

PUBLIC UTILITIES REVENUE BOND OVERSIGHT COMMITTEE CITY AND COUNTY OF SAN FRANCISCO AGENDA

Public Utilities Commission Building 525 Golden Gate Ave., 4th Floor San Joaquin Conference Room San Francisco, CA 94102

March 7, 2016 - 9:00 AM

Regular Meeting

Purpose: The purpose of the RBOC is to monitor the expenditure of revenue bond proceeds related to the repair, replacement, upgrading, and expansion of the City's water collection, power generation, water distribution, and wastewater treatment facilities.

Mission: The goal of the RBOC is to make certain public dollars are spent according to authorization and applicable laws. Its purpose is to facilitate transparency and accountability in connection with the expenditure of revenue bond proceeds. The General Public is invited and welcomed to attend RBOC meetings and to provide input.

1. Call to Order and Roll Call

- Seat 1 Holly Kaufman (Holdover status)
- Seat 2 Kevin Cheng, Co-Chair (Holdover status)
- Seat 3 Vacant
- Seat 4 Marina Pelosi (Holdover status)
- Seat 5 Vacant
- Seat 6 Christina Tang, Vice Chair
- Seat 7 Joshua Low, Co-Chair

2. Agenda Changes

- 3. **Public Comment:** Members of the public may address the Revenue Bond Oversight Committee (RBOC) on matters that are within the RBOC's jurisdiction but are not on today's agenda.
- 4. Follow Up: Strategic Planning Session (Discussion)
- 5. **Updates to Mission Statement** (Discussion)
- 6. **RBOC Member Vacancies** (Discussion)
- 7. **Adoption of 2016 Calendar** (Discussion and Action)

- 8. **RBOC Strategic Planning Preparations** (Discussion)
- 9. **San Francisco Public Utilities Commission (SFPUC) Staff Report:** Sewer System Improvement Program (SSIP) Update, Re-baselining, Accurancy of Estimates and Program Comprehensiveness (*Discussion*)
- 10. **San Francisco Public Utilities Commission (SFPUC) Staff Report:** Water System Improvement Program (WSIP) Update, ; briefing on project cost management; lessons learned from WISP, especially any from design build experience, Calaveras Dam update (*Discussion*)
- 11. **San Francisco Public Utilities Commission (SFPUC) Staff Report:** Bond Sale Updates and Refunding *(Discussion)*
- 12. Announcements, Comments, Questions, and Future Agenda Items
- 13. **Adjournment**

Agenda Item Information

Each item on the agenda may include: 1) Department or Agency cover letter and/or report; 2) Public correspondence; 3) Other explanatory documents. For more information concerning agendas, minutes, and meeting information, such as these documents, please contact RBOC Clerk, City Hall, 1 Dr. Carlton B. Goodlett Place, Room 244, San Francisco, CA 94102 – (415) 554-5184.

Audio recordings of the meeting of the Revenue Bond Oversight Committee are available at: http://sanfrancisco.granicus.com/ViewPublisher.php?view_id=97

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翻譯 必須在會議前最少四十八小時提出要求 請電 (415) 554-7719

Know Your Rights Under the Sunshine Ordinance

Government's duty is to serve the public, reaching its decisions in full view of the public. Commissions, boards, councils, and other agencies of the City and County exist to conduct the people's business. This ordinance assures that deliberations are conducted before the people and that City operations are open to the people's review.

For more information on your rights under the Sunshine Ordinance (San Francisco Administrative Code, Chapter 67) or to report a violation of the ordinance, contact by mail: Sunshine Ordinance Task Force, 1 Dr. Carlton B. Goodlett Place, Room 244, San Francisco, CA 94102; phone at (415) 554-7724; fax at (415) 554-7854; or by email at sotf@sfgov.org.

