement projects over the five-year period, consisting of \$34,053,875 for the Sanitation Enterprise and \$6,477,344 for the Recycled Water Enterprise. Based on the terms of the JPA Agreement, LVMWD's share of the total cost would be \$28,502,580, and Triunfo Sanitation District's share would be \$12,028,639.

RECOMMENDATION(S):

Receive and file the Infrastructure Investment Plan for Fiscal Years 2016-2017 through 2020-2021.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

FINANCIAL IMPACT:

The IIP is a planning document and does not appropriate funds to any projects. The proposed projects for Fiscal Year 2016-2017 will be included in the proposed Fiscal Year 2016-2017 JPA Budget. Appropriations for individual projects will be approved with

the budget or on an individual basis through separate Board actions.

DISCUSSION:

The IIP covers a planning period of five-years and uses the recently completed Sanitation and Recycled Water Master Plan Updates, specific facility plans, known regulatory requirements and condition assessments to identify proposed capital projects and programs. Much of the focus for this IIP is on replacement and rehabilitation of aging facilities serving the sanitation and recycled water systems.

In addition to the general reliability improvement program initiated last year for Tapia, potential improvements are proposed for the plant to achieve Summer Season compliance with the TMDL for Malibu Creek.

For the recycled water system, continued efforts will focus on recycled water seasonal storage and on the Woodland Hills Golf Course recycled water pipeline extension. Following is a summary of major projects included in the IIP:

Tapia Water Reclamation Facility:

- Tapia Sluice Gate and Drive Replacement
- Centrate Equalization Tank
- Programmable Logic Controller Upgrades
- Tapia Reliability Improvements
- Tapia Electrical Duct Bank Infrastructure Upgrade
- Tapia Primary Clarifier Tank Nos. 2-5 Rehabilitation
- Summer Season 2013 TMDL Compliance
- Process Air Improvements

Rancho Las Virgenes Composting Facility:

- Raw Sludge Wet Well Mixing Improvements
- Digester Cleaning
- Reliability Improvements
- Amendment Bin and Conveyance Modification

Recycled Water System:

- Lost Hills Overpass Recycled Water Main Relocation
- Recycled Water Storage - Phase II
- Woodland Hills Golf Course Recycled Water Pipeline Extension (100% reimbursed by LADWP)
- Miscellaneous Recycled Water System Extensions
- Recycled Water Tank Coating

At the JPA Board meeting, staff will provide a presentation on the various proposed projects.

Prepared by: Doug Anders, Administrative Services Coordinator

ATTACHMENTS:

Infrastructure Investment Plan: Fiscal Years 2016-17 through 2020-21

LVMWD REPORT # 2722.00

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LOS ANGELES COUNTY, CALIFORNIA

**LAS VIRGENES – TRIUNFO JOINT POWERS AUTHORITY
INFRASTRUCTURE INVESTMENT PLAN (IIP)**

FISCAL YEAR 2016/17 – FISCAL YEAR 2020/21

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Section 1

Infrastructure Investment Plan
For the Period of
FY 2016/17 - FY 2020/21

Overview

The Capital Improvements Plan or Infrastructure Investment Plan (Plan) is a planning document used to identify, prioritize and establish baseline expenditures for facility improvements or replacement projects which ensure the district can consistently meet the needs of the public, both for now and into the future.

This Plan covers a five (5) year planning horizon and provides historical detail related ongoing Potable Water, Sanitation and Recycled Water projects. When applicable, information from recently completed planning documents and studies are used to update project cost estimates.

The information provided in this Plan is intended to inform the reader of current and proposed capital improvement projects, their status and potential costs. Reports are included that sort projects and costs by priority and by location. Detailed project descriptions, sorted in numerical order, are found in Section 3.

The Infrastructure Investment Plan has been prepared and reviewed by staff to identify the candidate projects for future funding consideration and accomplishment. The Plan incorporates facility needs identified by a number of sources. These include: integration of new facility improvements identified in master planning documents; implementation of actions recommended in major studies; the facilities or programs necessary to meet regulatory compliance requirements; and, maintenance, repair, or replacement of component systems to continue normal operations.

The Plan places the prospective projects into various program years to organize them over the five-year planning period. Because of the complexity of facility planning, either deferral or speeding up of projects may occur. These changes are dealt with in the Annual Budget and are amended in the next year's Plan. Receipt of the Infrastructure Investment Plan by the Board of Directors is recognized as one of the key planning steps necessary to formulate an overall Financial Plan and Budget for the District.

Assumptions

Significant drivers influencing the development of the Infrastructure Investment Plan ("Plan") include: 1) regulatory and policy issues effecting LVMWD and JPA operations; 2) master plan recommended facility replacement and repair; and 3) internally developed programs to improve service delivery and efficiency. Some examples include:

- The Sanitation and Recycled Water System Master Plans were completed in fiscal year 2013-2014. Projects included in this Plan and out-year projects will be evaluated relative to the findings in the new master plan documents.
- Projects related to proposed regulatory standards for Malibu Creek and their impact to the Tapia Water Reclamation Facility ("Tapia") are included in this plan (60048 Summer Season 2013 TMDL Compliance).
- Significant effort will continue towards developing recycled water seasonal storage options (10587 - Recycled Water Storage – PH II).
- The Woodland Hills Golf Course recycled water pipeline extension – expenses to be fully reimbursed by the LADWP – will move forward.
- Repair and replacement projects for JPA facilities will be scheduled for long term protection of agencies' investment and to improve operational efficiencies.

Summary

This year's Plan follows the previous trend on placing emphasis on "replacement-funded" projects for Recycled Water and Sanitation facilities. The proposed expenditures reflect the replacement of maturing district infrastructure and the need to replace, upgrade or refurbish existing systems to continue to provide high quality, reliable service. Exceptions to this trend are the pro-rata portions of projects that are attributed to new development or new users.

Major projects and programs with activity planned in fiscal year 2016-17 are summarized below.

Rancho/Farm

- Raw Sludge Wet Well Mixing (10537)
- Rancho Las Virgenes Digester Cleaning (10565)
- Rancho Reliability Improvements (10601)
- Rancho Amendment Bin and Conveyance Modification Project (60000)

Recycled Water (RW) System

- Lost Hills Overpass Recycled Water Main Relocation (10540)
- Recycled Water Storage – PH II (10587)
- Woodland Hills Golf Course RW Pipeline Extension (10588)
- Miscellaneous RW Extension (10602)
- Recycled Water Tank Coating (60050)

Tapia Water Reclamation Facility

- Tapia Sluice Gate and Drive (10513)
- Centrate Equalization Tank (10564)
- Programmable Logic Controller Upgrades (10567)
- Tapia Water Reclamation Facility Reliability Improvements (10600)
- Tapia Duct Bank Infrastructure Upgrade (60006)
- Tapia Primary Tanks No. 2-5 Rehabilitation (60043)
- Summary Season 2013 TMDL Compliance (60048)
- Process Air Improvements (99910)

Sewers and Lift Stations

- Manhole Rehabilitation (10559)
- Flow Meter Replacement (60040)

Administrative & Programs

- SCADA System Communication Upgrades (10520)
- Security Upgrades (10579)

Infrastructure Investment Plan
Fiscal Year 2016-17-- Fiscal Year 2020-21

Expenditures by Fund

	FY 16/17	FY17/18	FY18/19	FY19/20	FY 20/21	5-Year Total
P/W Construction	\$0	\$0	\$0	\$0	\$0	\$0
P/W Replacement	\$0	\$0	\$0	\$0	\$0	\$0
Sanitation Construction	\$1,182,350	\$943,400	\$508,400	\$905,000	\$695,000	\$4,234,150
Sanitation Replacement	\$6,410,499	\$5,394,761	\$4,303,665	\$6,017,800	\$7,693,000	\$29,819,725
RW Conservation	\$676,780	\$1,357,400	\$656,400	\$656,400	\$210,000	\$3,556,980
RW Replacement	\$824,864	\$137,500	\$71,500	\$221,500	\$1,665,000	\$2,920,364
Total Costs	\$9,094,493	\$7,833,061	\$5,539,965	\$7,800,700	\$10,263,000	\$40,531,219

Infrastructure Investment Plan
Fiscal Year 2016/17 - Fiscal Year 2020/21

Las Virgenes - Triunfo Joint Powers Authority Cost Sharing

	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	5-Year Total
P/W Construction	\$0	\$0	\$0	\$0	\$0	\$0
P/W Replacement	\$0	\$0	\$0	\$0	\$0	\$0
Sanitation Construction	\$834,739	\$666,040	\$358,930	\$638,930	\$490,670	\$2,989,310
Sanitation Replacement	\$4,484,942	\$3,734,623	\$3,038,387	\$4,248,567	\$5,431,258	\$20,937,777
RW Conservation	\$477,807	\$958,324	\$463,418	\$463,418	\$148,260	\$2,511,228
RW Replacement	\$584,842	\$97,075	\$50,479	\$156,379	\$1,175,490	\$2,064,265
LVMWD Share	\$6,382,330	\$5,456,063	\$3,911,215	\$5,507,294	\$7,245,678	\$28,502,580

	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	5-Year Total
Sanitation Construction	\$347,611	\$277,360	\$149,470	\$266,070	\$204,330	\$1,244,840
Sanitation Replacement	\$1,925,557	\$1,660,138	\$1,265,278	\$1,769,233	\$2,261,742	\$8,881,948
RW Conservation	\$198,973	\$399,076	\$192,982	\$192,982	\$61,740	\$1,045,752
RW Replacement	\$240,022	\$40,425	\$21,021	\$65,121	\$489,510	\$856,099
TSD Share	\$2,712,163	\$2,376,998	\$1,628,750	\$2,293,406	\$3,017,322	\$12,028,639
TOTAL COSTS	\$9,094,493	\$7,833,061	\$5,539,965	\$7,800,700	\$10,263,000	\$40,531,219

Infrastructure Investment Plan
Fiscal Year 2016/17 - Fiscal Year 2020/21

Expenditures by Priority

	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Five-year total
Priority 1	\$423,849	\$400,000	\$40,000	\$2,220,000	\$2,220,000	\$5,303,849
Priority 2	\$6,548,634	\$4,272,541	\$3,359,645	\$2,297,700	\$2,052,000	\$18,530,520
Priority 3	\$2,122,010	\$3,160,520	\$2,140,320	\$3,283,000	\$5,991,000	\$16,696,850
TOTAL ALL PROJECTS	\$9,094,493	\$7,833,061	\$5,539,965	\$7,800,700	\$10,263,000	\$40,531,219

Priority 1: Essential project. Required by law or regulation; by disaster response; or by emergency or hazardous situation.

Priority 2: Necessary project. Required to maintain service reliability; safety; cost related efficiency or matching funds; water quality; current demand.

Priority 3: Desirable or Routine Project. Routine improvement; no direct cost benefit; cosmetic; or future demand.

