

SAN JOSÉ/SANTA CLARA TREATMENT PLANT ADVISORY COMMITTEE

CHUCK REED, CHAIR
JOSE ESTEVES, MEMBER
PAT KOLSTAD, MEMBER
JAMIE MATTHEWS, MEMBER
MADISON NGUYEN, MEMBER

CHUCK PAGE, MEMBER
JOHN GATTO, MEMBER
JENNIFER MAGUIRE, MEMBER
KANSEN CHU, MEMBER

AGENDA/TPAC

4:30 p.m.

August 14, 2014

Room 1734

1. ROLL CALL

2. APPROVAL OF MINUTES

A. June 12, 2014

3. UNFINISHED BUSINESS/REQUEST FOR DEFERRALS

4. DIRECTOR'S REPORT (verbal)

- A. **Directors Verbal Report**
- Monthly Progress Report

5. AGREEMENTS/ACTION ITEMS

A. Execute A Purchase Order with Murphy Industrial Coatings, INC.

Staff Recommendation: Authorize the City Manager to:

1. Execute a Purchase Order with Murphy Industrial Coatings, Inc. (Signal Hill, CA) for the coating and rehabilitation of five clarifier tanks at the San José-Santa Clara Regional Wastewater Facility ("Plant") for the period July 1, 2014 through June 30, 2015, in an amount not to exceed \$638,513; and
2. Approve a 10% contingency for a not-to-exceed amount of \$63,851 to execute change orders for any unforeseen changes or requirements that may arise prior to the completion of services; and
3. Exercise up to four additional one-year options to renew the purchase order through June 30, 2019 to provide coating and rehabilitation services for additional clarifier tanks as required for scheduled maintenance, subject to the annual appropriation of funds.

The Execution of a purchase order with Murphy Industrial Coatings, Inc. is scheduled for Council consideration on August 19, 2014.

6. **OTHER BUSINESS/CORRESPONDENCE**

7. **STATUS OF ITEMS PREVIOUSLY RECOMMENDED FOR APPROVAL BY TPAC**

A. **Report on Bids and Award of Contract for the 7474 – RWF Street Treatment Phase III**

- a. Award the construction contract for the 7474 – RWF Street Treatment Phase III project at the San Jose-Santa Clara Regional Wastewater Facility to the lowest bidder, O’Grady Paving, Inc., in the amount of \$388,859.
- b. Approve a 10% contingency in the amount of \$39,000.

The Report on Bids and Award of Contract for the 7474 – RWF Street Treatment Phase III was approved by City Council on June 17, 2014.

B. **Report on Bids and Award of Contract for the 6833 – Filtration Building B2 and B3 Pipe and Valve Replacement**

- 1) Award of a construction contract for the Filtration Building B2 and B3 Pipe and Valve Replacement to the low bidder, Anderson Pacific Engineering Construction Inc., in the amount of \$158,900.
- 2) Approve a contingency in the amount of \$31,780.

The Report on Bids and Award of Contract for the 6833 – Filtration Building B2 and B3 Pipe and Valve Replacement was approved by City Council on June 17, 2014.

C. **Report on Bids and Award of Contract for 7394 – Emergency Diesel Generator Package 2A Project**

Report on bids and award of a construction contract for 7394 – Emergency Diesel Generator Package 2A Project to the lowest responsive bidder, Anderson Pacific Engineering Construction, Inc., for the base bid in the amount of \$15,310,000, and approval of a ten percent contingency in the amount of \$1,531,000

The Report on Bids and Award of Contract for 7394 – Emergency Diesel Generator Package 2A Project was approved by City Council on June 17, 2014.

D. **San Jose-Santa Clara Regional Wastewater Facility Technical Training Program Update**

Accept this status report on the development of a technical training program at the San Jose-Santa Clara Regional Wastewater Facility.

The San Jose-Santa Clara Regional Wastewater Facility Technical Training Program Update was approved by City Council on August 5, 2014.

- E. Progress Report on Burrowing Owl Habitat Improvements at the Regional Wastewater Facility

Accept this progress report highlighting habitat improvement activities for the Western Burrowing Owl on San Jose-Santa Clara Regional Wastewater Facility bufferlands that began in 2012.

The Progress Report on Burrowing Owl Habitat Improvements at the Regional Wastewater Facility was approved by City Council on August 5, 2014

- F. Status Report on the Sanitary Sewer Flow Study

Accept this status report on the Sanitary Sewer Flow Study.

The Status Report on the Sanitary Sewer Flow Study was approved by City Council on August 5, 2014.

- G. Status Report on Agreement with Telstar to Provide Temporary Staffing at the San Jose/Santa Clara Regional Wastewater Facility

Adopt a resolution to authorize the City Manager to exercise the second one-year option to extend the Agreement for August 17, 2014, through August 16, 2015 for a maximum compensation not to exceed \$998,000, and for the authority to exercise the two remaining one-year options to extend the Agreement through August 16, 2017, subject to the appropriation of funds.

The Status Report on Agreement with Telstar to Provide Temporary Staffing at the San Jose/Santa Clara Regional Wastewater Facility was approved by City Council on August 5, 2014.

8. REPORTS

- A. Open Purchase Orders Greater Than \$100,000 (including Service Orders)

The attached monthly Procurement and Contract Activity Report summarizes the purchase and contracting of goods with an estimated value between \$100,000 and \$1.08 million and of services between \$100,000 and \$270,000.

9. **MISCELLANEOUS**

- A. The next TPAC meeting is September 11, 2014, at 4:30 p.m. City Hall, Room 1734.

10. **OPEN FORUM**

11. **ADJOURNMENT**

NOTE: If you have any changes or questions, please contact Jennifer Hade, Environmental Services, (408) 975-2515.

To request an accommodation or alternative format for City-sponsored meetings, events or printed materials, please contact Jennifer Hade at (408) 975-2515 or (408) 294-9337 (TTY) as soon as possible, but at least three business days before the meeting/event.

Availability of Public Records. All public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at San Jose City Hall, 200 East Santa Clara Street, 10th Floor, Environmental Services at the same time that the public records are distributed or made available to the legislative body.

**MINUTES OF THE
SAN JOSE/SANTA CLARA
TREATMENT PLANT ADVISORY COMMITTEE**
City Hall, City Manager's Office, 17th Floor, Room 1734
Thursday, June 12, 2014 at 4:30 p.m.

1. ROLL CALL

Minutes of the Treatment Plant Advisory Committee convened this date at 4:30 p.m. Roll call was taken, with the following members in attendance:

Committee members: Committee Chair Chuck Reed, Committee Members, Jose Esteves, John Gatto, Jennifer Maguire, Jamie Matthews, Madison Nguyen and Chuck Page (arrived at 4:45)

Absent: Committee Members Kansen Chu, Pat Kolstad

2. APPROVAL OF MINUTES

- A. May 15, 2014
- Item 2.A was approved.**
- Ayes - 6**
- Nays - 0**
- Absent - 2**

3. UNFINISHED BUSINESS/REQUEST FOR DEFERRALS

4. DIRECTORS REPORT

- A. Directors Verbal Report:

Rene Eyerly, Sustainability and Compliance Manager, Environmental Services Department, spoke on a press release announcing that West Valley College, in partnership with the City of San Jose and the Santa Clara Valley Water District, had been awarded a \$6 million Bay Region Water Consortium Career Pathway Grant.

5. AGREEMENTS/ACTION ITEMS

- A. Report on Bids and Award of Contract for the 7474 – RWF Street Treatment Phase III

Staff Recommendation:

- a. Award the construction contract for the 7474 – RWF Street Treatment Phase III project at the San Jose-Santa Clara Regional Wastewater Facility to the lowest bidder, O’Grady Paving, Inc., in the amount of \$388,859.

- b. Approve a 10% contingency in the amount of \$39,000.