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PUBLIC UTILITIES REVENUE BOND OVERSIGHT COMMITTEE CITY AND COUNTY OF SAN FRANCISCO MINUTES - DRAFT

Public Utilities Commission Building 525 Golden Gate Ave., 2nd Floor Yosemite Conference Room San Francisco, CA 94102

February 8, 2016 - 9:00 AM

Regular Meeting

Purpose: The purpose of the RBOC is to monitor the expenditure of revenue bond proceeds related to the repair, replacement, upgrading, and expansion of the City's water collection, power generation, water distribution, and wastewater treatment facilities.

Mission: The goal of the RBOC is to make certain public dollars are spent according to authorization and applicable laws. Its purpose is to facilitate transparency and accountability in connection with the expenditure of revenue bond proceeds. The General Public is invited and welcomed to attend RBOC meetings and to provide input.

1. Call to Order and Roll Call

- Seat 1 Holly Kaufman (Holdover status)
- Seat 2 Kevin Cheng, Co-Chair (Holdover status)
- Seat 3 Vacant
- Seat 4 Marina Pelosi (Holdover status)
- Seat 5 Vacant
- Seat 6 Christina Tang, Vice Chair
- Seat 7 Joshua Low, Co-Chair

Chair Kevin Cheng called the meeting to order at 9:17 a.m. On the call of the roll, Members Kaufman, Cheng, Pelosi, Tang, and Low were noted present. There was a quorum.

2. Agenda Changes

There were no agenda changes.

Public Comment: Members of the public may address the Revenue Bond Oversight Committee (RBOC) on matters that are within the RBOC's jurisdiction but are not on today's agenda.

Public Comment: Speakers: Dari Barzel, Treasury Manager (East Bay Municipal Utility

District); Amara Mien Kaufman; made introductions and spoke on various concerns relating to the hearing matter.

3. Strategic Planning Session

Member Cheng introduced strategic planning facilitator Carmen Clark, who briefly discussed her background and meeting purpose. Discussion then focused on the meeting purpose: reviewing the legislative history and mission of RBOC, discussing strategic issues/directions for the committee, and developing a preliminary work plan for CY2016.

Mark Blake, Deputy City Attorney, presented a legislative history and provided the context for establishment of the committee. Charles Perl, Deputy Chief Financial Officer, and Mike Brown (SFPUC); provided a summary of their backgrounds and responded to questions raised throughout the discussion.

Public Comment: Heard in Committee. Speaker: Carmen Clark facilitated the strategic planning session, presented and documented information concerning the matter, and responded to questions raised throughout the discussion. Dari Barzel; spoke on various concerns relating to the hearing matter.

The Committee discussed the following items that require follow up:

- 1. Letter to City Services Auditor regarding whistleblower cases and interface.
- 2. Follow up conversation on municipal finance committee
- 3. Follow up with appointing authorities for terms
- 4. Follow up with all term limits, holdover status, including history of appointees
- 5. Transmittal of Annual Report to Mayor, Board of Supervisors, and PUC CAC
- 6. Mission statement updates (March meeting)
- 7. Schedule for City Service Auditor and other staff presentations
- 8. Potential RBOC audits
- 9. Capital Planning Programs presentation at April 11th meeting
- 10. Staff report on authorization of RBOC-related legislation
- 11. Annual Report 2016 preparation
- 12. Lessons Learned on Mountain Tunnel
- 13. Requesting presentation material from staff ahead of meetings

The Committee recessed from 10:45 a.m. to 11:00 a.m., and again from 11:30 a.m. to 12:10 p.m., then continued discussion.

Member Pelosi was noted absent at 11:28 a.m. and again present at 12:15 p.m. for the remainder of the meeting.

4. Adjournment

There being no further business, the meeting adjourned at 2:49 p.m.