Infrastructure Investment Plan
Fiscal Year 2016/17 - Fiscal Year 2020/21

Expenditures by Location

	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Five-year total
ADMINISTRATIVE	\$0	\$67,361	\$43,845	\$0	\$0	\$111,206
PROGRAM EXPENSE OFFSET	\$-1,414,000	\$-8,106,000	\$-8,056,000	\$0	\$0	\$-17,576,000
PROGRAMS	\$19,800	\$0	\$0	\$0	\$0	\$19,800
RANCHO/FARM	\$1,255,500	\$751,000	\$2,042,320	\$687,000	\$1,319,000	\$6,054,820
RECYCLED WATER	\$3,967,834	\$10,829,900	\$10,008,900	\$2,102,900	\$2,365,000	\$29,274,534
SEWER/LIFT STATIONS	\$159,849	\$242,880	\$0	\$0	\$0	\$402,729
TAPIA	\$5,105,510	\$4,047,920	\$1,500,900	\$5,010,800	\$6,579,000	\$22,244,130
TOTAL ALL PROJECTS	\$9,094,493	\$7,833,061	\$5,539,965	\$7,800,700	\$10,263,000	\$40,531,219

Section 2

Infrastructure Investment Plan
Fiscal Year 2016/17 - Fiscal Year 2020/21

Projects by Priority

Priority	Project Number	Title	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Five-year total
1	10565	Rancho Las Virgenes Digester	198,000					198,000
1	60040	Flow Meter Replacement - JPA	25,849					25,849
1	60048	Summer Season 2013 TMDL	200,000	400,000	40,000	2,220,000	2,220,000	5,080,000
		SUB-TOTAL PRIORITY 1	\$423,849	\$400,000	\$40,000	\$2,220,000	\$2,220,000	\$5,303,849
2	10513	Tapia Sluice Gate and Drive	371,200	212,800	212,800	212,800		1,009,600
2	10520	SCADA System Communication		67,361	43,845			111,206
2	10537	Raw Sludge Wet Well Mixing	149,000					149,000
2	10540	Lost Hills Overpass Recycled Water	622,054					622,054
2	10559	Manhole Rehabilitation	134,000	242,880				376,880
2	10564	Centrate Equalization Tank	1,332,000					1,332,000
2	10567	Programmable Logic Controller	387,500	379,050	53,300			819,850
2	10587	Recycled Water Storage - PH-II	1,750,000	1,850,000	1,750,000	1,750,000	700,000	7,800,000
2	10588	Woodland Hills Golf Course RW	1,060,000	8,106,000	8,056,000			17,222,000
2	10601	Rancho Reliability Improvements	132,000	132,000	132,000	132,000	132,000	660,000
2	10602	Miscellaneous RW Extension	505,780	131,400	131,400	131,400		899,980
2	60000	Rancho Amendment Bin and	776,500					776,500
2	60006	Tapia Duct Bank Infrastructure	66,000	184,750				250,750
2	60031	New RAS Wet Well and Pumps					1,220,000	1,220,000
2	60043	Tapia: Primary Tanks No. 2 - 5	646,600	329,800	329,800			1,306,200
2	60045	Alice Stelle Recycled Water Main		671,000				671,000
2	60050	Recycled Water Tank Coating	30,000	71,500	71,500	71,500		244,500
2	60054	Offset to IIP No. 10602 - Misc. RW	-354,000					-354,000
2	99926	Rancho Las Virgenes Sludge			635,000			635,000
2	99996	OFFSET OF IIP #10588	-1,060,000	-8,106,000	-8,056,000			-17,222,000
		SUB-TOTAL PRIORITY 2	\$6,548,634	\$4,272,541	\$3,359,645	\$2,297,700	\$2,052,000	\$18,530,520
3	10579	Security Upgrades - JPA	19,800					19,800
3	10597	Tapia Electrical and Instrumentation	172,810	66,000				238,810
3	10600	Tapia Water Reclamation Facility	132,000	132,000	132,000	132,000	132,000	660,000
3	60023	Tapia Lighting Efficiency Upgrade		469,920				469,920
3	60024	Rancho Lighting Efficiency Upgrade		594,000				594,000
3	60030	Grit Chamber Mixing System					133,000	133,000
3	60032	Pavement Restoration Tapia					432,000	432,000

Infrastructure Investment Plan
Fiscal Year 2016/17 - Fiscal Year 2020/21

Projects by Priority

Priority	Project Number	Title	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Five-year total
3	60033	Pavement Restoration Rancho			533,320			533,320
3	80748	Rancho: Replace Agitators				555,000	555,000	1,110,000
3	99910	Process Air Improvements	1,797,400	1,873,600				3,671,000
3	99911	Rancho Las Virgenes: FOG		25,000	742,000			767,000
3	99967	Tapia Automated Filter Wash down			143,000			143,000
3	99972	Primary Effluent Equalization			490,000	2,446,000	2,442,000	5,378,000
3	99975	A/B Bus Electrical Modification			100,000			100,000
3	99978	Ovation Upgrade					632,000	632,000
3	99981	Agoura Road Extension Phase II				150,000	1,665,000	1,815,000
SUB-TOTAL PRIORITY 3			\$2,122,010	\$3,160,520	\$2,140,320	\$3,283,000	\$5,991,000	\$16,696,850
TOTAL ALL PROJECTS			\$9,094,493	\$7,833,061	\$5,539,965	\$7,800,700	\$10,263,000	\$40,531,219

Infrastructure Investment Plan
Fiscal Year 2016/17 - Fiscal Year 2020/21

Projects by Location

Project Number	Title	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Five-year total
ADMINISTRATIVE							
10520	SCADA System Communication	0	67,361	43,845	0	0	111,206
	SUB-TOTAL ADMINISTRATIVE	\$0	\$67,361	\$43,845	\$0	\$0	\$111,206
PROGRAM EXPENSE OFFSET							
60054	Offset to IIP No. 10602 - Misc. RW	-354,000	0	0	0	0	-354,000
99996	OFFSET OF IIP #10588	-1,060,000	-8,106,000	-8,056,000	0	0	-17,222,000
	SUB-TOTAL PROGRAM EXPENSE	\$-1,414,000	\$-8,106,000	\$-8,056,000	\$0	\$0	\$-17,576,000
PROGRAMS							
10579	Security Upgrades - JPA	19,800	0	0	0	0	19,800
	SUB-TOTAL PROGRAMS	\$19,800	\$0	\$0	\$0	\$0	\$19,800
RANCHO/FARM							
10537	Raw Sludge Wet Well Mixing	149,000	0	0	0	0	149,000
10565	Rancho Las Virgenes Digester Cleaning	198,000	0	0	0	0	198,000
10601	Rancho Reliability Improvements	132,000	132,000	132,000	132,000	132,000	660,000
60000	Rancho Amendment Bin and	776,500	0	0	0	0	776,500
60024	Rancho Lighting Efficiency Upgrade	0	594,000	0	0	0	594,000
60033	Pavement Restoration Rancho	0	0	533,320	0	0	533,320
80748	Rancho: Replace Agitators	0	0	0	555,000	555,000	1,110,000
99911	Rancho Las Virgenes: FOG Receiving	0	25,000	742,000	0	0	767,000
99926	Rancho Las Virgenes Sludge Thickening	0	0	635,000	0	0	635,000
99978	Ovation Upgrade	0	0	0	0	632,000	632,000
	SUB-TOTAL RANCHO/FARM	\$1,255,500	\$751,000	\$2,042,320	\$687,000	\$1,319,000	\$6,054,820
RECYCLED WATER							
10540	Lost Hills Overpass Recycled Water	622,054	0	0	0	0	622,054
10587	Recycled Water Storage - PH-II	1,750,000	1,850,000	1,750,000	1,750,000	700,000	7,800,000
10588	Woodland Hills Golf Course RW Pipeline	1,060,000	8,106,000	8,056,000	0	0	17,222,000
10602	Miscellaneous RW Extension	505,780	131,400	131,400	131,400	0	899,980
60045	Alice Stelle Recycled Water Main	0	671,000	0	0	0	671,000
60050	Recycled Water Tank Coating	30,000	71,500	71,500	71,500	0	244,500
99981	Agoura Road Extension Phase II	0	0	0	150,000	1,665,000	1,815,000

Infrastructure Investment Plan
Fiscal Year 2016/17 - Fiscal Year 2020/21

Projects by Location

Project Number	Title	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Five-year total
SUB-TOTAL RECYCLED WATER		\$3,967,834	\$10,829,900	\$10,008,900	\$2,102,900	\$2,365,000	\$29,274,534
SEWER/LIFT STATIONS							
10559	Manhole Rehabilitation	134,000	242,880	0	0	0	376,880
60040	Flow Meter Replacement - JPA Meters	25,849	0	0	0	0	25,849
SUB-TOTAL SEWER/LIFT STATIONS		\$159,849	\$242,880	\$0	\$0	\$0	\$402,729
TAPIA							
10513	Tapia Sluice Gate and Drive	371,200	212,800	212,800	212,800	0	1,009,600
10564	Centrate Equalization Tank	1,332,000	0	0	0	0	1,332,000
10567	Programmable Logic Controller	387,500	379,050	53,300	0	0	819,850
10597	Tapia Electrical and Instrumentation	172,810	66,000	0	0	0	238,810
10600	Tapia Water Reclamation Facility	132,000	132,000	132,000	132,000	132,000	660,000
60006	Tapia Duct Bank Infrastructure Upgrade	66,000	184,750	0	0	0	250,750
60023	Tapia Lighting Efficiency Upgrade	0	469,920	0	0	0	469,920
60030	Grit Chamber Mixing System	0	0	0	0	133,000	133,000
60031	New RAS Wet Well and Pumps	0	0	0	0	1,220,000	1,220,000
60032	Pavement Restoration Tapia	0	0	0	0	432,000	432,000
60043	Tapia: Primary Tanks No. 2 - 5	646,600	329,800	329,800	0	0	1,306,200
60048	Summer Season 2013 TMDL	200,000	400,000	40,000	2,220,000	2,220,000	5,080,000
99910	Process Air Improvements	1,797,400	1,873,600	0	0	0	3,671,000
99967	Tapia Automated Filter Wash down	0	0	143,000	0	0	143,000
99972	Primary Effluent Equalization	0	0	490,000	2,446,000	2,442,000	5,378,000
99975	A/B Bus Electrical Modification	0	0	100,000	0	0	100,000
SUB-TOTAL TAPIA		\$5,105,510	\$4,047,920	\$1,500,900	\$5,010,800	\$6,579,000	\$22,244,130
TOTAL ALL PROJECTS		\$9,094,493	\$7,833,061	\$5,539,965	\$7,800,700	\$10,263,000	\$40,531,219

Section 3

Tapia Sluice Gate and Drive Replacement

80749

<p>Job Number: 10513 Project Manager: Maple FY Originated: FY09-10</p>	<p>Priority: 2 Category: Facility Improvements Program: Yes</p>
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Scope of Work

Replace existing gates in the tanks and channels at Tapia as well as drive mechanisms for flights and chains.

Project Justification

Many of the gates that separate channels and tanks are worn and do not work properly. The drives for the sludge collection system are over 30 years old. These items have reached their useful life and are in need of replacement.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor				\$2,769		\$2,769		
G & A Allocations				\$5,000		\$5,000		
TOTALS				\$7,768		\$7,768	\$309,650	\$301,882

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning	\$0	\$0				\$0	
Land Acquisition	\$0	\$0				\$0	
Design	\$0	\$0				\$0	
Bidding	\$1,600	\$1,600	\$1,600	\$1,600		\$6,400	
Construction	\$280,000	\$160,000	\$160,000	\$160,000		\$760,000	
Labor and G&A Expense	\$89,600	\$51,200	\$51,200	\$51,200		\$243,200	
TOTALS	\$371,200	\$212,800	\$212,800	\$212,800	\$0	\$1,009,600	\$1,017,368

APPROPRIATION REQUEST: \$69,318

Cost Estimate Basis: Assumes seventeen (17) gates being replaced at similar cost to previous work performed in 2008 for \$204,000.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
0.0%	0.0%	0.0%		71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
0.0%	100.0%	0.0%		29%

SCADA System Communication Upgrades

99906

Job Number: 10520 Project Manager: Schlageter FY Originated: FY12-13	Priority: 2 Category: Business Improvements Program: No
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Scope of Work

Migration of the existing communication system from a serial radio network to an Ethernet based radio network. Provide redundant data paths for uninterrupted communication. Eliminate need to rely on telephone company equipment.

Project Justification

The existing system is now limited in speed, bandwidth and flexibility. The system is also past its peak communication bandwidth and expected life-span. Upgrading will dramatically increase the bandwidth of the system allowing the use of security cameras, voice over IP (VOIP) phone and certain types of smart sensors.

The upgrades will reduce dependency on telephone company equipment and will help reduce time spent coordinating repairs with outside vendors.