The Report on Bids and Award of Contract for the 7474 – RWF Street Treatment Phase III is scheduled for Council consideration on June 17, 2014.

Motion by Committee Member Matthews, second by Committee Member Nguyen to approve item 5.A.

Ayes - 6

Nays – 0

Absent - 2

- B. Report on Bids and Award of Contract for the 6833 – Filtration Building B2 and B3 Pipe and Valve Replacement

Staff Recommendation:

- 1) Award of a construction contract for the Filtration Building B2 and B3 Pipe and Valve Replacement to the low bidder, Anderson Pacific Engineering Construction Inc., in the amount of \$158,900.
- 2) Approve a contingency in the amount of \$31,780.

The Report on Bids and Award of Contract for the 6833 – Filtration Building B2 and B3 Pipe and Valve Replacement is scheduled for Council consideration on June 17, 2014.

Motion by Committee Member Gatto, second by Committee Member Matthews to approve item 5.B.

Ayes - 6

Nays – 0

Absent - 2

- C. Report on Bids and Award of Contract for 7394 – Emergency Diesel Generator Package 2A Project

Staff Recommendation: Report on bids and award of a construction contract for 7394 – Emergency Diesel Generator Package 2A Project to the lowest responsive bidder, Anderson Pacific Engineering Construction, Inc., for the base bid in the amount of \$15,310,000, and approval of a ten percent contingency in the amount of \$1,531,000

The Report on Bids and Award of Contract for 7394 – Emergency Diesel Generator Package 2A Project is scheduled for Council consideration on June 17, 2014.

Brian Jordan, Executive Vice-President from Helix Electric, Inc. spoke in protest of the award of contract to Anderson Pacific.

Motion by Committee Member Matthews, second by Committee Member Nguyen to approve item 5.C.

Ayes - 6

Nays – 0

Abstain - 1

Absent - 2

D. San Jose-Santa Clara Regional Wastewater Facility Technical Training Program Update

Staff Recommendation: Accept this status report on the development of a technical training program at the San Jose-Santa Clara Regional Wastewater Facility.

The San Jose-Santa Clara Regional Wastewater Facility Technical Training Program Update is scheduled for Council consideration on August 5, 2014.

Motion by Committee Member Matthews, second by Committee Member Nguyen to approve item 5.D.

Ayes - 7

Nays – 0

Absent - 2

E. Progress Report on Burrowing Owl Habitat Improvements at the Regional Wastewater Facility

Staff Recommendation: Accept this progress report highlighting habitat improvement activities for the Western Burrowing Owl on San Jose-Santa Clara Regional Wastewater Facility bufferlands that began in 2012.

The Progress Report on Burrowing Owl Habitat Improvements at the Regional Wastewater Facility is scheduled for Council consideration on August 5, 2014

Motion by Committee Member Matthews, second by Committee Member Page to approve item 5.E.

Ayes - 7

Nays – 0

Absent - 2

F. Status Report on the Sanitary Sewer Flow Study

Staff Recommendation: Accept this status report on the Sanitary Sewer Flow Study.

The Status Report on the Sanitary Sewer Flow Study is scheduled for Council consideration on August 5, 2014.

Motion by Committee Member Matthews, second by Committee Member Maguire to approve item 5.F.

Ayes - 7
Nays – 0
Absent - 2

G. Status Report on Agreement with Telstar to Provide Temporary Staffing at the San Jose-Santa Clara Regional Wastewater Facility

Staff Recommendation: Adopt a resolution to authorize the City Manager to exercise the second one-year option to extend the Agreement for August 17, 2014, through August 16, 2015 for a maximum compensation not to exceed \$998,000, and for the authority to exercise the two remaining one-year options to extend the Agreement through August 16, 2017, subject to the appropriation of funds.

The Status Report on Agreement with Telstar to Provide Temporary Staffing at the San Jose-Santa Clara Regional Wastewater Facility is scheduled for Council consideration on August 5, 2014.

Motion by Committee Member Matthews, second by Committee Member Gatto to approve items 5.G.

Ayes - 7
Nays – 0
Absent - 2

6. **OTHER BUSINESS/CORRESPONDENCE**

7. **STATUS OF ITEMS PREVIOUSLY RECOMMENDED FOR APPROVAL BY TPAC**

A. Report on Bids and Award of Contract for 7100 – Digester Gas Compressor Upgrade Project

- a) Report on bids and award of a construction contract for 7100 – Digester Gas Compressor Upgrade Project to the low bidder, Anderson Pacific Engineering and Construction, Inc., for the base bid in the amount of \$11,316,000, and approval of a ten percent contingency in the amount of \$1,131,600.
- b) Adopt the following 2013-2014 Appropriation Ordinance Amendments in the San Jose-Santa Clara Treatment Plant Capital Fund:
 - 1 Decrease the Energy Generation Improvements appropriation to the Environmental Services Department in the amount of \$5,200,000; and
 - 2 Increase the Combined Heat and Power Equipment Repair and Rehabilitation appropriation to the Environmental Services Department in the amount of \$5,200,000.

Report on Bids and Award of Contract for 7100 – Digester Gas Compressor Upgrade Project was approved by City Council on May 20, 2014.

B. Report on Bids and Award of Contract for the 7259 – Training Trailer Replacement Project

1. Award of a construction contract for the 7259 – Training Trailer Replacement to the low bidder, Newton Construction and Management, Inc., in the amount of \$513,874.
2. Approve a contingency in the amount of \$51,400.

The Report on Bids and Award of Contract for the 7259 - Training Trailer Replacement was approved by City Council on May 20, 2014.

C. Master Service Agreements with Environmental Science Associates, CH2M Hill Engineers, Inc. and David J. Powers & Associates, Inc. for Environmental Review and Permitting Services

Approve the master agreements between the City of San Jose and the following firms for environmental review and permitting services for the San Jose-Santa Clara Regional Wastewater Facility and various other City projects and programs for a term through June 30, 2019, subject to the appropriation of funds:

1. Environmental Science Associates in an amount not to exceed \$2,125,000;
2. CH2M Hill Engineers, Inc. in an amount not to exceed \$500,000; and
3. David J. Powers & Associates, Inc. in an amount not to exceed \$375,000.

The Master Service Agreements with Environmental Science Associates, CH2M Hill Engineers, Inc. and David J. Powers & Associates, Inc. for Environmental Review and Permitting Services were approved by City Council on May 20, 2014

D. San Jose/Santa Clara Water Pollution Control Plant 2015-2019 Proposed Capital Improvement Program

TPAC approval of the San Jose/Santa Clara Water Pollution Control Plant 2015-2019 Proposed Capital Improvement Program

The San Jose/Santa Clara Water Pollution Control Plant 2015-2019 Proposed Capital Improvement Program was heard by the San Jose City Council on June 10, 2014, and is scheduled for City Council adoption on June 17, 2014

E. San Jose/Santa Clara Water Pollution Control Plant 2014-2015 Proposed Operating and Maintenance Budget

TPAC approval of the San Jose/Santa Clara Water Pollution Control Plant 2014-2015 Proposed Operating and Maintenance Budget

The San Jose/Santa Clara Water Pollution Control Plant 2014-2015 Proposed Operating and Maintenance Budget was heard by the San Jose City Council on June 10, 2014, and is scheduled for City Council adoption on June 17, 2014

8. REPORTS

A. Open Purchase Orders Greater Than \$100,000 (including Service Orders)

The attached monthly Procurement and Contract Activity Report summarizes the purchase and contracting of goods with an estimated value between \$100,000 and \$1.08 million and of services between \$100,000 and \$270,000.

Item 8.A was approved to note and file.