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SUMMARY NOTES

San Francisco Public Utilities Commission Revenue Bond Oversight Committee 2016 Strategic Planning Meeting

February 8, 2016

Attendees: Kevin Chang, Co-Chair

Joshua Low, Co-Chair

Holly Kaufman Marina Pelosi Christina Tang

Dari Barzel, Applicant for Committee appointment

Derek Evans, Assistant Clerk, SFBOS Mark Blake, Deputy City Attorney Mike Brown, SFPUC Finance staff

<u>Discussion of Committee Mission</u>

After a summary of the background legislation and purpose of the RBOC given by Mark Blake, the Committee members discussed and redrafted the mission statement as follows:

The purpose of the RBOC is to monitor the expenditure of revenue bond proceeds related to the repair, replacement, upgrade and expansion of the SFPUC's water, power and sewer infrastructure. The RBOC's goal is to ensure that SFPUC revenue bond proceeds are spent appropriately and according to authorization and applicable laws. The RBOC provides oversight to ensure transparency and accountability in connection with expenditure of the proceeds. The public is invited to attend RBOC meetings and provide input.

Members agreed to review the draft and plan to adopt a final revision at their next meeting.

<u>Improvement of Committee Operations</u>

After the discussion and redrafting above, Committee members agreed that they are clear on the mission of the Committee. They then discussed the strategic issues facing the group for the next 12-18 months. These issues and possible actions are summarized below:

1) The Committee needs a study of program comprehensiveness. There is a need to find out if the scope of the capital program is responsive to issues of recycling,

- climate change, flooding. What other capital program components are mission critical and how does the Committee ensure that they are not omitted?
- 2) There is a need to stress test the overall budget, especially with the impact on the ability to pay off bonds due to current revenue decline.
- 3) How to best incorporate WISP lessons learned into sewer program? Should staff continue the annual peer review established for WISP or is it better to continue with independent audit? Request staff to provide the top 10 recommendations and what the results are of those that have been accepted and implemented. Need to coordinate and get recommendations from City Auditor and coordinate with their work plans.
- 4) The members agreed that a separate strategy session focused on the above 3 issues should be scheduled very soon.
- 5) Find a way to get staff time committed to implementation of the Committee's work plan
- Consider bringing back subcommittees to improve ability to drill down into a topic.
- 7) Decide early if Committee wants a site visit/tour of facilities; Derek will request and coordinate.
- 8) Request staff to provide copies of the presentation materials prior to the RBOC meeting, preferably in the agenda packet.

Preliminary 2016 Calendar Items

Committee members drafted the preliminary work plan (Attachment 1).

Performance Metrics

Members discussed ways that they and the public would know that they were accomplishing the mission. Some of those discussed are listed below:

- 1) Member attendance
- 2) Member full participation/contribution of ideas, recommendations, solutions
- 3) Measure not only inputs (audits), but outputs (what difference/value added did it make that the Committee was doing its job?)
- 4) Transparency
- 5) Accountability
- 6) Level and type of monitoring activity
- 7) Efficiency

Attachment 1

Preliminary 2016 RBOC Work Plan

<u>March</u>

- 1) Adopt 2016 Calendar
- 2) Briefing on Project Cost Management; lessons learned from WISP, especially any from design build experience
- 3) Bond sale updates/refunding
- 4) Staff presentation for re-baseline of wastewater program; accuracy of estimates and program comprehensiveness
- 5) Calaveras Dam presentation

<u>April</u>

- 1) Staff report on capital planning
- 2) Staff report on WISP financial audit findings
- 3) Presentation on legal compliance with bond requirements

<u>May</u>

- 1) Review of stress test for WISP re-baseline
- 2) Identify studies that RBOC will initiate
- 3) Water update staff report
- 4) Mountain Tunnel presentation

June

- 1) Wastewater staff report
- 2) Investigations/studies placeholder
- 3) Peer review program for wastewater what is the plan?
- 4) Workshop on RBOC scorecard metrics for measuring committee performance
- 5) Project cost management update from March briefing

July

- 1) Power update staff report
- 2) Follow-up to Mountain Tunnel and Calaveras Dam project issues

August

1) Half day field trip/site visit – location TBD

<u>September</u>

- 1) Water update
- 2) Wastewater update

<u>October</u>

1) Draft Annual Report

November

1) Next strategic planning session

December

1) Adoption of final Annual Report

Note: Schedule briefings on legislation before the BOS that affects RBOC on ad hoc/ as needed basis