The project is anticipated to be re-bid once a revised bid package is developed.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees		\$6,239		\$22,607		\$28,846		
Contracts/Equipment								
District Labor				\$1,213		\$1,213		
G & A Allocations				\$2,388		\$2,388		
TOTALS		\$6,239		\$26,208		\$32,447	\$93,100	\$60,653

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding		\$437	\$285			\$722	
Construction		\$50,700	\$33,000			\$83,700	
Labor and G&A Expense		\$16,224	\$10,560			\$26,784	
TOTALS	\$0	\$67,361	\$43,845	\$0	\$0	\$111,206	\$143,653

APPROPRIATION REQUEST: \$0

Estimate is based on the initial bid results received and includes contingency for added sites.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD 71%
P/W Replacement	Sanitation Replacement 100.0%	RW Replacement		TSD 29%

Raw Sludge Wet Well Mixing Improvements

99905

Job Number: 10537 Project Manager: Zhao FY Originated: FY12-13	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

Replace the existing centrifugal mixing pump with a pump that is more appropriate for sludge mixing.

Project Justification

The existing centrifugal mixing pump is not able to convey enough flow to properly mix the raw sludge in the wet wells which results in the settlement of heavier solids to the bottom of the tank. The collection of settled solids reduces tank capacity.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS							\$127,000	\$127,000

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning	\$7,000					\$7,000	
Land Acquisition							
Design	\$10,000					\$10,000	
Bidding							
Construction	\$100,000					\$100,000	
Labor and G&A Expense	\$32,000					\$32,000	
TOTALS	\$149,000	\$0	\$0	\$0	\$0	\$149,000	\$149,000

APPROPRIATION REQUEST: \$22,000

Staff Estimate.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Lost Hills Overpass Recycled Water Main Relocation

99926

Job Number: 10540 Project Manager: Zhao FY Originated: FY13-14	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

Relocate the existing 10" recycled water pipeline in the Lost Hills overpass to the new overpass that will be under construction beginning May, 2015.

Project Justification

The existing line must be relocated due to the demolition of the existing Lost Hills overpass. The existing 10" line runs through the overpass.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees			\$38,412	\$29,776	\$4,465	\$72,653		
Contracts/Equipment				\$857	\$100,000	\$100,857		
District Labor			\$4,273	\$5,151	\$20,000	\$29,424		
G & A Allocations			\$6,558	\$8,887	\$12,000	\$27,445		
TOTALS			\$49,243	\$44,671	\$136,465	\$230,379	\$765,101	\$534,722

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding							
Construction	\$471,253					\$471,253	
Labor and G&A Expense	\$150,801					\$150,801	
TOTALS	\$622,054	\$0	\$0	\$0	\$0	\$622,054	\$852,433

APPROPRIATION REQUEST: \$87,332

Cost Estimate Basis: Construction costs include services during construction (15% of construction amount) and construction management from Parsons Corporation.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
0.0%				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
		100.0%		29%

Manhole Rehabilitation

80720

<p>Job Number: 10559 Project Manager: Schlageter FY Originated: FY01-02</p>	<p>Priority: 2 Category: Facility Improvements Program: No</p>
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Scope of Work

The project consists of rehabilitation of existing deteriorated manholes identified by sewer collection inspection. The rehabilitation project includes various repair alternatives based upon the severity of their condition. Targeted manholes include:

- The F2/F3 Sewer Rehabilitation Study identified priority trunk sewer manholes needing repair.
- C3 sewer manholes that show signs of deterioration due to inflow and infiltration (I&I).

Manholes to be cleaned and inspected and will be rehabilitated if required.

Project Justification

Project will maintain integrity of trunk sewer system.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor					\$334	\$334		
G & A Allocations					\$43	\$43		
TOTALS					\$377	\$377	\$291,500	\$291,123

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding	\$2,000					\$2,000	
Construction	\$100,000	\$184,000				\$284,000	
Labor and G&A Expense	\$32,000	\$58,880				\$90,880	
TOTALS	\$134,000	\$242,880	\$0	\$0	\$0	\$376,880	\$377,257

APPROPRIATION REQUEST: \$0

Cost Estimate Basis:

Based on the F2/F3 Sewer System Assessment Survey & Rehabilitation Report prepared by Boyle Engineering. The cost estimate will need to be revised pending results of the inspection to determine the current condition of the C3 sewer manholes.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
0.0%	0.0%	0.0%		40%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
0.0%	100.0%	0.0%		60%

Centrate Equalization Tank

99932

<p>Job Number: 10564 Project Manager: Schlageter FY Originated: FY13-14</p>	<p>Priority: 2 Category: Regulatory Compliance Program: No</p>
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Scope of Work

Construct a centrate equalization tank at the centrate treatment facility.

Provide mechanical and/or chemical cleaning of minerals from the existing centrate line.

No planning is needed due to the availability of existing documentation.

Rehabilitation of the centrate treatment line is possible because of the availability of the existing bypass treatment line.

Project Justification

Currently, there are two centrate treatment reactor tanks which are operated as batch reactors. When one tank needs to be taken out of service, the remaining tank cannot be used as a batch reactor because of centrate feed from Rancho. A new equalization tank would be used to store centrate generated at Rancho and feed it to the centrate reactors.

A large amount of mineral deposits have accumulated in the centrate line between the dewatering facility and the centrate treatment tanks.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees				\$36,162	\$62,452	\$98,614		
Contracts/Equipment					\$200,000	\$200,000		
District Labor				\$1,846	\$3,040	\$4,886		
G & A Allocations				\$4,189	\$3,172	\$7,361		
TOTALS				\$42,197	\$268,664	\$310,861	\$1,250,519	\$939,658

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding							
Construction	\$1,200,000					\$1,200,000	
Labor and G&A Expense	\$132,000					\$132,000	
TOTALS	\$1,332,000	\$0	\$0	\$0	\$0	\$1,332,000	\$1,642,861

APPROPRIATION REQUEST: \$392,342

Cost Estimate Basis: Engineer's opinion of probable construction cost based on the final design.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
	25.0%			71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	75.0%			29%

Rancho Las Virgenes Digester Cleaning and Repair

99934

Job Number: 10565 Project Manager: Schlageter FY Originated: FY13-14	Priority: 1 Category: Facility Improvements Program: No
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Scope of Work

To clean out and evaluate the condition of existing digesters # 1 and #2. The full scope of repairs is unknown at this time but could include coatings ,concrete patching, pipe and valve repairs, removal of the steam lances, and repairs to hatches and seals.

Project Justification

The digesters have not been taken off line for cleaning in their 20 years of service. It is recommended that digesters are cleaned every 10 years. With the completion of the third digester project in 2015, there will be enough digester capacity for the existing digesters to be cleaned and repaired.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees					\$25,000	\$25,000		
Contracts/Equipment					\$100,000	\$100,000		
District Labor					\$3,500	\$3,500		
G & A Allocations					\$1,500	\$1,500		
TOTALS					\$130,000	\$130,000	\$287,500	\$157,500

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding							
Construction	\$150,000					\$150,000	
Labor and G&A Expense	\$48,000					\$48,000	
TOTALS	\$198,000	\$0	\$0	\$0	\$0	\$198,000	\$328,000

APPROPRIATION REQUEST: \$40,500

Cost Estimate Basis: Staff estimate. Will be revised following a determination of the condition of the digesters after cleaning and recommended repairs, if necessary.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Programmable Logic Controller Upgrades

99936

Job Number: 10567 Project Manager: Schlageter FY Originated: FY13-14	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

This project replaces programmable logic controllers (PLC's) with newer PLCs and provides necessary equipment upgrades (fiber optics, network switches and programming) to complete the installation. This is a program project which addresses Tapia in the first two years and centrate treatment in the third year. Design will occur in the first year for all facilities.

Project Justification

The PLC's at Tapia and centrate treatment have become obsolete and need to be replaced with new PLC's and ancillary equipment.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS							\$216,500	\$216,500

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning	\$0	\$0				\$0	
Land Acquisition	\$0	\$0				\$0	
Design	\$55,000	\$0				\$55,000	
Bidding	\$2,500	\$2,850	\$500			\$5,850	
Construction	\$250,000	\$285,000	\$40,000			\$575,000	
Labor and G&A Expense	\$80,000	\$91,200	\$12,800			\$184,000	
TOTALS	\$387,500	\$379,050	\$53,300	\$0	\$0	\$819,850	\$819,850

APPROPRIATION REQUEST: \$171,000

Cost Estimate Basis: Estimate based on MSO Proposal.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD 71%
P/W Replacement	Sanitation Replacement 100.0%	RW Replacement		TSD 29%

Security Upgrades - JPA

99953

<p>Job Number: 10579 Project Manager: Miller FY Originated: FY13-14</p>	<p>Priority: 3 Category: Business Improvements Program: Yes</p>
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Scope of Work

Remote Access Control: \$20,000
 Security Cameras: \$15,000
 Lock and Key Control: \$5,000

Project Justification

Continually improve security and safety at JPA facilities through upgrades and improvements.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment					\$17,403	\$17,403		
District Labor					\$345	\$345		
G & A Allocations					\$496	\$496		
TOTALS					\$18,244	\$18,244	\$32,000	\$13,756

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning	\$0					\$0	
Land Acquisition	\$0					\$0	
Design	\$0					\$0	
Bidding	\$0					\$0	
Construction	\$15,000					\$15,000	
Labor and G&A Expense	\$4,800					\$4,800	
TOTALS	\$19,800	\$0	\$0	\$0	\$0	\$19,800	\$38,044

APPROPRIATION REQUEST: \$6,044
 Staff estimate.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Recycled Water Storage - PH-II

99961

<p>Job Number: 10587 Project Manager: Lippman FY Originated: FY14-15</p>	<p>Priority: 2 Category: Facility Improvements Program: No</p>
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Scope of Work

On April 6, 2015, the Board approved the Recycled Water Seasonal Storage Plan of Action and directed staff to prepare a Basis of Design Report (BODR) for two scenarios: 1) the use of Las Virgenes Reservoir for indirect potable reuse; and 2) repurposing the Encino Reservoir for seasonal storage. The BODR will be complete in April 2016. Outreach, CEQA analysis, pilot studies and design will begin after completion of the BODR.

Project Justification

The JPA desires to maximize beneficial reuse of recycled water while avoiding costly treatment upgrades to comply with new TMDL water quality limits. On June 2, 2014 the Board adopted guiding principles creating a framework for the next steps in developing seasonal storage.

[Note: This is a continuation of IIP - 10393]

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees				\$174,716	\$546,928	\$721,644		
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS				\$174,716	\$546,928	\$721,644	\$721,644	\$0

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning	\$1,750,000	\$1,750,000				\$3,500,000	
Land Acquisition		\$100,000				\$100,000	
Design			\$1,750,000	\$1,750,000		\$3,500,000	
Bidding					\$700,000	\$700,000	
Construction Labor and G&A Expense							
TOTALS	\$1,750,000	\$1,850,000	\$1,750,000	\$1,750,000	\$700,000	\$7,800,000	\$8,521,644

APPROPRIATION REQUEST: \$1,750,000

Cost Estimate Basis: Planning includes regulatory permitting, predesign, agreements, CEQA and funding efforts. Planning is estimated at 5% of construction cost, design at 5% of construction cost and bidding at 1% of construction cost. The construction cost is estimated at \$70M based on scenario No. 4 (IPR) with reduced pipe costs from the Plan of Action.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
	20.0%	30.0%		71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	50.0%			29%

Woodland Hills Golf Course RW Pipeline Extension

99962

<p>Job Number: 10588 Project Manager: Schlageter FY Originated: FY14-15</p>	<p>Priority: 2 Category: Capacity/Supply Program: No</p>
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Scope of Work

Installation of a 16-24 inch pipeline from the intersection of Park Granada and Park Capri (Calabasas) to the Los Angeles city boundary and extending to the Woodland Hills Country Club. The JPA will manage the development of the preliminary design, environmental documentation (with CEQA) and final design and construction of the project. **The JPA will be reimbursed for all costs related to this project by the LADWP.**

FY 2014-2015 activity includes development of a Preliminary Design Report (PDR) for the project.

Continuation of IIP 10474

Project Justification

This project stems from the JPA's desire to provide surplus recycled water customers outside of the JPA service area.

The estimated maximum daily demand outside of the JPA service area 430 gpm.

Project identified in 2007 Master Plan and was included in the 2014 Master Plan update.