9. MISCELLANEOUS

A. The next TPAC meeting is August 14, 2014, at 4:30 p.m. City Hall, 1734

10. PUBLIC COMMENT

Yolanda Lewis, Public, spoke on including public input in the design process for the new Biosolids facility and encouraged staff to look at other available technologies.

11. ADJOURNMENT

A. The Treatment Plant Advisory Committee adjourned at 5:13 p.m.

Chuck Reed, Chair
Treatment Plant Advisory Committee



Memorandum

TO: TREATMENT PLANT ADVISORY
COMMITTEE

FROM: Kerrie Romanow

SUBJECT: SEE BELOW

DATE: August 5, 2014

**SUBJECT: SAN JOSE-SANTA CLARA REGIONAL WASTEWATER FACILITY
CAPITAL IMPROVEMENT PROGRAM MONTHLY STATUS REPORT
FOR JUNE 2014**

This report provides a summary of the progress and accomplishments of the Capital Improvement Program for the San José-Santa Clara Regional Wastewater Facility for the period of June 2014.

/s/

KERRIE ROMANOW

Director, Environmental Services

For questions, please contact Ashwini Kankar, Assistant Director of Environmental Services, at (408) 975-2553.

Attachment: June 2014 Monthly Status Report for the Capital Improvement Program for the San José-Santa Clara Regional Wastewater Facility





Capital Improvement Program Monthly Status Report for June 2014

August 7, 2014

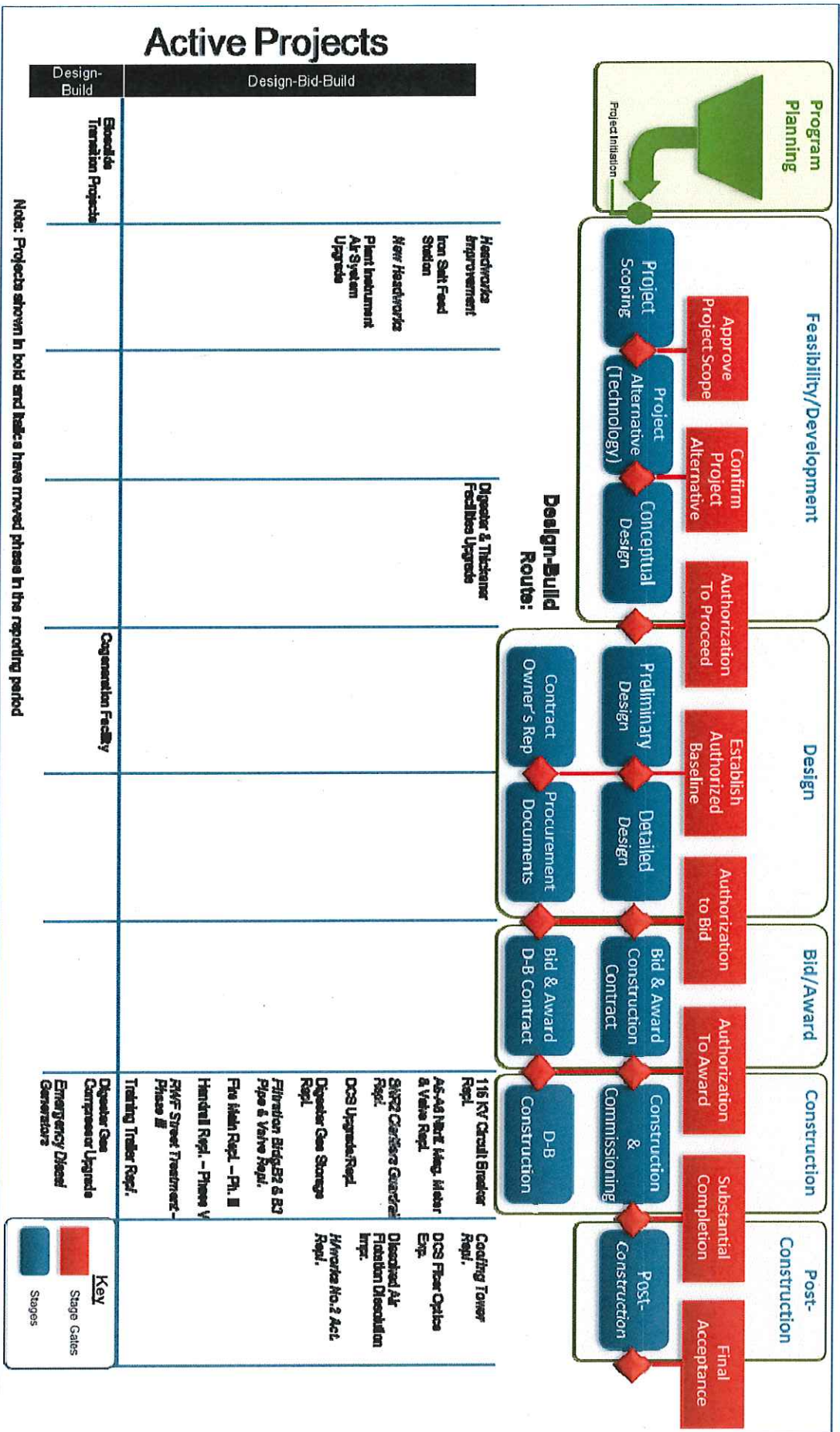
This report provides a summary of the progress and accomplishments of the Capital Improvement Program (CIP) for the San José-Santa Clara Regional Wastewater Facility ("Wastewater Facility") for the period of June 2014.

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Project Delivery Model



Program Summary

June 2014

In 2008 the Wastewater Facility undertook a Plant Master Plan (PMP) effort which ultimately resulted in its adoption in November 2013. The Project Validation process held between October 2013 and January 2014 reviewed the projects identified in the Plant Master Plan in order to develop a five-year and ten-year CIP. This monthly report provides a summary of the progress and accomplishments of the CIP for the month of June 2014 within Fiscal Year 2013-2014.

In the month of June the focus was on moving forward with the initial stages of a number of projects, including headworks and biosolids. We also further developed several program tools, including a design guidelines library and quality management plan. We rolled out a training site on our CIP Portal (our web-based SharePoint platform, see below) to further support staff's use of our Program Execution Plan (PEP) and Project Delivery Model (PDM). On June 3rd, we held a workshop with CIP project managers and O&M lead staff to further define our project collaboration. On June 4th, we rolled out a new Delivery Organization Chart for the CIP Program. These charts show the CIP organization for Project Delivery. On June 17th, Council adopted the FY14-15 Capital Budget and the 2015-2019 CIP. On June 25th, we held a critical workshop to review business case evaluations related to biosolids transition. On June 30th, we held our first of six Asset Management workshops to develop an implementation plan for that important effort. Finally, we continued driving implementation of our program tools and processes on all existing projects, recruiting new staff to fulfill our future resource needs for the CIP Program, and developing the next fiscal year service orders for the program work.

We presented updates at regular meetings to the Technical Advisory Committee (TAC) on June 9th and the Treatment Plant Advisory Committee (TPAC) on June 12th.

Look Ahead

In July, we will initiate a number of projects scheduled for FY14-15. We will also further develop our cost estimating protocols, and continue to reinforce the use of our processes and tools. In addition, we will continue to implement the Stage Gate process. Recruiting will also continue at a fast pace to fill existing vacancies.

Program Highlight – The CIP Portal

With a team as diverse as ours, covering such a wide range of topics, it is imperative that we have a web-based tool for sharing information. We have used SharePoint, Microsoft's collaboration software, to build an extensive team collaboration website, which we call the CIP Portal. The CIP Portal supports all aspects of our team's efforts, ranging from project-specific documents to broad program items. It contains an interactive version of our PDM (see inside of front cover of this document), along with a complete electronic copy of our PEP, the handbook for delivering our program. We have training tools (including videos), a decision log, and templates for all key documents. It truly serves as a "one stop shop" to help our program team members efficiently deliver the CIP program.