MISSION;

THE PURPOSE OF THE RBOC IS TO MONITOR THE EXPENDITURE OF REVENUE BOND PROCEEDS RELATED TO THE REPAIR, REPLACEMENT, UPGRAPE & EXPANSION OF THE CITY'S WATER COMETTON, DISTRIBUTTON & TREATMENT, AND POWER GENERATION. THE RBOX'S GOAL IS TO ENSURE THAT SPPUC REVENUE BOND PROCEEDS ARE SPENT APPROPRIATELY, ACCORDING TO AUTHORIZATION AND APPLICABLE LAWS. THE RBOC PROVIDES CHESISTA TO FACH ENSURE TRANSPARENCY & ACCOUNTABILITY IN CONNECTION WITH EXPENDITURE OF REVENUE BOND DROCKEDS. THE PUBLIC IS WELCOME TO ATTEND RECE MES & PROVIDE INDUT.

Parking Lot Pucquest) D Whistle blower interface 2) Residency requirements (naivers Ruise Mission Statement isto ensure ThatArevenue bond Proceeds".. are spent = efficiently Weltones and encourages Public involvement & INDUT Agendator next mtg to revise Ask Staff to pregive presentation make a Friday prior to my. - make trigger packet

Work Plan Suggested item Legal compliance w/ bond Top presentation - Trea Wastewate Bond sale updates (Mu)3) Refunding bonds REXTERED TERESTATION FOR THE BOARDS (APR) 5) Capital Plansing - Staff report Apr 6) Financial Audit WSIP wisting

Presentation from start-Circlings RBOC andit if needed

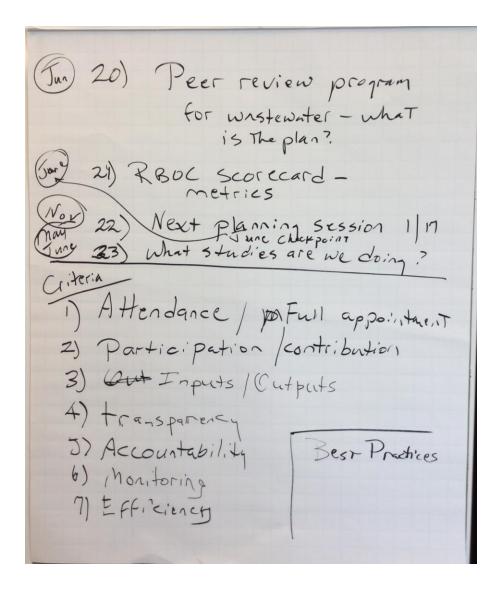
Annual report ETA 12/16 alaveras Dan presentation on time performance Mountain Tunnel presentation originally budget why not the dorse now Testing new baseline? Mar 10) Re-baseline for HZEWastewater - Whether all projects are climates captured within baselie - Accurage of estimates All projects serve needs of SIE

Revision 1. E. Flooding 8,9+

The Stress test For it # 10 - + orders

The stand bulket revel of testing - RDC decides If further and ysis needed

(me) 2) Project Cost Mgt. -5 Progress on design build WISP for wastewater-including any design build (Aug) 13) Hart day Field trips (Mar) 14) Calendar - Agendas May 15) Water update - Start report (June 16) Wastemater - staff report (July 17) Power update - Starr report (Sept) 12 Water updates Westernatus youtes June-July 19) Investigations / Studies placeholder





Services of the San Francisco Public Utilities Commission

Sewer System Improvement Program (SSIP) Update – Baseline Scope, Schedule, and Budget for Phase 1 Projects

March 7, 2016
Karen Kubick, PE – SSIP, Program Director
Dan Donahue, PE – SSIP, Pre-Construction Technical Advisor



Program Update

- Three years since Commission endorsement
- Significant progress in program planning and project development

This has resulted in:

- Better definition of project scopes
- Refinement of costs
- Updated project schedules



Commission-Endorsed Program Goals August 28, 2012



Provide a Compliant, Reliable, Resilient, and Flexible
 System that Respond to Catastrophic Events



Integrate Green & Grey Infrastructure to
 Manage Stormwater and Minimize Flooding



Provide Benefits to Impacted Communities



- Modify the System to Adapt to Climate Change
 - New infrastructure must accommodate expected sea level rise within the service life of the asset (i.e. 16 inches by 2050, 25 inches by 2070, 55 inches by 2100) (i.e., 6 inches by 2030, 11 inches by 2050, 36 inches by 2100) and be consistent with the City's Guidance for Incorporating Sea Level Rise into Capital Planning.



Establishing a Baseline









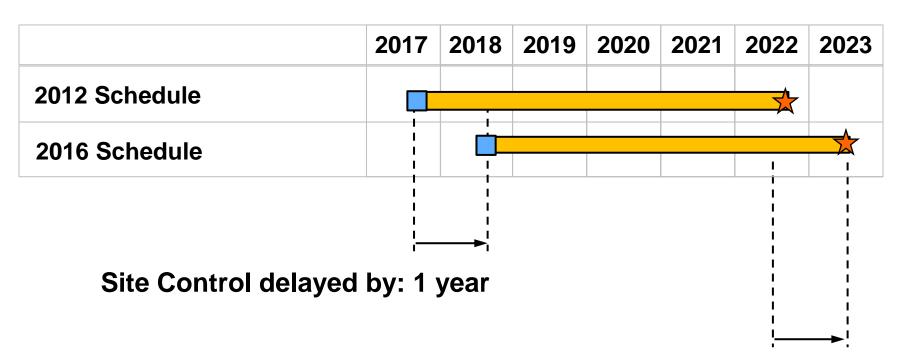
Prioritization & Refinement Process

- Prioritization of project scopes and cost
 - Priority 1: must remain
 - Priority 2: eliminate or defer with acceptable risk
 - Priority 3: eliminate or defer without risk
- Refinement of Projects
 - Receiving water model results
 - Central Bayside Improvement Project tunnel resizing
- Definition of Collection System Projects
 - Interdepartmental
 - Flooding
- Schedule Impacts



Schedule Update SEP Biosolids Digester Facilities Project

Site Control
Construction Phase



End of Substantial Completion delayed by: 1 year



Phase 1: 2012 Commission-Endorsed

Planning through Construction (\$M)

•	New Biosolids Digester Facilities	1,596
•	SEP Grit and Odor Control Upgrades	272
•	North Shore and Westside Pump Station Upgrades	256
•	Combined Sewer Discharge Structure Refurbishments	84
•	Green Infrastructure - Early Implementation Projects	57
•	Collection System Pump Stations/Odor Control	110
PI	anning through Preliminary Design (\$M)	
•	Treatment Plant Process Upgrades	58
•	Treatment Seismic and Structural Upgrades	51
•	Central Bayside System Improvement Project	70
•	Citywide Green Infrastructure Projects	6
•	Collection System Operational Improvements	27
Pr	ogram Management (\$M)	125

2,712



Phase 1: 2016 Update

Planning through Construction (\$M)		
New Biosolids Digester Facilities	1,596	1,622
SEP Grit and Odor Control Upgrades	272	438 👚
 North Shore and Westside Pump Station Upgrades 	256	199 👢
 Combined Sewer Discharge Structure Refurbishments 	84	27 👢
• Green Infrastructure – Early Implementation Projects	57	59 🕇
Collection System Pump Stations/Odor Control	110	104 👢
Planning through Preliminary Design (\$M)		
Treatment Plant Process Upgrades	58	6 👢
Treatment Seismic and Structural Upgrades	51	16 👢
Central Bayside System Improvement Project	70	64 👢
Citywide Green Infrastructure Projects	6	24 👚
Collection System Operational Improvements	27	12 👢
Program Management (\$M)	125	125
	2,712	2,696