The JPA and LADWP have entered into a cooperative agreement to perform preliminary design and CEQA. Currently staff is drafting an agreement for the design and construction phase.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees					\$350,000	\$350,000		
Contracts/Equipment								
District Labor				\$3,922	\$5,179	\$9,101		
G & A Allocations				\$8,444	\$5,147	\$13,591		
TOTALS				\$12,366	\$360,326	\$372,692	\$1,338,638	\$965,946

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design	\$1,060,000					\$1,060,000	
Bidding		\$50,000				\$50,000	
Construction		\$7,600,000	\$7,600,000			\$15,200,000	
Labor and G&A Expense		\$456,000	\$456,000			\$912,000	
TOTALS	\$1,060,000	\$8,106,000	\$8,056,000	\$0	\$0	\$17,222,000	\$17,594,692

APPROPRIATION REQUEST: \$94,054

Cost Estimate Basis:

Construction based on RMC alignment evaluation. Planning includes full EIR. Design, bidding, G&A follow planning guidelines. Costs shown are for the full project.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation	100.0%	LVMWD 71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD 29%

Tapia Electrical and Instrumentation Upgrades

99950

<p>Job Number: 10597 Project Manager: Korkosz FY Originated: FY13-14</p>	<p>Priority: 3 Category: Facility Improvements Program: No</p>
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Scope of Work

Replace obsolete and malfunctioning mechanical protective relays for generators with new solid state controls. The controls will provide better generator protection and troubleshooting capabilities (generators 1 & 2). Generator vendor will be selected through RFP process.

Project Justification

The JPA's Tapia Water Reclamation facility represents a significant investment that is necessary for ongoing sewage treatment.

Treatment plant equipment and appurtenances are inspected and evaluated on an ongoing basis to determine the most cost effective repair/replace maintenance schedules.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS							\$137,250	\$137,250

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning	\$1,000					\$1,000	
Land Acquisition							
Design	\$2,500					\$2,500	
Bidding	\$2,000					\$2,000	
Construction	\$126,750	\$50,000				\$176,750	
Labor and G&A Expense	\$40,560	\$16,000				\$56,560	
TOTALS	\$172,810	\$66,000	\$0	\$0	\$0	\$238,810	\$238,810

APPROPRIATION REQUEST: \$35,560

Staff estimate.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
		100.0%		29%

Tapia Water Reclamation Facility Reliability Improvements

99973

Job Number: 10600 Project Manager: Dingman FY Originated: FY 15-16	Priority: 3 Category: Facility Improvements Program: Yes
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Scope of Work

Replace or rehabilitate facilities and equipment at the Tapia Water Reclamation Facility (WRF) based on failure, exceedence of useful life, or obsolescence. Specific projects are identified for each fiscal year.

Project Justification

Providing reliability and regulatory compliance requires systematic replacement or rehabilitation of facilities and equipment.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment					\$92,500	\$92,500		
District Labor					\$2,500	\$2,500		
G & A Allocations					\$5,000	\$5,000		
TOTALS					\$100,000	\$100,000	\$100,000	\$0

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding							
Construction	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000	
Labor and G&A Expense	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000	\$160,000	
TOTALS	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000	\$660,000	\$760,000

APPROPRIATION REQUEST: \$132,000

Staff estimate. Estimates will be refined each fiscal year.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Rancho Reliability Improvements

99977

<p>Job Number: 10601 Project Manager: Schlageter FY Originated: FY 15-16</p>	<p>Priority: 2 Category: Business Improvements Program: Yes</p>
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Scope of Work

Replace or rehabilitate facilities and equipment at the Rancho facility based on failure, exceedence of useful life, or obsolescence. Specific projects are identified for each fiscal year.

Project Justification

Providing reliability and regulatory compliance requires systematic replacement or rehabilitation of facilities and equipment.

Proposed:

- Upgrade pumps (Gibbs Drives) with VFD system. Project anticipates \$10K for design expense.
- Agitator Flight Pan Replacement.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees					\$10,000	\$10,000		
Contracts/Equipment					\$41,500	\$41,500		
District Labor					\$4,900	\$4,900		
G & A Allocations					\$8,000	\$8,000		
TOTALS					\$64,400	\$64,400	\$100,000	\$35,600

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding							
Construction	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000	
Labor and G&A Expense	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000	\$160,000	
TOTALS	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000	\$660,000	\$724,400

APPROPRIATION REQUEST: \$96,400

Staff estimate. Estimates will be refined each fiscal year.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction		RW Conservation	LVMWD
				71%
P/W Replacement	Sanitation Replacement		RW Replacement	TSD
	100.0%			29%

Miscellaneous RW Extension

99979

Job Number: 10602 Project Manager: Schlageter FY Originated: FY 15-16	Priority: 2 Category: Capacity/Supply Program: Yes
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Scope of Work

Funding to develop miscellaneous recycled water system extensions.

the FY 16-17 budget provides funding for the 6-inch recycled water main extension from Hedgewall Drive to Yerba Buena Elementary School (1260 LF) and 4-inch service to the City of Westlake Village Canyon Oaks Park (640 LF) as a component to the Calleguas Intertie Project.

Project Justification

Converting existing potable water irrigation to irrigation with recycled water reduces imported water demand, reduces creek discharge and increases beneficial reuse.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS							\$106,000	\$106,000

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design	\$35,000	\$5,000	\$5,000	\$5,000		\$50,000	
Bidding	\$3,500	\$1,000	\$1,000	\$1,000		\$6,500	
Construction	\$354,000	\$95,000	\$95,000	\$95,000		\$639,000	
Labor and G&A Expense	\$113,280	\$30,400	\$30,400	\$30,400		\$204,480	
TOTALS	\$505,780	\$131,400	\$131,400	\$131,400	\$0	\$899,980	\$899,980

APPROPRIATION REQUEST: \$399,780

Cost Estimate Basis:

Staff estimate. Potential grant funded by prop 84 IRWM with 50% matching funds. Estimate based on 2014 RW Master Plan cost per LF of pipeline (6"=\$220/LF. 4"=190/LF reduced to \$120/LF) due to lack of paving for service run.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation	100.0%	LVMWD 71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD 29%

Rancho Amendment Bin and Conveyance Modification Project

Job Number: 60000 Project Manager: Schlageter FY Originated: FY 16-17	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

The project consists of installing a new smaller amendment bin and modification to the conveyor system to simplify the amendment conveyance process.

[REDUCES 10574]

Project Justification

The existing amendment bin has reached the end of its life expectancy. The existing bin is highly corroded and requires significant rehabilitation or replacement. The cost to rehabilitate the existing bin exceeds the cost to replace it with a smaller bin with a more simplified process that will reduce future maintenance costs and provide a new service life.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design	\$50,000					\$50,000	
Bidding	\$5,000					\$5,000	
Construction	\$650,000					\$650,000	
Labor and G&A Expense	\$71,500					\$71,500	
TOTALS	\$776,500	\$0	\$0	\$0	\$0	\$776,500	\$776,500

APPROPRIATION REQUEST: \$776,500

Cost Estimate Basis: Based on engineering estimate and estimate from bin and conveyor manufacturers.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction		RW Conservation	LVMWD
				71%
P/W Replacement	Sanitation Replacement		RW Replacement	TSD
	100.0%			29%

Tapia Duct Bank Infrastructure Upgrade

Job Number: 60006 Project Manager: Korkosz FY Originated: FY 16-17	Priority: 2 Category: Facility Improvement Program: No
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Scope of Work

Add new duct bank from the front gate to the chemical building with several intercept points along the way.

Project Justification

Inability to provide wiring and communication paths to various areas of the plant without disrupting the current system.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning		\$6,000				\$6,000	
Land Acquisition							
Design		\$12,500				\$12,500	
Bidding		\$1,250				\$1,250	
Construction	\$50,000	\$125,000				\$175,000	
Labor and G&A Expense	\$16,000	\$40,000				\$56,000	
TOTALS	\$66,000	\$184,750	\$0	\$0	\$0	\$250,750	\$250,750

APPROPRIATION REQUEST: \$66,000

Staff estimate.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Tapia Lighting Efficiency Upgrade

Job Number: 60023 Project Manager: Maple FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: No
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Scope of Work

Replace internal and external lights at Tapia.

Project Justification

Take advantage of enegy incentives, and energy savings.

Estimated incentives of \$25,000. Estimated annual electrical and maintenance savings of \$53,000. Simple pay back of 6.2 years.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding							
Construction		\$356,000				\$356,000	
Labor and G&A Expense		\$113,920				\$113,920	
TOTALS	\$0	\$469,920	\$0	\$0	\$0	\$469,920	\$469,920

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: The Energy Network preliminary estimate in December 2015. Zero design cost estimate assumes NJPA awarded contract.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction		RW Conservation	LVMWD 71%
P/W Replacement	Sanitation Replacement 100.0%		RW Replacement	TSD 29%

Rancho Lighting Efficiency Upgrade

Job Number: 60024 Project Manager: Maple FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: No
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Scope of Work

Rancho Lighting Efficiency Upgrade

Project Justification

Take advantage of energy incentives, and energy savings.

Estimated incentives of \$23,000. Estimated annual electrical and maintenance savings of \$49,000. Simple pay back of 8.7 years.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding							
Construction		\$450,000				\$450,000	
Labor and G&A Expense		\$144,000				\$144,000	
TOTALS	\$0	\$594,000	\$0	\$0	\$0	\$594,000	\$594,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: The Energy Network preliminary estimate in December 2015. Zero design cost estimate assumes NJPA awarded contract.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Grit Chamber Mixing System Replacement

Job Number: 60030 Project Manager: Dingman FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: No
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Scope of Work

Replace grit chamber mixing system with a more efficient mixing system.

Project Justification

The grit chamber uses a jet mixing system to keep light solids in suspension while heavier, inert solids settle out. There are "Blind Spots" where the grit and sludge accumulate with this system.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding					\$1,000	\$1,000	
Construction					\$100,000	\$100,000	
Labor and G&A Expense					\$32,000	\$32,000	
TOTALS	\$0	\$0	\$0	\$0	\$133,000	\$133,000	\$133,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

New RAS Wet Well and Pumps

Job Number: 60031 Project Manager: Dingman FY Originated: FY 16-17	Priority: 2 Category: Facility Improvement Program: No
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Scope of Work

Replace RAS wet well and pumps to increase pumping capacity and reliability.

Project Justification

The return activated sludge (RAS) rate has significant effect upon the BNR efficiency. If the RAS rate is increased, efficiency will improve.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design					\$100,000	\$100,000	
Bidding					\$10,000	\$10,000	
Construction					\$1,000,000	\$1,000,000	
Labor and G&A Expense					\$110,000	\$110,000	
TOTALS	\$0	\$0	\$0	\$0	\$1,220,000	\$1,220,000	\$1,220,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Pavement Restoration Tapia

Job Number: 60032 Project Manager: Dingman FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: No
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Scope of Work

Pavement restoration/slurry seal at Tapia.

Project Justification

To keep the pavement at Tapia in good repair.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding					\$3,000	\$3,000	
Construction					\$325,000	\$325,000	
Labor and G&A Expense					\$104,000	\$104,000	
TOTALS	\$0	\$0	\$0	\$0	\$432,000	\$432,000	\$432,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Staff estimate.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Pavement Restoration Rancho

Job Number: 60033 Project Manager: Dingman FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: No
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Scope of Work

Pavement restoration/slurry seal at Rancho.

Project Justification

To keep the pavement at Rancho in good repair.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding			\$4,000			\$4,000	
Construction			\$401,000			\$401,000	
Labor and G&A Expense			\$128,320			\$128,320	
TOTALS	\$0	\$0	\$533,320	\$0	\$0	\$533,320	\$533,320

APPROPRIATION REQUEST: \$0
 Cost Estimate Basis: Staff estimate.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Flow Meter Replacement - JPA Meters

Job Number: 60040 Project Manager: Anders FY Originated: FY 16-17	Priority: 1 Category: Facility Improvement Program: No
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Scope of Work

Replace end of life flow meters at two (2) locations. Includes the purchase of wireless flow meters and installation.