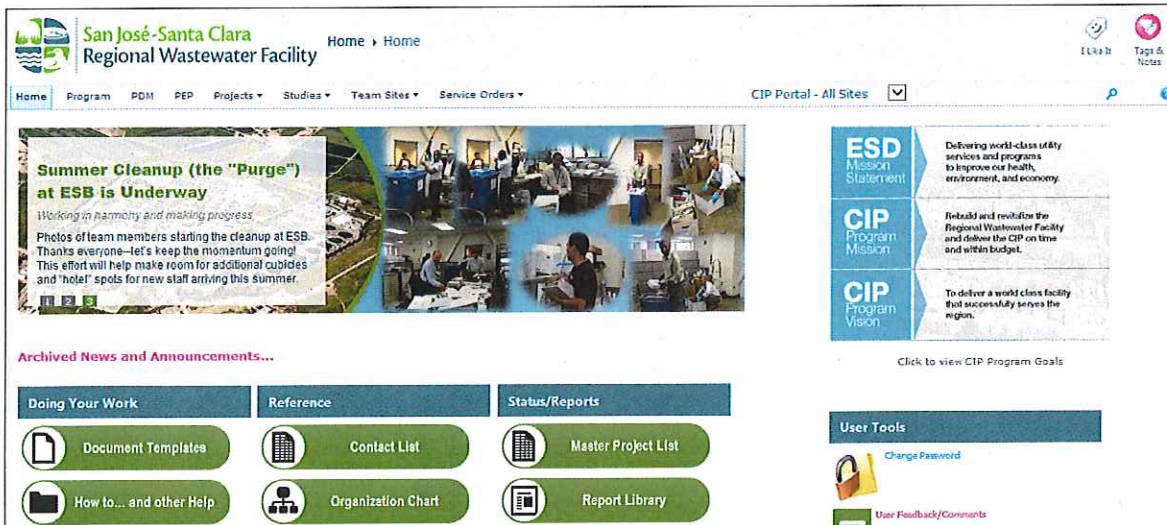














Figure 1—CIP Portal Home Page



Program Performance Summary

Seven KPIs have been established to measure the overall success of the CIP. Each KPI represents a metric which will be monitored on a regular frequency. Through the life of the CIP, KPIs will be selected and measured which best reflect the current maturity of the program. In this report, six of the seven KPIs have measurement data available and are reported below. The target for the "Staff Count" KPI will be established as part of the analysis of future staffing needs.

Program Key Performance Indicators – Fiscal Year 2013-2014

KPI Description	Target	Actual	Status	Trend	Measurement
Schedule ¹	85%	67% (2/3)			Percentage of CIP projects delivered within 2 months of approved baseline Beneficial Use Milestone. Target: 85% of projects delivered within 2 months of approved baseline schedule or better.
Budget	90%	100% (2/2)			Percentage of CIP projects that are completed within the approved baseline budget. Target: 90% of projects total expenditures do not exceed 101% of the baseline budget.
Expenditure ²	≥\$72.7M	\$89.9M			Total CIP actual + forecast committed cost for the fiscal year compared to CIP fiscal year budget. Target: Forecast committed cost meets or exceeds 50% of budget for Fiscal Year 13/14 (\$145.4 / 2 = \$72.7M)
Procurement ³	100%	92.7% (11/12)			Number of actual + forecast consultant and contractor procurements compared to planned for the fiscal year. Target: Forecast /actual procurements for fiscal year meet or exceed planned.
Safety	0	0			Number of OSHA reportable incidents associated with CIP construction for the fiscal year. Target: zero incidents.
Environment/Permits	0	0			Number of permit violations caused by CIP construction for the fiscal year. Target: zero violations.
Staff Count ⁴	TBD	TBD	TBD	TBD	Number of additional staff started in the previous quarter compared to planned (City/Consultant). Target: Number of City and Consultant Staff joined the program team for the quarter meets or exceeds planned.

KEY:

Cost:  Meets or exceeds KPI target  Does not meet KPI target

Notes

1. For the Schedule KPI, the number of delivered projects increased from 2 to 3, this count now includes Distributed Control System (DCS) Fiber Optics Network Expansion, which reached Beneficial Use as of May 2014.
2. Expenditure went down by \$0.7M due to Training Trailer not being encumbered in 13-14.
3. For the Procurement KPI, the design-build legal services RFQ is now expected to be awarded in September 2014.
4. Staff count KPI measured quarterly; all other KPIs measured monthly.

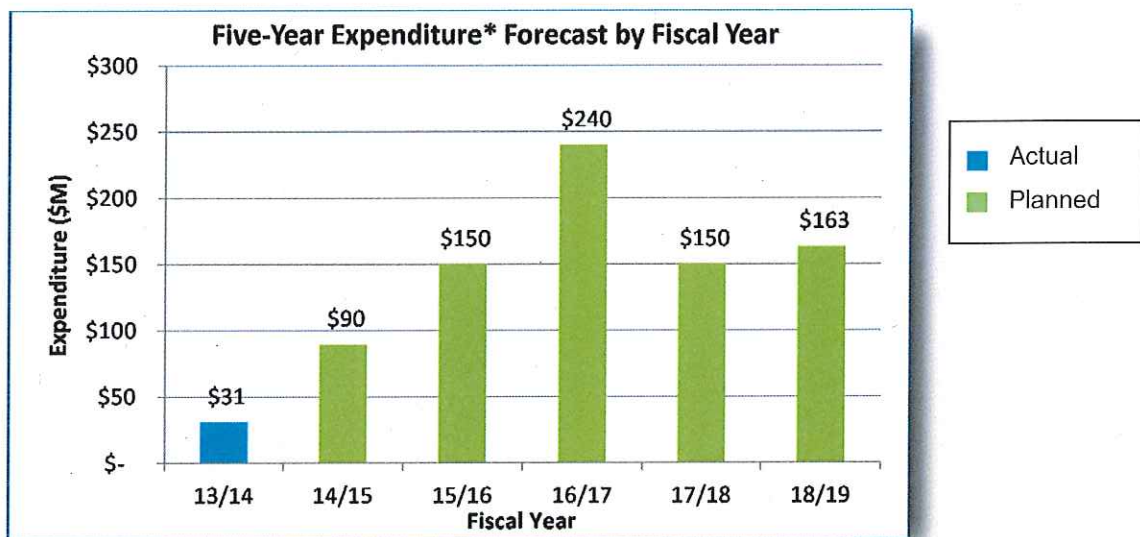


Program Cost Performance

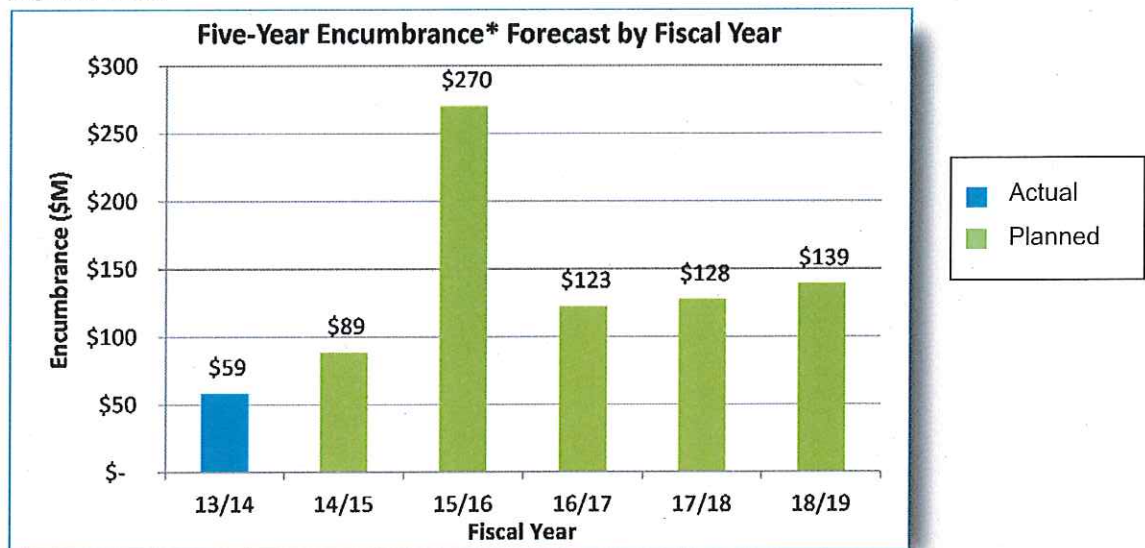
This section provides a summary of CIP cost performance for all construction projects and non-construction activities for FY13-14 and the Five-Year CIP.