Phase 2: 2012 Commission-Endorsed

Design & Construction (\$M)

•	Demolition of Ex. Digesters & Southside Renovation	371
•	SEP Wet Weather Primary Treatment Replacement	250
•	OSP Grit/Process Upgrades	70
•	NPF Odor/Process Upgrades	195
•	Seismic and Structural Upgrades	329
•	Central Bayside System Improvement Project	1,224
•	Citywide Green Infrastructure Projects	105
•	Westside Pump Station Expansion	290
•	Pump Station Upgrades	188
•	Combined Sewer Discharge Structure Refurbishment	121

Program Management (\$M)

152

3,295



Water Power Sewer Phase 2: 2016 Update

D	esign & Construction (\$M)		
•	Demolition of Ex. Digesters & Southside Renovation	371	371
•	SEP Wet Weather Primary Treatment Replacement	250	283 🕇
•	OSP Grit/Process Upgrades	70	82 👚
•	NPF Odor/Process Upgrades	195	197
•	Seismic and Structural Upgrades	329	341 🕇
•	Central Bayside System Improvement Project	1,224	782
•	Citywide Green Infrastructure Projects	105	180 🛊
•	Westside Pump Station Expansion	290	51 ↓
•	Pump Station Upgrades	188	188
•	Combined Sewer Discharge Structure Refurbishment	121	138 🕇
•	Sewer Improvements	0	131 🕇
Pr	ogram Management (\$M)	152	152
		3,295	2,896



Phase 3: 2012 Commission-Endorsed

Design & Construction (\$M)

P	rogram Management (\$M)	43
•	Combined Sewer Discharge Structure Refurbishment	120
•	Pump Station Upgrades	188
•	Citywide Green Infrastructure Projects	168
•	Treatment Seismic and Structural Upgrades	212
•	Oceanside & NPF Treatment Plant Refurbishments	195

926



Phase 3: 2016 Update

Design & Construction (\$M)

•	Oceanside & NPF Treatment Plant Refurbishments	195	195
•	Treatment Seismic and Structural Upgrades	212	212
•	Citywide Green Infrastructure Projects	168	168
•	Pump Station Upgrades	188	188
•	Combined Sewer Discharge Structure Refurbishment	120	120
P	rogram Management (\$M)	43	43

926 926

No changes in 2016 update



Commission-Endorsed Budget August 28, 2012

Subprograms	Phase 1 (\$M)	Phase 2 (\$M)	Phase 3 (\$M)	Total Cost (\$M)
Treatment Plants	2,233	1,215	407	3,855
Biosolids Digester Facilities Project	1,596	371	-	1,967
Southeast Plant (SEP) Improvements	340	357	103	800
Oceanside Plant (OSP) Improvements	183	177	104	464
North Point Facility (NPF) Improvements	114	310	200	624
Collection System	354	1,928	476	2,758
Reliability and Operational Improvements	221	309	308	838
Stormwater Management	63	169	168	400
Central Bayside Improvement Project (CBSIP)	70	1,173	0	1,243
Westside Pump Station Expansion	0	277	0	277
Program Management	125	152	43	320
Total SSIP	2,712	3,295	926	6,933



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Subprograms	Phase 1 (\$M)	Phase 2 (\$M)	Phase 3 (\$M)	Total Cost (\$M)
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Water Power Sewer 2012 and 2016 Budget Comparison

2012 Commission-Endorsed Budget	Phase 1 (\$M)	Phase 2 (\$M)	Phase 3 (\$M)	Total Cost (\$M)
Treatment Plants	2,233	1,215	407	3,855
Collection System	354	1,928	476	2,758
Program Management	125	152	43	320
Total SSIP	2,712	3,295	926	6,933

2016 Revised Baseline Budget	Phase 1 (\$M)	Phase 2 (\$M)	Phase 3 (\$M)	Total Cost (\$M)
Treatment Plants	2,280	1,299	407	3,986
Collection System	291	1,445	476	2,212
Program Management	125	152	43	320
Total SSIP	2,696	2,896	926	6,518