Project Justification

Proposal provided by ADS (current service provider) to replace end of life model wireless flow meters. The meters include technology (cellular 2G) that is scheduled to be obsolete by the end of 2016.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design	\$500					\$500	
Bidding	\$500					\$500	
Construction	\$18,825					\$18,825	
Labor and G&A Expense	\$6,024					\$6,024	
TOTALS	\$25,849	\$0	\$0	\$0	\$0	\$25,849	\$25,849

APPROPRIATION REQUEST: \$25,849

ADS proposal dated 8/5/2015.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD 71%
P/W Replacement	Sanitation Replacement 100.0%	RW Replacement		TSD 29%

Tapia: Primary Tanks No. 2 - 5 Rehabilitation

10512

<p>Job Number: 60043 Project Manager: Maple FY Originated: FY 16-17</p>	<p>Priority: 2 Category: Facility Improvement Program: No</p>
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Scope of Work

Concrete repair and the installation of a protective coating in the tanks. This project also includes the replacement of existing aluminum launders with stainless steel launders and new stainless steel inlet diffusers.

Project Justification

Tanks are 40 years old and the concrete is degrading. Launderers are delaminating and need replacement.

Tank No. 1 was completed in FY 2014-2015 under job number 10512. This project is to complete the remaining four (4) tanks.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees					\$60,000	\$60,000		
Contracts/Equipment								
District Labor					\$10,000	\$10,000		
G & A Allocations					\$20,000	\$20,000		
TOTALS					\$90,000	\$90,000		-\$90,000

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design	\$10,000	\$10,000	\$10,000			\$30,000	
Bidding	\$3,000	\$3,000	\$3,000			\$9,000	
Construction	\$480,000	\$240,000	\$240,000			\$960,000	
Labor and G&A Expense	\$153,600	\$76,800	\$76,800			\$307,200	
TOTALS	\$646,600	\$329,800	\$329,800	\$0	\$0	\$1,306,200	\$1,396,200

APPROPRIATION REQUEST: \$736,600

Cost Estimate Basis: Primary tank No. 1 was completed in FY 2014-2015 at a cost of approximately \$240,000. This amount is the basis for future costs.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Alice Stelle Recycled Water Main Extension Project

Job Number: 60045 Project Manager: Schlageter FY Originated: FY 16-17	Priority: 2 Category: Capacity/Supply Program: No
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Scope of Work

The proposed recycled water pipeline extension would be planned after the installation of the Woodland Hills Water Recycling Project. The estimated 6-inch extension would extend south from Mulholland Drive to the Alice Stelle Middle School and Freedom Park. The connection will be made within the LADWP service area and a meter will be required for providing service back to LVMWD customers.

Project Justification

To convert existing potable water irrigation (20 AFY) to recycled water irrigation reducing imported water demand, reduces creek discharge and increases beneficial reuse.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design		\$55,000				\$55,000	
Bidding		\$5,500				\$5,500	
Construction		\$550,000				\$550,000	
Labor and G&A Expense		\$60,500				\$60,500	
TOTALS	\$0	\$671,000	\$0	\$0	\$0	\$671,000	\$671,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation	100.0%	LVMWD 71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD 29%

Summer Season 2013 TMDL Compliance

Job Number: 60048 Project Manager: Lippman FY Originated: FY 16-17	Priority: 1 Category: Regulatory Compliance Program: No
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Scope of Work

Construction of a 1 MGD "side stream" treatment facility at Tapia to treat stream flow augmentation discharges to the 2013 TMDL limits of 1 mg/L total nitrogen and 0.1 mg/L total phosphorous. The cost estimate is based on membrane technology. The size is based on the maximum daily flow from 2013-2015.

Project Justification

The RWQCB is planning to approve an implementation plan for the EPA established 2013 Malibu Creek and Lagoon TMDL for Sedimentation and Nutrients to Address Benthic Community Impairments by May 2016.

The TMDL set summer season limit of 1 mg/L total nitrogen and 0.1 mg/L total phosphorus. The RWQCB has indicated that flow augmentation discharges will be required to meet this limit.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning	\$200,000					\$200,000	
Land Acquisition							
Design		\$400,000				\$400,000	
Bidding			\$40,000			\$40,000	
Construction				\$2,000,000	\$2,000,000	\$4,000,000	
Labor and G&A Expense				\$220,000	\$220,000	\$440,000	
TOTALS	\$200,000	\$400,000	\$40,000	\$2,220,000	\$2,220,000	\$5,080,000	\$5,080,000

APPROPRIATION REQUEST: \$200,000

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
	25.0%			71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	75.0%			29%

Recycled Water Tank Coating Evaluation and Repair

Job Number: 60050 Project Manager: Schlageter FY Originated: FY 16-17	Priority: 2 Category: Facility Improvement Program: No
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Scope of Work

The project consists of evaluating the coatings of three (3) steel tanks (Indian Hills, Parkway, Cordillera), that have been identified as needing possible rehabilitation based upon the annual diver's inspection report. The project would include review of the applicable inspection reports and videos and update the "Coating Evaluations and Proposed Rehabilitation Activities" report that was last prepared in June 2002 with recommended rehabilitation.

Project Justification

Proactive maintenance of the tank coatings reduces corrosion, extending the life expectancy of the tanks.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning	\$30,000					\$30,000	
Land Acquisition							
Design		\$5,000	\$5,000	\$5,000		\$15,000	
Bidding		\$500	\$500	\$500		\$1,500	
Construction		\$50,000	\$50,000	\$50,000		\$150,000	
Labor and G&A Expense		\$16,000	\$16,000	\$16,000		\$48,000	
TOTALS	\$30,000	\$71,500	\$71,500	\$71,500	\$0	\$244,500	\$244,500

APPROPRIATION REQUEST: \$30,000

Cost Estimate Basis: Construction estimates to be updated based on the recommendations of the rehabilitation identified in the report.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
		100.0%		29%

Offset to IIP No. 10602 - Misc. RW Extension

Job Number: 60054 Project Manager: Anders FY Originated: FY 16-17	Priority: 2 Category: Capacity/Supply Program: No
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Scope of Work

Project Justification

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding							
Construction	-\$354,000					-\$354,000	
Labor and G&A Expense	\$0						
TOTALS	-\$354,000	\$0	\$0	\$0	\$0	-\$354,000	-\$354,000

APPROPRIATION REQUEST: \$0

Potential grant funded by prop 84 IRWM with 50% matching funds.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation	100.0%	LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
				29%

Rancho: Replace Agitators

Job Number: 80748 Project Manager: Dingman FY Originated: FY10-11	Priority: 3 Category: Capacity/Supply Program: No
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Scope of Work

Purchase new compost agitators to replace the existing ones.

Project Justification

The existing agitators are approaching the end of their service life will need to be replaced. The original agitators had a seven year life as they were placed in service in 1994 and replaced in 2001-2002.

The existing agitators will be approaching the end of their service life. An aggressive maintenance schedule has doubled the service life of these agitators.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design							
Bidding							
Construction				\$500,000	\$500,000	\$1,000,000	
Labor and G&A Expense				\$55,000	\$55,000	\$110,000	
TOTALS	\$0	\$0	\$0	\$555,000	\$555,000	\$1,110,000	\$1,110,000

APPROPRIATION REQUEST: \$0

Staff estimate based on previous purchases.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
0.0%	0.0%	0.0%		71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
0.0%	100.0%	0.0%		29%

Process Air Improvements

Job Number: 99910 Project Manager: Dingman FY Originated: FY12-13	Priority: 3 Category: Facility Improvements Program: No
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Scope of Work

The first phase is to replace the existing Roots blowers with new, high efficiency, single stage blowers.

To replace the air diffusers in the aeration basins with new full floor mounted fine bubble diffusers.

Project Justification

The Tapia Process Air Study was completed in 2012 and showed that an annual energy savings \$184,000 could be achieved by implementing these improvements.

Additionally, aging infrastructure will be replaced and plant reliability will improve with the implementation of this program.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning	\$66,000	\$69,000				\$135,000	
Land Acquisition	\$0	\$0				\$0	
Design	\$142,000	\$148,000				\$290,000	
Bidding	\$13,200	\$13,800				\$27,000	
Construction	\$1,420,000	\$1,480,000				\$2,900,000	
Labor and G&A Expense	\$156,200	\$162,800				\$319,000	
TOTALS	\$1,797,400	\$1,873,600	\$0	\$0	\$0	\$3,671,000	\$3,671,000

APPROPRIATION REQUEST: \$1,797,400

Cost Estimate Basis: 2011 Tapia Air Study (adjusted for inflation)

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
	25.0%			71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	75.0%			29%

Rancho Las Virgenes: FOG Receiving Facilities

Job Number: 99911 Project Manager: Dingman FY Originated: FY12-13	Priority: 3 Category: Facility Improvements Program: No
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Scope of Work

To conduct a study to determine the market for local high strength wastes (food waste, fats, oils, and grease (FOG)) that can be fed into the third digester. After completion of the study, the installation of facilities for receiving and conveying fats, oils, and grease (FOG) and food waste into the newly constructed third digester.

Project Justification

The FOG introduced into the new digester is expected to increase the amount of gas generated and to reduce the amount of sludge produced while reducing odor potential. The gas can be used to create energy through co-generation facilities.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning		\$25,000	\$10,000			\$35,000	
Land Acquisition			\$0			\$0	
Design			\$60,000			\$60,000	
Bidding			\$6,000			\$6,000	
Construction			\$600,000			\$600,000	
Labor and G&A Expense			\$66,000			\$66,000	
TOTALS	\$0	\$25,000	\$742,000	\$0	\$0	\$767,000	\$767,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: 2014 Sanitation Master plan with additional staff estimates

Fund:	% of Project Allocated by		JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation	LVMWD
	20.0%		71%
P/W Replacement	Sanitation Replacement	RW Replacement	TSD
	80.0%		29%

Rancho Las Virgenes Sludge Thickening

Job Number: 99926 Project Manager: Dingman FY Originated: FY13-14	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

Installation of a thickening centrifuge or rotary drum at Rancho to increase the solids percentage of raw sludge before it is fed to the digesters.

Project Justification

This project will thicken the sludge before it is fed to the digesters which would provide an increase in capacity.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning			\$25,000			\$25,000	
Land Acquisition							
Design			\$50,000			\$50,000	
Bidding			\$5,000			\$5,000	
Construction			\$500,000			\$500,000	
Labor and G&A Expense			\$55,000			\$55,000	
TOTALS	\$0	\$0	\$635,000	\$0	\$0	\$635,000	\$635,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: 2014 Sanitation Master Plan

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Tapia Automated Filter Wash down

Job Number: 99967 Project Manager: Dingman FY Originated: FY15-16	Priority: 3 Category: Facility Improvements Program: No
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Scope of Work

This project provides piping, solenoids, wash down sprayers and SCADA control integration to allow for automatic backwashing of the 12 tertiary filters at Tapia.

Project Justification

Automating the backwashing of filters will allow for this activity to occur at night when flows are low. Currently, the filters are backwashed during the day and cause a higher peak flow due to the waste wash water being pumped into the influent sewer.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design			\$10,000			\$10,000	
Bidding			\$1,000			\$1,000	
Construction			\$100,000			\$100,000	
Labor and G&A Expense			\$32,000			\$32,000	
TOTALS	\$0	\$0	\$143,000	\$0	\$0	\$143,000	\$143,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Staff estimate.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction		RW Conservation	LVMWD 71%
P/W Replacement	Sanitation Replacement	100.0%	RW Replacement	TSD 29%

Primary Effluent Equalization

Job Number: 99972 Project Manager: Lippman FY Originated: FY 15-16	Priority: 3 Category: Facility Improvements Program: No
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Scope of Work

Design and construct 1.25 million gallons of primary effluent equalization storage. The storage will be located at the "bone yard."