Proposed 2015-2019 CIP Expenditure and Encumbrances

To accommodate the proposed increase in expenditures and encumbrances over the next five years, the City is developing a long-term financial strategy to fund the needed, major capital improvements while minimizing the impact to ratepayers. The City held special study sessions with TAC and TPAC in April to discuss the ten-year funding strategy and the financing plan.



*Expenditure defined as: Actual cost expended associated with services and construction of physical asset



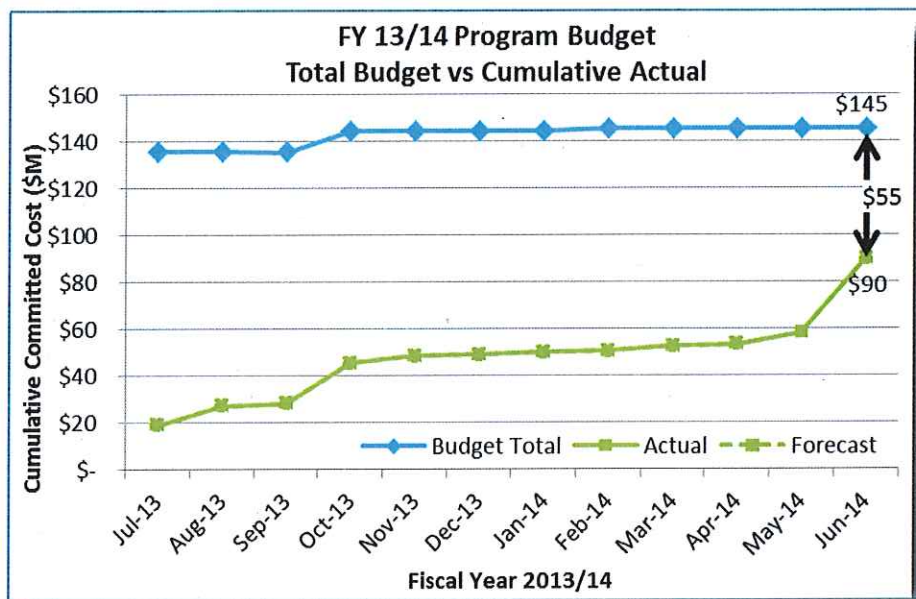
*Encumbrance defined as: Financial commitments, such as purchase orders or contracts, which are chargeable to an appropriation and for which a portion of the appropriation is reserved



Fiscal Year 2013-2014 Program Budget Performance

The fiscal year began with an initial program budget of \$135 million, with a \$9 million adjustment in October and a \$1 million adjustment in February, for a total program budget of \$145 million. The budget amount of \$145 million represents the 2013-2014 budget of \$193 million plus carryover of \$17 million, less reserves of \$5 million and ending fund balance of \$60 million. Committed costs are expenditures and encumbrance balances, including carryover (encumbrance balances from the previous fiscal year). As of the close of the June reporting period, \$90 million in committed cost was achieved. This represents approximately 62% of the total program budget for FY13-14.

Committed costs reached the forecasted amount of \$90 million by the end of the fiscal year resulting in a year-end variance of approximately \$55 million as shown in the chart below. The last fiscal quarter saw a number of large construction contract awards including Digester Gas Storage Replacement, Fire Main Replacement – Phase III, Digester Gas Compressor, and Emergency Diesel Generators.































The projected year-end variance increased from \$54 million to \$55 million due to bids coming in slightly lower than the engineer's estimates.



Project Performance

There are currently fourteen active projects in the construction or post-construction phase with a further four projects in feasibility/development, design or bid and award phases (see PDM graphic at the front of this report). All active projects are listed in the table below. Projects in the construction phase have cost and schedule baselines established and are monitored using the City's Capital Project Management System (CPMS). These projects have green/red icons included in the table below to indicate whether they are on budget and schedule using the CPMS data as a source.

Project Name	Phase	Estimated Beneficial Use Date ¹	Cost Performance ²	Schedule Performance ²
Baselined Projects				
Dissolved Air Flotation (DAF) Dissolution Improvement	Post-Construction	Apr 2014		
Distributed Control System (DCS) Fiber Optics Network Expansion	Post-Construction	May 2014		
115KV Circuit Breaker Replacement	Construction	Aug 2014		
A5-A6 Nitrification Mag. Meter & Valve Replacement	Construction	Jul 2014		
BNR-2 Clarifier Guardrail Replacement	Construction	Dec 2014		
DCS Upgrade/Replacement	Construction	Jun 2016		
Digester Gas Compressor Upgrade	Construction	Jul 2016 ³		
Digester Gas Storage Replacement	Construction	Jun 2015		
Emergency Diesel Generators	Construction	Aug 2016 ³		
Filtration Building B2 & B3 Pipe & Valve Replacement	Construction	Apr 2015 ³		
Fire Main Replacement - Phase III	Construction	Apr 2015		
Handrail Replacement - Phase V	Construction	Mar 2015		
RWF Street Rehabilitation - Phase III	Construction	Jan 2015 ³		
Training Trailer Replacement	Construction	May 2015		
Pre-Baseline Projects				
Cogeneration Facility	Design	Mar 2017	N/A	N/A
Digester & Thickener Facilities Upgrade	Feasibility/Development	Feb 2018	N/A	N/A
Headworks Improvement	Feasibility/Development	Nov 2017	N/A	N/A
Iron Salt Feed Station	Feasibility/Development	Apr 2016	N/A	N/A
New Headworks	Feasibility/Development	Nov 2017	N/A	N/A
Plant Instrument Air System Upgrade	Feasibility/Development	Dec 2015	N/A	N/A

KEY:

Cost:	 On Budget	 >1% Over Budget
Schedule:	 On Schedule	 >2 months delay

Notes

- Beneficial Use is defined as when the work is sufficiently complete, in accordance with the contract documents, so that the City can occupy or use the work.
- An explanation of cost and schedule variances on specific projects identified in this table is provided on the next page.
- Beneficial Use date pending confirmation of Contractor's schedule



Significant Accomplishments

On June 17, the Emergency Diesel Generators, Filtration Building B2 and B3 Pipe and Valve Replacement, and RWF Street Rehabilitation – Phase III projects were awarded. For the fiscal year, the CIP team successfully awarded all eight planned construction contracts, totaling over \$31 million in work.

Explanation of Project Performance Issues

DAF Dissolution Improvement

This project involved the replacement of pipe sections, check valves, and knife gate valves, and the installation of new electric actuators to automate valve operations for the dissolved air flotation process in the Wastewater Facility's Sludge Control Building. One of the new valves required an extended shutdown period and repeated installation attempts. In existing facilities, it is not uncommon for new equipment to present fit and alignment challenges as was encountered in this case. In addition, the installation of the local control panel required a longer than expected submittal review period. These issues resulted in minor cost and schedule impacts (3% above target budget and 3 months beyond target schedule).

In April, the project achieved beneficial use. The contractor's work is essentially complete, with the exception of a local control panel connection and outstanding punch list items. In-house staff is expected to finish the remaining electrical work and staff anticipates project acceptance in August.



Project Profile

Iron Salt Feed Station

The Bay Area Air Quality Management District's (BAAQMD) airborne limit for hydrogen sulfide (H_2S) in digester gas is 350 parts per million, total sulfur. While the Wastewater Facility often remains within this limit, there are periods throughout the year, typically in the warmer summer months, when this limit cannot be met without chemical additions, such as ferric chloride ($FeCl_3$) and anionic polymer.

This project constructs a ferric chloride dosing station at the Emergency Basin Overflow Structure (EBOS) and polymer dosing station at the East Primary Junction Box (EPJB), as shown in Figure 2 below. $FeCl_3$, in the form of iron salts, removes dissolved H_2S by chemically reacting to form iron sulfide, which can settle out during the primary treatment process. Anionic polymer increases the settleability of primary sludge by binding smaller particles together, effectively increasing the capacity of the primary clarifiers.

The addition of iron salts and polymer to incoming wastewater will also improve operations by reducing corrosion and odor, reducing energy usage in the secondary treatment system, and increasing feedstock to digesters, which will increase biogas production.

Between 2009 and 2012, Wastewater Facility staff conducted a series of bench-scale and full-scale trials using ferric chloride and polymer. These trials helped staff determine the dosing requirements for these two chemicals, and form the basis for the design of the new feed stations.

CH2M Hill began design in May and the project is anticipated to award in August 2015. Project Budget: \$5,290,000.

Project Location:

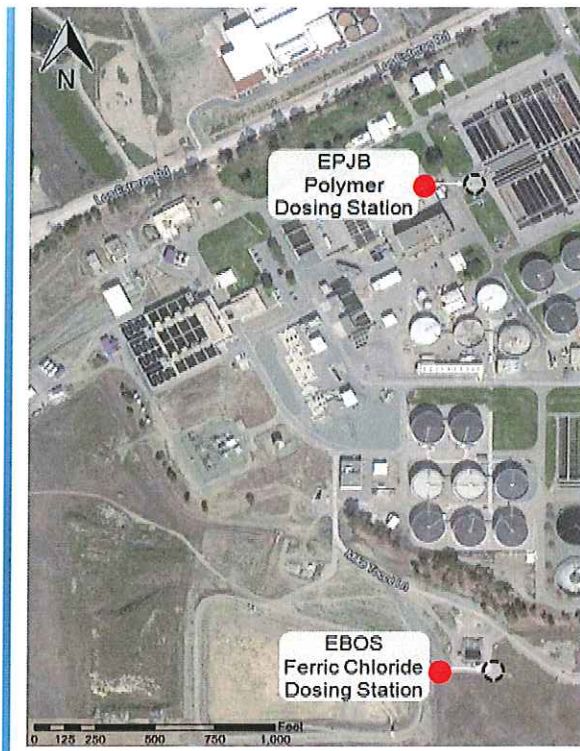


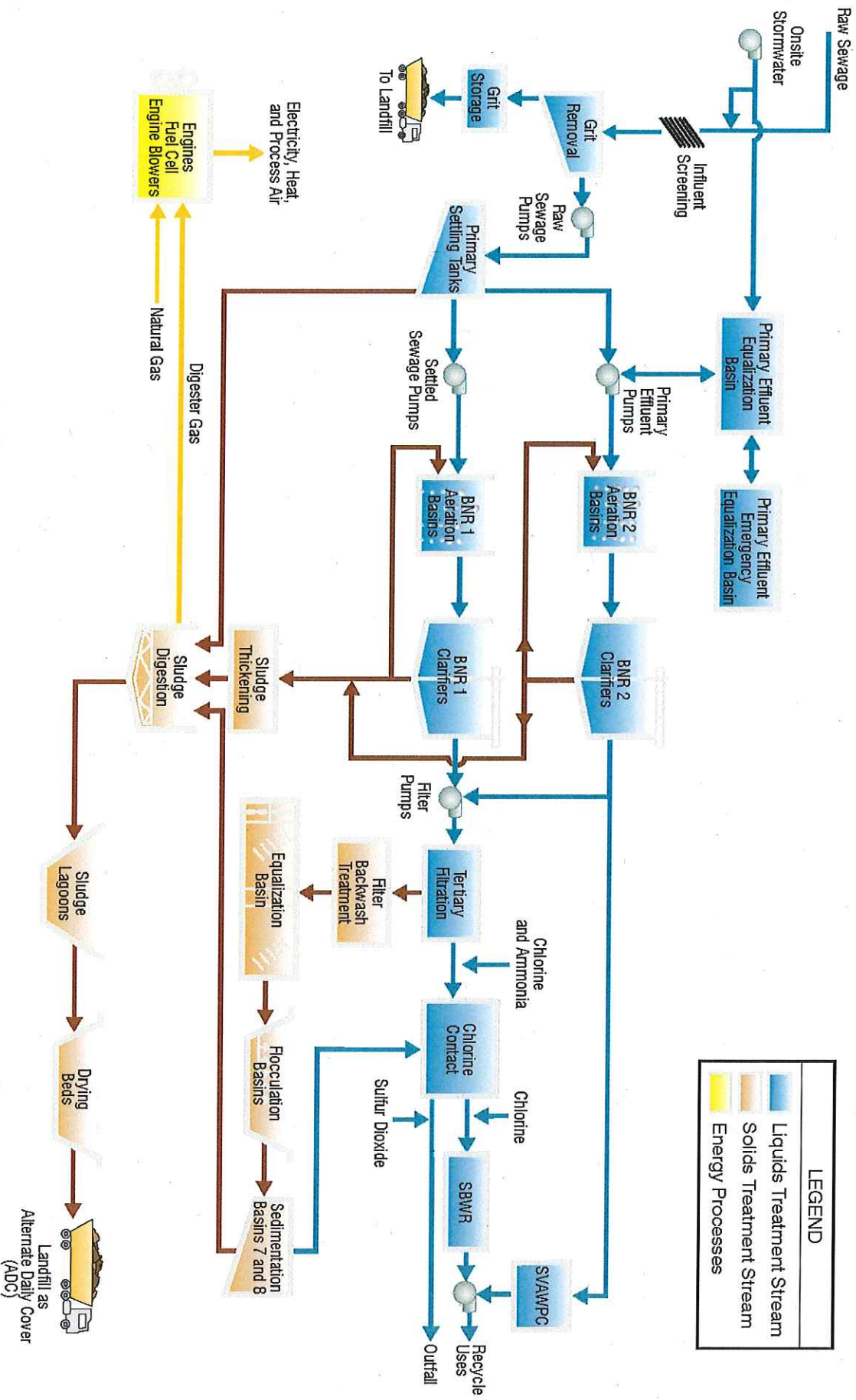
Figure 2—Iron Salt Feed Station



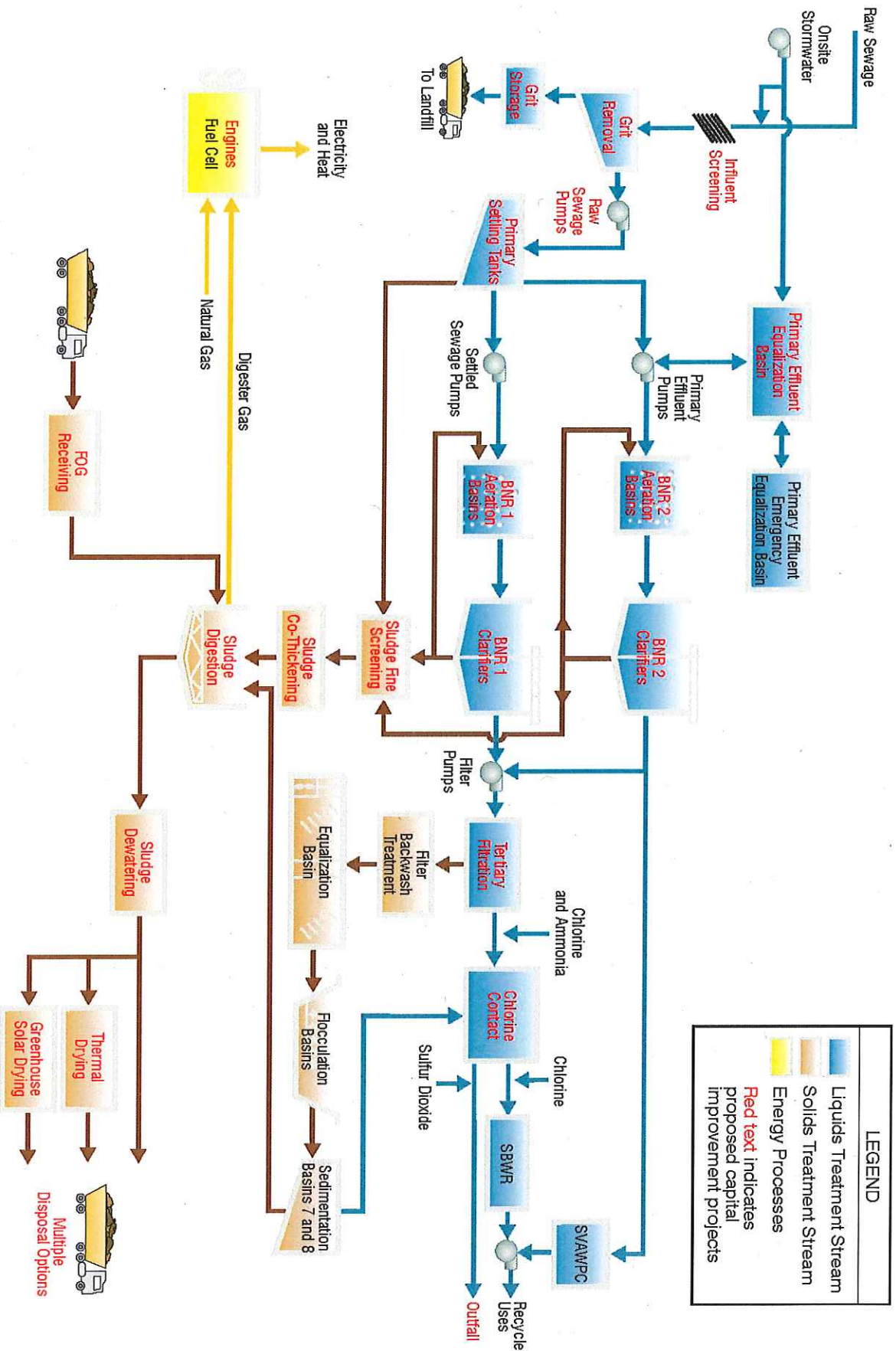
Figure 3— Example of a ferric chloride feed station similar in size to what is needed at the RWF. This installation is at Orange County Sanitation District's Plant No. 1, which treats an average flow of 96 mgd.



Regional Wastewater Facility Treatment – Current Treatment Process Flow Diagram



Regional Wastewater Facility Treatment – Proposed Treatment Process Flow Diagram

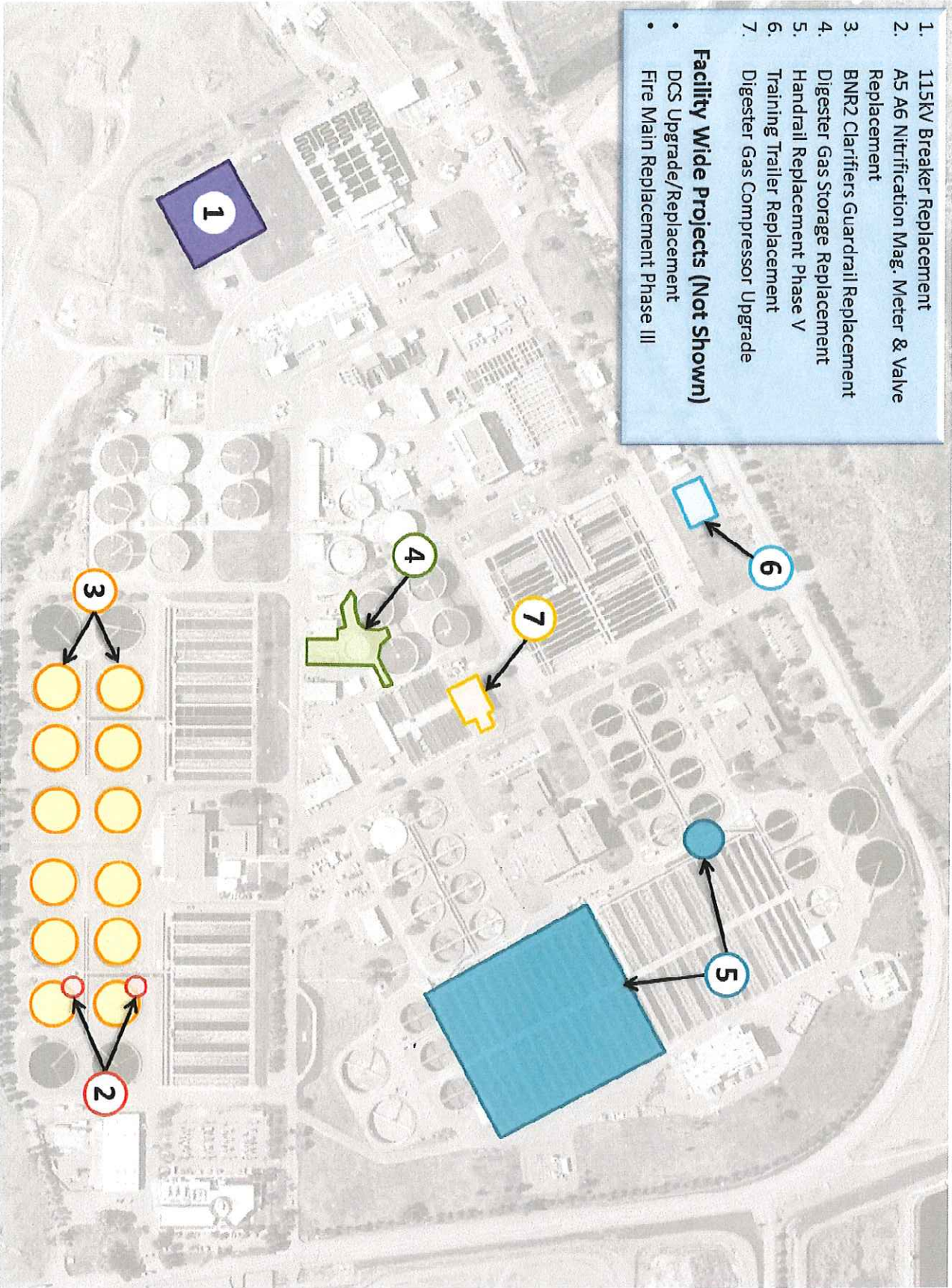


Active Construction Projects – Aerial Plan

1. 115KV Breaker Replacement
2. A5 A6 Nitritification Mag. Meter & Valve Replacement
3. BNR2 Clarifiers Guardrail Replacement
4. Digester Gas Storage Replacement
5. Handrail Replacement Phase V
6. Training Trailer Replacement
7. Digester Gas Compressor Upgrade

Facility Wide Projects (Not Shown)

- DCS Upgrade/Replacement
- Fire Main Replacement Phase III





CITY COUNCIL ACTION REQUEST

Department(s): Finance	CEQA: Not a Project, File No. PP10-066(a), Agreements and Contracts	Coordination: ESD, CAO, CMO - Budget Office. On August 14, 2014, the Treatment Plant Advisory Committee is scheduled to consider this item.	Dept. Approval: /s/ Julia H. Cooper
Council District(s): Citywide			CMO Approval:

SUBJECT: EXECUTE A PURCHASE ORDER WITH MURPHY INDUSTRIAL COATINGS, INC.