Project Justification

Primary effluent equalization will dampen peak flows into Tapia allowing greater control over hydraulic loading of the plant processes improving performance and reliability.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning			\$50,000			\$50,000	
Land Acquisition							
Design			\$440,000			\$440,000	
Bidding				\$4,000		\$4,000	
Construction				\$2,200,000	\$2,200,000	\$4,400,000	
Labor and G&A Expense				\$242,000	\$242,000	\$484,000	
TOTALS	\$0	\$0	\$490,000	\$2,446,000	\$2,442,000	\$5,378,000	\$5,378,000

APPROPRIATION REQUEST: \$0

Hazen-Sawyer 2015 Report.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

A/B Bus Electrical Modification

Job Number: 99975 Project Manager: Korkosz FY Originated: FY 15-16	Priority: 3 Category: Business Improvements Program: No
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Scope of Work

Study the feasibility of reconfiguring the Tapia electrical switch gear and then hire electrical team to make the modifications.

Construction cost estimates will be developed following the completion of the feasibility study.

Project Justification

The main electrical switch gear at Tapia operates on two power phases (Wye / Delta). The two phases aren't compatible and inhibit staff's ability to shut off power at the plant for repairs.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design			\$100,000			\$100,000	
Bidding							
Construction							
Labor and G&A Expense							
TOTALS	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Staff estimate for study only. Construction cost estimate will be developed following the completion of the feasibility study.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD 71%
P/W Replacement	Sanitation Replacement 100.0%	RW Replacement		TSD 29%

Ovation Upgrade

Job Number: 99978 Project Manager: Miller FY Originated: FY 15-16	Priority: 3 Category: Business Improvements Program: No
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Scope of Work

Future upgrade of Rancho control system.

Project Justification

The current control system is nearing the end of its useful life.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design					\$5,000	\$5,000	
Bidding							
Construction					\$475,000	\$475,000	
Labor and G&A Expense					\$152,000	\$152,000	
TOTALS	\$0	\$0	\$0	\$0	\$632,000	\$632,000	\$632,000

APPROPRIATION REQUEST: \$0

Staff estimate.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Agoura Road Extension Phase II

Job Number: 99981 Project Manager: Schlageter FY Originated: FY 15-16	Priority: 3 Category: Delivery Reliability Program: No
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Scope of Work

The project consists of continuation of the 8" recycled water main gap closure identified in the 2007 Recycled Water Master Plan. The project will complete the closure from where the first phase of the project ended as part of the City's Agoura Road widening project.

Project Justification

The project will close a system gap and provide system redundancy, improve reliability, and serve future development.

The project should be considered & coordinated with the City of Agoura Hills to time the project with future paving and street improvement projects.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design				\$150,000		\$150,000	
Bidding							
Construction					\$1,500,000	\$1,500,000	
Labor and G&A Expense					\$165,000	\$165,000	
TOTALS	\$0	\$0	\$0	\$150,000	\$1,665,000	\$1,815,000	\$1,815,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Estimate is based on 1st phase bid results.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD 71%
P/W Replacement	Sanitation Replacement	RW Replacement 100.0%		TSD 29%

OFFSET OF IIP #10588

Job Number: 99996 Project Manager: Anders FY Originated: FY 15-16	Priority: 2 Category: Business Improvements Program: No
--	--

Scope of Work

This project identifies the anticipated reimbursement from the City of Los Angeles for work related to the Woodland Hills Golf Course recycled waterline extension.

Project Justification

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY12-13	FY 13-14	FY 14-15	FY 15-16	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees					-\$350,000	-\$350,000		
Contracts/Equipment								
District Labor				-\$3,922	-\$5,179	-\$9,101		
G & A Allocations				-\$8,444	-\$5,147	-\$13,591		
TOTALS				-\$12,366	-\$360,326	-\$372,692		\$372,692

Proposed Project Expenditures

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5-Year Total	Total Project (projected)
Planning							
Land Acquisition							
Design	-\$1,060,000					-\$1,060,000	
Bidding		-\$50,000				-\$50,000	
Construction		-\$7,600,000	-\$7,600,000			-\$15,200,000	
Labor and G&A Expense		-\$456,000	-\$456,000			-\$912,000	
TOTALS	-\$1,060,000	-\$8,106,000	-\$8,056,000	\$0	\$0	-\$17,222,000	-\$17,594,692

APPROPRIATION REQUEST: \$0

Reimbursement placeholder - based on anticipated cost of Project #10588.

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation	100.0%	LVMWD 71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD 29%

Section 4

Planning Guidelines for Project Costs

All estimated costs for a project will be based on the estimated construction cost of the work.

To estimate Construction Costs use:

- Previous project work of similar scope and complexity
- Previous estimates for work updated and inflated by 3% compounded for each year since the estimate was prepared
- Project costs shown in the current Master Plan
- Means Estimating Guides (available in Engineering)
- Project costs shown in recent Water System Design Reports for pipelines, tanks, pump stations and the like
- Use 15% for contingency costs

To estimate Planning Costs use:

- Preliminary Design Report - 5% of Construction Cost
- Environmental Reports
 - \$10-20,000 for Neg Dec's/MND's
 - \$150,000 - 350,000 for full EIR's (depending on complexity)

Land Acquisition Costs:

- Rural land use \$5,000/acre
- Urbanized land use \$50,000/acre
- For fees use 10% of acquisition cost

Design Costs

- Use 10% of Construction Cost (Assume consultants bill at \$125/hr)
- For very complex projects with numerous staff reviews use 15%

Bidding Costs

- Use 1% of Construction Cost

Other Costs related to construction

- Surveillance/inspection and administration use 6%
- Testing and other laboratory work use 2%
- District furnished equipment use vendor catalogs/pricing
- Construction Management Costs use 10% (private consultant)
- Operation and Maintenance Manual Preparation use 2%

District Labor and G&A Guidelines:

<u>Construction Cost</u>	<u>Labor</u> <u>(as % of Construction)</u>	<u>G&A</u> <u>(as % of Construction)</u>
< \$500K	12%	20%
\$500K - \$5M	4%	7%
> \$5M	2%	4%

Priority and Justification Criteria

Priority:

This identifies projects with a vocabulary of timeliness and need sensitivity. The higher priorities reflect projects that are typically driven by external needs or regulations rather than district needs. The overall CIP Program is achieved by a blend of projects in all Priorities consistent with fund availability.

1. Essential Projects
 - Required by law, regulation, or court mandate to be accomplished immediately.
 - Disaster recovery work needed to restore service
 - Emergency repairs to maintain/restore service reliability, or to resolve or correct a hazardous situation.
2. Necessary Projects
 - High need for scheduled repair, replacement, or upgrade to maintain or improve service reliability
 - Safety improvement to protect life or property
 - Improvement to protect facilities, equipment and structures
 - Cost related efficiency improvements
 - Conservation of resources
 - Water quality improvements - no regulatory requirement
 - Matching funding available (like grants)
 - Current demand related improvements
3. Desirable or Deferrable Projects
 - Routine improvements or repairs to systems
 - No direct cost benefit
 - Cosmetic improvements
 - Future demand related improvements

Justification Categories

The intent here was to group projects with similar reasons for being done or outcomes for ease of analysis of how Capital funds are being invested over time. It provides another index to analyze how the district is investing in facilities for the short and long-range future. The key question answered by this index is "Why is this project being done?"

1. Safety
2. Water Quality
3. Delivery reliability
4. Regulatory Requirements
5. System Supply or Demand
6. Business Improvements (i.e., how we enhance our business practices)
7. Facility Improvements (i.e., upgrades and enhancements in general)

Roles and Responsibilities for Project Managers

- A. **Project Planning**
 - 1. Review current CIP for continuation of existing projects
 - 2. Review current CIP for projects programmed for next fiscal year
 - 3. Update status and data for existing projects on Project Sheets
 - 4. Review Master Plan or other studies and reports for new projects
 - 5. Review operational problems which need correction with CIP project work
 - 6. Brainstorm with users to identify CIP requirements
 - 7. Review various permits issued to operate facilities for new or added CIP project requirements
 - 8. Review regulatory requirements for new CIP project needs to meet compliance needs
 - 9. Consider 'wish list' needs for CIP projects

- B. **Project Development**
 - 1. Prepare CIP Project Sheet
 - 2. Write/verify Project Scope
 - 3. Write Justification for Project
 - 4. Compute Project Costs
 - 5. Determine Program Year(s) for Project

- C. **5-Year CIP Program Preparation**
 - 1. Verify project scope, justification, costs, program year
 - 2. Provide answers and feedback as necessary
 - 3. Participate in planning meetings

- D. **CIP Program Execution**
 - 1. Serve as single point of contact for project - assume ownership
 - 2. Establish schedule for work
 - 3. Establish significant milestones for work
 - 4. Establish budget for work
 - 5. Track/approve monthly invoices and costs of work on project
 - 6. Monitor progress of work, resolve issues, and keep project moving
 - 7. Provide quarterly status reports (consider costs, schedule, problems, slippages, etc.)
 - 8. Prepare necessary Board packages for review/approval of budget changes or other authorizations
 - 9. Provide quarterly cash flow projections
 - 10. Prepare project completion documents

February 1, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Primary Clarifier Tank Nos. 2 and 3 Rehabilitation Project: Approval of Request for Proposals

SUMMARY:

Staff is seeking approval to release a Request for Proposals for condition assessment and design for Primary Clarifier Tank Nos. 2 and 3 at the Tapia Water Reclamation Facility as part of a multi-year, multi-phase rehabilitation project.

RECOMMENDATION(S):

Approve the Request for Proposals for evaluation and design services for the Primary Clarifier Tank Nos. 2 and 3 Rehabilitation Project.

FISCAL IMPACT:

No

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

There is no financial impact associated with the issuance of a Request for Proposals.

DISCUSSION:

Primary sedimentation at the Tapia Water Reclamation Facility is accomplished using five concrete rectangular concrete clarifier tanks that are approximately 125 feet long, 20 feet wide, and 12 feet deep. With approximately 40 years of operation, the concrete in and around the primary clarifiers has deteriorated due to exposure to raw wastewater and corrosive gas. Concrete spalling has been observed in several places on the deck of the tanks, and inspection revealed locations of "softened" concrete as well as corroded launders and diffusers.

On October 2, 2014, the JPA Board accepted the completion of the Primary Clarifier No. 1

Rehabilitation Project, which included the removal and replacement of launders and diffusers with stainless equivalents, and the repair of spalled concrete surfaces. This was the first phase in the rehabilitation of all five primary clarifier tanks. Work on the tanks must occur in phases to accommodate normal wastewater treatment operations.

This Request for Proposals for the Primary Clarifier Tank Nos. 2 and 3 Rehabilitation Project seeks the services of an engineering firm to build from the base design from the previously completed Primary Clarifier No. 1 Rehabilitation Project, as well as provide a condition assessment for Tanks Nos. 2 and 3, prepare plans and specifications for the project, and provide design support during construction.

The Request for Proposals schedule is as follows:

Approval of Request for Proposals	February 1, 2016
Proposals Due	February 19, 2016
Review Proposals	February 22, 2016
Acceptance of Proposal	March 7, 2016

Prepared by: Eric Maple. P.E., Associate Engineer

ATTACHMENTS:

Request for Proposals



REQUEST FOR PROPOSALS
FOR

TAPIA WATER RECLAMATION FACILITY

Primary Clarifiers No. 2 & 3 Rehabilitation
Design and Support during Construction

PROPOSALS DUE Friday, February 19, 2016

LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 LAS VIRGENES ROAD
CALABASAS, CA 91302
818.251.2100

February 2016

REQUEST FOR PROPOSALS
Las Virgenes Municipal Water District

TABLE OF CONTENTS

- I. Introduction
- II. Background Information
- III. Scope of Work
- IV. Services Provided by District
- V. Minimum Consultant Qualifications
- VI. Proposal Requirements
- VII. Evaluation Criteria
- VIII. RFP Schedule

ATTACHMENTS (COMPACT DISK)

- Plans and Specifications for Primary Clarifier No.1 Rehabilitation Project
- Change Orders for Primary Clarifier No.1 Rehabilitation Project

I. INTRODUCTION

The Las Virgenes Municipal Water District invites your firm to submit a proposal to provide engineering services of design and support during construction for the rehabilitation of Primary Clarifier Tanks No. 2 & 3 at the Tapia Water Reclamation Facility. Engineering services will include:

- Condition assessment, Design, and design support during construction.

A scope of work is included to assist you in the preparation of your proposal. Failure to submit information in accordance with the requirements in this Request for Proposal (RFP) may be cause for disqualification.