RECOMMENDATION:

Authorize the City Manager to:

1. Execute a Purchase Order with Murphy Industrial Coatings, Inc. (Signal Hill, CA) for the coating and rehabilitation of five clarifier tanks at the San José-Santa Clara Regional Wastewater Facility ("Plant") for the period July 1, 2014 through June 30, 2015, in an amount not to exceed \$638,513;
2. Approve a 10% contingency for a not-to-exceed amount of \$63,851 to execute change orders for any unforeseen changes or requirements that may arise prior to the completion of services; and
3. Exercise up to four additional one-year options to renew the purchase order through June 30, 2019 to provide coating and rehabilitation services for additional clarifier tanks as required for scheduled maintenance, subject to the annual appropriation of funds.

Desired Outcome: Increase the life expectancy of the metal components within the clarifier tanks, thereby increasing the useful life of the tanks.

BASIS FOR RECOMMENDATION:

Clarifier tanks are an essential part of the Plant operations, and are used to separate biomass solids from the processed liquids, leaving clean water for use in the recycled water service district. There are a total of forty-two Clarifier tanks at the Plant. As part of ongoing maintenance at the facility, it is required that these tanks be rehabilitated and painted on a ten year cycle.

On April 29, 2014, the Finance Department released a Request for Bid (RFB) for the rehabilitation of five clarifier tanks at the Plant. A total of sixty-six companies viewed the RFB; thirteen companies attended the mandatory pre-bid conference/site visit at the Plant, and seven bids were received by the May 29, 2014 deadline. Murphy Industrial Coatings, Inc. submitted the lowest bid for the initial five tanks, as well as option pricing for additional tanks. No protests were received during the protest period which ended on June 9, 2014.

Office of Equality Assurance: Living Wage or Prevailing Wage, whichever is higher, is applicable to work under this purchase order.

This Council item is consistent with Council approved Budget Strategy General Principle #2: "We must focus on protecting our vital core City services for both the short and long-term".

COST AND FUNDING SOURCE:

Fund #	Appn #	Appn. Name	Total Appn.	Amt. for Recommendation	2014-2015 Proposed Operating Budget Page	Last Budget Action (Date, Ord. No)
513	0762	ESD Non-Personal/Equipment Appropriation	\$31,337,798	\$702,364	XI-81	06/17/14 Ord. No. 29431

FOR QUESTIONS CONTACT: Mark Giovannetti, Deputy Director of Finance at 408-535-7052

City Manager's Contract Approval Summary
For Procurement and Contract Activity between \$100,000 and \$1.08 Million for Goods and \$100,000 and \$270,000 for Services

JUNE 1, 2014 - JULY 31, 2014

Description of Contract Activity ¹	Fiscal Year	Req#/ RFP#	PO#	Vendor/Consultant	Original \$ Amount	Start Date	End Date	Additional \$ Amount	Total \$ Amount	Comments
NEW:										
FERRIC CHLORIDE	FY14-15	18912	49709	KEMIRA WATER	\$900,000	7/1/14	6/30/15			
AQUEOUS AMMONIA	FY14-15	18969			\$162,000					
ANAEROBIC DIGESTER CLEANING	FY14-15	18971	49704	PIPE AND PLANT SOLUTIONS INC	\$250,000	7/1/14	6/30/15			
SODIUM BISULFITE	FY14-15	18976	50276	UNIVAR USA INC	\$560,000	7/1/14	6/30/15			
LIQUID SODIUM HYPOCHLORITE 12.5%	FY14-15	18977	50277	UNIVAR USA INC	\$995,000	7/1/14	6/30/15			
UNION 76 MOTOR OILS	FY14-15	18995	49830	PACIFIC COAST PETROLEUM INC	\$240,000	7/1/14	6/30/15			
HARDWARE FOR DCS AND VFD	FY14-15	18996	50286	ABB INC	\$750,000	7/1/14	6/30/15			
BLDG MAINTENANCE MATERIALS & SUPPLIES	FY14-15	18997	50154	GRAINGER, W W	\$400,000	7/1/14	6/30/15			
MECHANICAL MAINTENANCE SERVICES	FY14-15	18998	50165	D W NICHOLSON	\$270,000	7/1/14	6/30/15			
REPAIR OF ARTESIAN SLOUGH LEVEE	FY14-15	19027	49752	RJ GORDON CONSTRUCTION INC	\$130,000	7/1/14	6/30/15			
REPAIR FOR NITRIFICATION CLARIFIERS	FY14-15	19039	50143	TUCKER CONSTRUCTION	\$300,000	7/1/14	6/30/15			
PRODUCT: DIFFUSER MEMBRANE REPLACEMENT	FY13-14	19047	77751	ENVIRONMENTAL DYNAMICS INC	\$114,396	6/4/14	12/31/14			
WATER TOXICITY TESTING	FY14-15	19092			\$200,000					
ENTERPRISE & COOPER ENGINE PARTS	FY14-15	19281	49953	BRUNNER ENTERPRISES INC	\$100,000	7/1/14	6/30/15			
TRACTOR - RENTAL WITH OPTION TO PURCHASE	FY13-14	19412	77677	FECON, INC	\$110,000	5/17/14	8/31/14			
MAINTENANCE OF FIRE ALARM CONTROL	FY14-15	19633	50221	WESTERN STATES FIRE PROTECTION	\$270,000	7/1/14	6/30/15			
COATING REHABILITATION SERVICES OF FIVE (5) CLARIFIER TANKS	FY14-15	19692	50349	MURPHY INDUSTRIAL COATINGS INC	\$250,000	7/1/14	6/30/15			\$250K INITIAL, \$550K ADDITIONAL UPON COUNCIL APPROVAL, TOTAL \$800K; PREVIOUS REQ# 18673 FY13-14 CANCELLED
TO LEASE A USED 4-WIDE TRAILER FOR CIP CONSTRUCTION MANAGEMENT STAFF/CONSULTANTS	FY14-15	19725			\$200,000					PREVIOUS REQ 19434 FY13-14 CANCELLED
ASSISTANT ENV INSPECTOR TEMPS (6)	FY14-15	19757	50420	TRENDTEC INC	\$191,000	7/1/14	12/31/14			
PRODUCT: TRAVELING WATER SCREEN	FY14-15	19795			\$115,122					
PROFESSIONAL ENGINEERING SERVICES FOR IMPROVEMENT PROJECTS	FY13-14		AC28081	HYDROSCIENCE ENGINEERS, INC	\$356,853	6/30/14	ON OR BEFORE 365 BUSINESS DAYS FROM NTP			SERVICE ORDER #1, TASK 1-13 (MASTER AGREEMENT TERM 2/25/14 - 2/28/15; OPT TO EXT UP TO THREE ADDNL ONE-YEAR TERMS, NTE \$500K INITIAL TERM AND \$500K EACH OPT PERIOD FOR A TOTAL COLLECTIVE NTE OF \$2M)
ONGOING:										
TRACTOR - JLG G12-55A TELEHANDLER	FY13-14	18919	77856	H&E EQUIPMENT	\$183,947	6/30/14	6/29/15			MAINTENANCE - TELESCOPIC ALL TERRAIN FORKLIFT

¹ This report captures in process contract activity (Requisition Number or RFP Number) and completed contract activity (Purchase Order Number, Contract Term, and Contract Amount)