Firms may request (not required) a meeting before the proposal deadline by contacting the Project Manager, Eric Maple, P.E. at 818-251-2147 or via email at EMaple@LVMWD.com.

You may direct any questions regarding this Request for Proposal to Eric Maple at the contact info noted above.

II. BACKGROUND INFORMATION

The Las Virgenes Municipal Water District (LVMWD) is a special district established in 1958. The service area encompasses 122-square miles in western Los Angeles County and includes the incorporated cities of Hidden Hills, Calabasas, Agoura Hills and Westlake Village, as well as unincorporated areas. The District provides potable water, recycled water and wastewater service to a population of approximately 65,000. Triunfo Sanitation District (TSD) within Ventura County is a joint venture partner with LVMWD in wastewater and recycled water service.

The Tapia WRF was originally constructed in 1965 and provides tertiary treatment for municipal wastewater from domestic, commercial, and industrial sources. The Tapia WRF has undergone several expansions and currently treats approximately 9.5 million gallons of wastewater on an average dry weather day; and the design flow capacity of the plant is 16.1 million gallons per day (mgd). The plant uses the following treatment process sequence: coarse screening, grit removal, primary sedimentation, secondary treatment, tertiary treatment, chlorination, and dechlorination.

Primary sedimentation is accomplished using five concrete, rectangular sedimentation tanks that are approximately 125 feet long, 20 feet wide, and 12 feet deep. Over time, the concrete in and around the primary clarifiers has deteriorated due to exposure to influent wastewater. Concrete spalling has been observed in several places on the clarifier deck of the original tanks; and inspection of the tank interior revealed locations of "softened" concrete. Because of this, the JPA has decided to rehabilitate the clarifiers. The project will occur in phases to accommodate normal wastewater treatment operation. The first phase was the completion of the Primary Clarifier Tank No. 1 in November 2014. See attached Primary Clarifier No. 1 Rehabilitation project files including change order documents and plans and specifications.

III. SCOPE OF WORK

The selected firm will have the lead in assessing the existing condition of primary clarifier tanks No. 2 and 3, recommending scope for rehabilitation, performing design that incorporates

lessons learned from the Clarifier No. 1 Rehabilitation project, and provide design support during construction, as summarized below:

- Evaluation and/or physical testing to determine what must be repaired or replaced within primary clarifier tanks No. 2 and 3 including concrete, joint sealant, rebar, diffusers, launders, beams and any other mechanical equipment.
- Detailed design including materials selection for the selected rehabilitations which will mostly include concrete coating among other scope.
- Constructability and QA/QC review of design, quantities, and methods of measurement/construction.
- Engineer stamped Plans and Specifications ready to bid
- Engineer's Estimate
- Bidding assistance in answering any RFI's and attending the Pre-Bid Meeting
- Design support during construction including attendance of 1 Pre-Construction Meeting, 5 weekly meetings, 2 site visits, and 1 punchlist walk-through.
- Creation of Record Drawings in AutoCAD, as well as one set on Mylar based on redlines provided by contractor.

IV. SERVICES OR DATA PROVIDED BY DISTRICT

The District will provide the following data, access, services or resources:

- Access to the facilities.
- District will perform construction management and inspection.
- Previous project files including plans and specs from the Clarifier No. 1 Rehabilitation Project.
- District staff to answer questions.

V. MINIMUM CONSULTANT QUALIFICATIONS

The selected firm shall have staff registered as a State of California Professional Engineer.

The District's standard Agreement for Professional Services is included as an attachment. The consultant shall have the ability to execute the agreement in this form. Professional liability insurance in the amount of \$2 million is required.

VI. PROPOSAL REQUIREMENTS

- 1) Legal name of firm with address, telephone number and the name of at least one principal.
- 2) Project understanding and approach.
- 3) A recommended scope of work which clearly displays an understanding of the project
- 4) Names and résumés of individual(s) proposed to perform the services, including proof of professional registrations, as appropriate.
- 5) Description of the firm's internal quality control process.
- 6) Names, qualifications and principals of any sub-consultants to be utilized in providing the service(s).
- 7) References for 3 recently completed projects of similar size and scope, including contact person and telephone number.
- 8) Certificate of professional liability insurance.

- 9) Cost to perform the delineated services and schedule of rates. The proposal shall have both the qualifications and cost in one package.
- 10) List any assumptions.

VII. EVALUATION CRITERIA

Proposals will be evaluated based upon the following:

- 1) Expertise in performing the tasks noted in the Scope of Work.
- 2) The quality of performance on past projects, including those on which the proposed team has worked together.
- 3) The ability to meet time schedules and complete the work within established budgets.
- 4) The ability to provide a comprehensive and understandable scope of work.
- 5) The firm's history and resource capacity to perform the requested service.
- 6) The experience and qualifications of assigned personnel.
- 7) Proposals will be reviewed for qualifications and price at the same time.

VIII. REQUEST FOR PROPOSAL SCHEDULE

Approval of Request for Proposals	February 1, 2016
Pre-proposal Meeting (not required)	If requested by consultant
Proposal Due Date (3:00 p.m.)	February 19, 2016
Review Proposals (week of)	February 22, 2016
Acceptance of Proposal (Board meeting)	March 7, 2016

Please submit five (5) physical copies and one (1) digital of your proposal no later than 3:00 p.m. on February 19, 2016 by mailing them to:

Attn: Eric Maple
 4232 Las Virgenes Road
 Calabasas, CA 91302

February 1, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Finance & Administration

Subject : Budget Planning Calendar for Fiscal Year 2016-17

SUMMARY:

This item provides the schedule for key activities associated with development and adoption of the Fiscal Year 2016-17 Budget.

RECOMMENDATION(S):

Receive and file the Budget Planning Calendar and provide feedback on a proposal for development of a two-year budget plan.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

DISCUSSION:

Each year, the JPA Board is involved in the development of the following fiscal year's budget. Attached is a schedule of the key milestones associated with the development and adoption of the Fiscal Year 2016-17 Budget.

At its January 26, 2016 meeting, the LVMWD Board authorized staff to develop a two-year budget for fiscal years 2016-17 and 2017-18. A two-year budget process allows the District to have a longer-term financial plan, which improves program monitoring, evaluation and financial management. Two-year budgets are an increasingly common tools for public agencies. Locally, two-year budgets are prepared by numerous cities and water agencies, including the Metropolitan Water District of Southern California, Western Municipal Water District, Eastern Municipal Water District, and the cities of Thousand Oaks, Camarillo, and Santa Monica.

Article 2 of the Joint Exercise of Powers Agreement for the JPA defines specific processes for the development of an annual budget. Staff proposes the JPA develop a two-year budget plan that is consistent with the terms of the JPA Agreement, while also providing some of the

benefits of a two-year budget. Specifically, as proposed, staff would present a two-year budget plan to the JPA Board on alternate years, beginning with fiscal years 2016-17 and 2017-18. The two-year budget plan would provide the long-term advantages of a two-year budget, specifically by providing for longer-term financial planning, program monitoring and evaluation. The JPA Board would approve the two-year plan, but only adopt the next fiscal year's budget, consistent with the JPA Agreement. In the second year, the Board would review the approved budget plan and maintain the opportunity make any necessary adjustments to the fiscal year budget prior to its adoption by July 1st.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Mark Uribe, Finance Manager

ATTACHMENTS:

JPA Budget Planning Calendar

Las Virgenes-Triunfo Joint Powers Authority

FY 2016-17 Budget Planning Calendar

Date	Board Activity	Description
2/1/2016	Board Meeting	Budget Process review - distribute Budget Planning Calendar Quarterly Financial Review - Second Quarter IIP Review
2/10/2016	-	Budget submissions from TSD due to Administering Agent
3/7/2016	Board Workshop	Budget Workshop
3/30/2016	-	Meetings with GM/Department staff, TSD staff
5/2/2016	Board Meeting	Quarterly Financial Review - Third Quarter Preliminary Budget provided to Board
6/6/2016	Board Meeting	Budget Adoption

February 1, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Finance & Administration

Subject : Financial Review: Second Quarter of Fiscal Year 2015-16

SUMMARY:

The second quarter Financial Review presents data as of December 31, 2015. This represents the halfway point of the fiscal year for monitoring purposes. It is important to note that due to the timing of various projects and payments, the second quarter report should be used to identify areas where attention needs to be focused to determine if there is an emerging trend that may affect the JPA's position at fiscal year-end.

RECOMMENDATION(S):

Receive and file the financial review for the second quarter of Fiscal Year 2015-16.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

DISCUSSION:

The JPA's second quarter net uses of funds for Fiscal Year 2015-16 totaled \$7.5 million, compared to \$7.8 million for the same period in Fiscal Year 2014-15. Year-over-year reductions in operating revenues (4.5%) and operating expenditures (6.1%), were partially offset by an increase in capital expenditures (10.1%) when comparing the two points in time.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Mark Uribe, Finance Manager

ATTACHMENTS:

Second Quarter Financial Review



Joint Powers Authority Second Quarter Financial Review

	FY 14-15 Actual YTD	FY 15-16 Budget YTD	FY 15-16 Actual YTD
Net Uses of Funds	\$7,784,895	\$10,598,396	\$7,534,978
LV Share	\$5,365,382	\$7,345,571	\$5,200,397
TSD Share	\$2,416,513	\$3,252,825	\$2,334,581

Joint Powers Authority Operations

Quarterly Update - Comparison to Budget & Prior Year at December 31, 2015				
	FY 14-15 Actual YTD	FY 15-16 Budget YTD	FY 15-16 Actual YTD	
Total Operating Revenues	\$ 1,400,290	\$ 1,409,796	\$ 1,337,967	
RW Pump Station	828,152	788,136	607,998	
RW Tanks & Reservoirs	30,492	43,769	47,747	
RW System Operations	17,286	16,422	19,536	
RW Distribution	60,617	53,832	40,514	
Sewer	133,233	123,036	69,367	
Waste Water Treatment	3,846,913	3,780,250	3,723,047	
Composting	1,954,149	2,505,290	1,979,483	
Farm Operation	180,077	193,169	170,657	
Adminstration	515,915	556,275	443,723	
Total Operating Expenses	7,566,834	8,060,179	7,102,072	
Net Operating (Expenses)	\$ (6,166,544)	\$ (6,650,383)	\$ (5,764,105)	

Comparison to Prior Year and Budget

	Prior Year (FY 14-15)	Actual (FY 15-16)	Budget (FY 15-16)
Operating Revenues	\$1,400,290	\$1,337,967	\$1,409,796
Operating Expenses	\$7,566,834	\$7,102,072	\$8,060,013
Capital Project Expenses	\$1,622,221	\$1,786,076	\$3,954,013

Joint Powers Authority Operations
Quarterly Update - Comparison to Budget & Prior Year at December 31, 2015
FY 15-16 Year to Date

	<u>FY 14-15 Actual YTD</u>	<u>FY 15-16 Budget YTD</u>	<u>FY 15-16 Actual YTD</u>
<u>Total Revenues</u>			
Operating Revenues	\$ 1,400,290	\$ 1,409,796	\$ 1,337,967
Other Revenues	6,870	6,000	15,203
Total Revenues	<u>1,407,160</u>	<u>1,415,796</u>	<u>1,353,170</u>
<u>Total Expenses</u>			
Operating Expenses	\$ 7,566,834	\$ 8,060,179	\$ 7,102,072
Capital Project Expenses	1,622,221	3,954,013	1,786,076
Total Expenses	<u>9,189,055</u>	<u>12,014,192</u>	<u>8,888,148</u>
Net (Uses) of Funds	<u>\$ (7,781,895)</u>	<u>\$ (10,598,396)</u>	<u>\$ (7,534,978)</u>
Las Virgenes Share	<u>(5,365,382)</u>	<u>(7,345,571)</u>	<u>(5,200,397)</u>
Triunfo Share	<u>(2,416,513)</u>	<u>(3,252,825)</u>	<u>(2,334,581)</u>

Joint Powers Authority Operations
Quarterly Update - Comparison to Budget & Prior Year as of December 31, 2015
FY 15-16 To Date

	<u>FY 14-15 Actual</u> <u>YTD</u>	<u>FY 15-16 Budget</u> <u>YTD</u>	<u>FY 15-16 Actual</u> <u>YTD</u>
<u>Las Virgenes Share:</u>			
<u>Total Revenues</u>			
Operating Revenues	\$ 988,605	\$ 995,316	\$ 944,605
Other Revenues	4,850	4,236	9,296
Total Revenues	<u>993,455</u>	<u>999,552</u>	<u>953,901</u>
<u>Total Expenses</u>			
Operating Expenses	\$ 5,213,549	\$ 5,553,589	\$ 4,893,328
Capital Project Expenses	1,145,288	2,791,533	1,260,970
Total Expenses	<u>6,358,837</u>	<u>8,345,123</u>	<u>6,154,297</u>
Net (Uses) of Funds - LV	<u>\$ (5,365,382)</u>	<u>\$ (7,345,571)</u>	<u>\$ (5,200,397)</u>
<u>Triunfo Share:</u>			
<u>Total Revenues</u>			
Operating Revenues	\$ 411,685	\$ 414,480	\$ 393,362
Other Revenues	2,020	1,764	5,907
Total Revenues	<u>413,705</u>	<u>416,244</u>	<u>399,269</u>
<u>Total Expenses</u>			
Operating Expenses	\$ 2,353,285	\$ 2,506,590	\$ 2,208,744
Capital Project Expenses	476,933	1,162,480	525,106
Total Expenses	<u>2,830,218</u>	<u>3,669,069</u>	<u>2,733,851</u>
Net (Uses) of Funds - TSD	<u>\$ (2,416,513)</u>	<u>\$ (3,252,825)</u>	<u>\$ (2,334,581)</u>
Total JPA Net (Uses) of Funds	<u>\$ (7,781,895)</u>	<u>\$ (10,598,396)</u>	<u>\$ (7,534,978)</u>

Joint Powers Authority Operations

Quarterly Update - Comparison to Budget & Prior Year at December 31, 2015

	FY 14-15 Actual YTD	FY 15-16 Budget YTD	FY 15-16 Actual YTD
Total Operating Revenues	\$ 1,400,290	\$ 1,409,796	\$ 1,337,967
RW Pump Station	828,152	788,136	607,998
RW Tanks & Reservoirs	30,492	43,769	47,747
RW System Operations	17,286	16,422	19,536
RW Distribution	60,617	53,832	40,514
Sewer	133,233	123,036	69,367
Waste Water Treatment	3,846,913	3,780,250	3,723,047
Composting	1,954,149	2,505,290	1,979,483
Farm Operation	180,077	193,169	170,657
Adminstration	515,915	556,275	443,723
Total Operating Expenses	7,566,834	8,060,179	7,102,072
Net Operating (Expenses)	\$ (6,166,544)	\$ (6,650,383)	\$ (5,764,105)

INFORMATION ONLY

February 1, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

**Subject : Tapia NPDES Permit Renewal and Malibu Creek TMDL Implementation
Plan: Status Report**

SUMMARY:

On January 6, 2016, staff, Larry Walker Associates and The Fresh Water Trust met with the Executive Officer of the Regional Water Quality Control Board (RWQCB) and his staff to discuss the renewal of the Tapia NPDES Permit and the JPA's four-prong approach to TMDL compliance. At the meeting, RWQCB staff explained that a TMDL implementation plan would be proposed for adoption at the June 9, 2016 RWQCB Board meeting and the NPDES Permit renewal hearing would be in September. Given the proposed schedule, RWQCB staff requested that the JPA provide a proposed strategy and schedule for compliance with Tapia's summer and winter season waste load allocations specified in the Malibu Creek TMDL. Staff provided the attached draft strategy and schedule, focusing on the JPA's long-term effort to maximize beneficial reuse and minimize discharges to Malibu Creek.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

FINANCIAL IMPACT:

There is no financial impact associated with the status report. The financial impact of TMDL compliance and renewal of the NPDES permit are not known at this time but will likely be significant.

DISCUSSION:

Background:

The JPA adopted a strategy to address increasingly stringent regulatory standards for Malibu Creek on March 29, 2013 and guiding principles for seasonal storage of recycled water on

June 2, 2014. Staff has used the adopted strategy and guiding principles in developing plans to maximize the beneficial use of recycled water and negotiate the Tapia NPDES Permit renewal.

As discussed at the January 4, 2016 JPA Board meeting, the adopted strategy and guiding principles have recently coalesced into a proposed four-pronged approach to achieve maximum beneficial reuse and improve watershed health. The four prongs entail the following actions: (1) **research** – conducting and participating in studies of the impact of invasive species and geology on the watershed; (2) **optimize** – enhancing nutrient removal at Tapia via process optimizations also aimed to improve wet-weather treatment capacity; (3) **reduce** – initiating and implementing a pilot project to reduce nutrient loading via a watershed-wide management approach; and (4) **reuse** - implementing seasonal storage of recycled water to maximize reuse and minimize discharges.

On January 6, 2016 staff, Larry Walker Associates and The Fresh Water Trust met with the Executive Officer of the RWQCB and his staff to share the four-pronged approach, receive feedback and gain a better understanding of the schedule for a proposed TMDL implementation plan and NPDES Permit adoption. For the most part, the Executive Officer and his staff were receptive to the JPA's proposed approach.

TMDL Implementation Plan and Schedule:

In 2013, the USEPA established the *Malibu Creek and Lagoon TMDL for Sedimentation and Nutrients to Address Benthic Community Impairments*. The TMDL included recommendations for implementation of nutrient and sediment waste load allocations. The RWQCB is responsible to implement the TMDL via an implementation plan, which they plan to propose for adoption at their June RWQCB Board meeting.

Assuming a June 9, 2016 adoption hearing, the schedule would be as follows:

1. Draft implementation plan would be released for public comments 72 days before hearing with comments due 45 days after release (mid-March release with comments due late-April).
2. RWQCB adoption hearing (June 9, 2016 assumed).
3. State Water Resources Control Board (SWRCB) adoption hearing would be 6 to 9 months after RWQCB adoption hearing. The plan would be released prior to the hearing for public review with comments due within 45 days.
4. Office of Administrative Law (OAL) would approval the plan 2 to 4 months after the SWRCB adoption hearing.
5. Implementation plan would become effective after OAL approval.

The total time from RWQCB hearing to effective date is typically between 9 months and 1 year. Based on a June 9, 2016 RWQCB hearing, the plan would be effective between March and June 2017. The USEPA does not need to approve implementation plans.

Given the schedule, RWQCB staff asked the JPA provide proposed near- and long-term actions and a schedule to achieve the proposed summer and winter season nutrient waste load allocations. There was an urgency on their part because of the proposed mid-March release date for the implementation plan.

Staff provided the attached near- and long-term actions for compliance with the summer season waste load allocation 5 years after approval of the implementation plan and compliance with the winter season waste load allocations 15 years after approval.

Summer season compliance could be achieved in various ways such as construction of a side-stream treatment facility at Tapia, discharging potable water for creek augmentation, achieving sufficient nutrient reduction through watershed wide projects or reconsideration of the waste load allocations in the TMDL based on the results of special studies. The schedule proposes that in the first two years of the implementation schedule that the special studies, compliance evaluation and watershed study would be completed. In the third year, a compliance strategy would be selected with implementation proposed in the fourth and fifth year.

Winter season compliance would be achieved by implementing a major water reuse project, in particular either repurposing Encino Reservoir or using Las Virgenes Reservoir for an indirect potable reuse (IPR) project. The schedule proposes selection of the major reuse project in the first year of the plan with pre-design and CEQA completed by the fifth year with project completion within 15 years.

Tapia NPDES Permit Renewal:

RWQCB staff explained that the Tapia NPDES Permit renewal hearing is proposed for September 2016. The RWQCB was primarily focused on summer season compliance, rather than winter season compliance, during the permit cycle and viewed side-stream treatment as the solution. It is likely that the RWQCB will require milestones via a time schedule order or compliance schedule to achieve the summer season limits within the term of the NPDES Permit. Milestones occurring within the first five years of the implementation plan would be included in the NPDES Permit. In the near future, another meeting will be held with RWQCB staff to discuss other details of the permit such as changes to sampling locations. Although these details do not focus on TMDL compliance, they are very important to the success and efficient operation of the facility, and compliance with the many other requirements of the permit.

Prepared by: David R. Lippman, P.E., Director of Facilities and Operations

ATTACHMENTS:

Draft Input for Implementation Plan and Compliance Schedule

Proposed Implementation Plan and Compliance Schedule
Malibu Creek & Lagoon TMDL for Sedimentation and
Nutrients to Address Benthic Community Impairments

January 22, 2016

The Las Virgenes-Triunfo Joint Powers Authority (JPA) has developed a conceptual compliance approach for the TMDL as it applies to the Tapia Water Reclamation Facility (Tapia) that will inform the implementation schedule. The approach is defined by a combination of near- and long-term actions to achieve the objectives of the TMDL. The ultimate strategy is based on implementation of a major water reuse project to maximize the beneficial use of treated effluent from Tapia and minimize discharges to Malibu Creek.

Near-Term Actions:

- Complete a study to evaluate compliance alternatives for Tapia's Summer Season TMDL Waste Load Allocations.
- Perform research on the relationship between invasive species and benthic community health.
- Perform research to evaluate the impact of geology, in particular the Monterey/Modelo Formation, on nitrogen and phosphorous levels in the watershed and the associated impact to benthic community health.
- Conduct a watershed study, with input from the RWQCB and stakeholders, to identify restoration actions, activities and projects that may improve watershed health as envisioned by the TMDL. Should watershed actions be shown to have similar watershed benefits as treatment options, the study will propose a mechanism to demonstrate that the watershed actions will meet the goals of the TMDL.
- Develop a Summer Season TMDL compliance strategy based on the results of the above-described studies.
- Implement the Summer Season TMDL compliance strategy. The first deliverable would be a detailed schedule with specific milestones for the approved compliance strategy. Note: Upon approval of the RWQCB, watershed actions with sufficient demonstration of benefits could be utilized for compliance in lieu of treatment options.

Long-Term Actions:

- Plan, design, construct and operate a major water reuse project as described in the JPA's *Recycled Water Seasonal Storage Facility Plan of Action*, dated June 19, 2015, and currently described as Scenario No. 4, Indirect Potable Reuse at Las Virgenes Reservoir, or Scenario No. 5, Encino Reservoir for Seasonal Storage.

Proposed TMDL Implementation Plan

TMDL Action	Description	Due Date
1	Submit results of compliance alternatives evaluation for Summer Season WLAs.	1 year after effective date of implementation plan
2	Submit results of research on invasive species and geology.	2 years after effective date of implementation plan
3	Complete watershed study.	2 years after effective date of implementation plan
4	Submit Summer Season TMDL compliance strategy, including a schedule and interim milestones, based on results of compliance alternatives evaluation, research and optional watershed study.	3 years after effective date of implementation plan
5	Begin implementation of Summer Season compliance strategy (see Note 1).	4 years after effective date of implementation plan
6	Reconsider implementation schedule to reflect approved Summer or Winter Season compliance strategy if needed.	4 years after effective date of implementation plan
7	Summer Season WLAs apply (see Note 2).	5 years after effective date of implementation plan
8	Select major water reuse project for Winter Season TMDL compliance, and submit schedule and interim milestones.	1 year after effective date of implementation plan
9	Complete pre-design work and adopt CEQA determination for major water reuse project.	5 years after effective date of implementation plan
10	Complete design of major water reuse project.	7 years after effective date of implementation plan
11	Start construction of major water reuse project.	9 years after effective date of implementation plan
12	Complete construction of major water reuse project.	14 years after effective date of implementation plan
13	Winter WLAs apply (see Note 2).	15 years after effective date of implementation plan

Notes:

1. The implementation plan, numeric targets and/or WLAs may be revised if supported by research, watershed study or other changes in the watershed.

2. Interim limits for nitrogen and phosphorous will be set equal to those existing under Tapia's 2010 NPDES Permit pending completion of these TMDL actions.

DRAFT