2016 Revised Baseline Budget

Subprograms	Phase 1 (\$M)	Phase 2 (\$M)	Phase 3 (\$M)	Total Cost (\$M)
Treatment Plants	2,280	1,299	407	3,986
Biosolids Digester Facilities Project	1,622	371	-	1,993
Southeast Plant (SEP) Improvements	438	387	103	928
Oceanside Plant (OSP) Improvements	133	214	104	451
North Point Facility (NPF) Improvements	87	327	200	614
Collection System	291	1,445	476	2,212
Reliability and Operational Improvements	131	483	308	922
Stormwater Management	96	180	168	444
Central Bayside Improvement Project (CBSIP)	64	782	-	846
Westside Pump Station Expansion	-	-	-	-
Program Management	125	152	43	320
Total SSIP	2,696	2,896	926	6,518



2016 Revised Baseline Budget

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Stormwater Management	96	180	168	444
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Westside Pump Station Expansion	-	-	-	-
Program Management	125	152	43	320
Total SSIP	2,696	2,896	926	6,518



Biosolids Digester Facilities Project

- Biosolids Project
- Land Reuse (1800/1801 Jerrold)
- DCS Upgrades
- Digester Repairs
- Power Feed Upgrades
- Seismic Reliability
- Oxygen Generation

SEP Improvements

- Primary Sludge Handling
- Primary & Secondary Clarifier
- 521/522 & Disinfection
- New Headworks



Biosolids Digester Facilities Project

- Biosolids Project
- Land Reuse (1800/1801 Jerrold)
- DCS Upgrades
- Digester Repairs
- Power Feed Upgrades
- Seismic Reliability
- Oxygen Generation

Land Reuse

SEP Improvements

- Primary Sludge Handling
- Primary & Secondary Clarifier
- 521/522 & Disinfection
- New Headworks



Biosolids Digester Facilities Project

- Biosolids Project
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SEP New Headworks



Biosolids Digester Facilities Project

Biosolids Project

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- Seismic Reliability
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Land Reuse

SEP New Headworks

Subprograms	Phase 1 (\$M)	Phase 2 (\$M)	Phase 3 (\$M)	Total Cost (\$M)
Treatment Plants	2,182	1,299	407	3,888
Biosolids Digester Facilities Project	1,276	47	-	1,323
SEP New Headworks	359	-	-	359
SEP Improvements	327	711	103	1,141
OSP Improvements	133	214	104	451
NPF Improvements	87	327	200	614
Collection System	291	1,445	476	2,212
Reliability and Operational Improvements	131	483	308	922
Stormwater Management	96	180	168	444
CBSIP	64	782	-	846
Westside Pump Station	-	-	-	-
Land Reuse	98	-	-	98
Program Management	125	152	43	320
Subtotal SSIP	2,696	2,896	926	6,518

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Collection System	291	1,445	476	2,212
CBSIP	64	782	-	846
Interceptors/Tunnels/Odor Control	58	131	-	189
Pump Stations and Force Main Improvements	46	214	188	448
CSD & TS Boxes	27	138	120	285
Stormwater Management	96	180	168	444
Land Reuse	98	-	-	98
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Phase 1 Additional Projects

North Shore Force Main	\$30M
Interdepartmental Projects	\$96M
Van Ness BRT Sewer Improvements	\$15M
Better Market Street Sewer Improvements	\$32M
Geary BRT Sewer Improvements	\$17M
Geary BRT Sewer Improvements Phase 2	\$2M
Central Subway Sewer Improvements	\$4M
Mission Bay Loop Sewer Improvements	\$2M
Masonic Avenue Sewer Improvements	\$4M
Taraval Sewer Improvements	\$20M
Flood Resilience Projects	\$88M
Flood Resilience Planning and Project Development	\$9M
Wawona St/15th Ave Stormwater Detention	\$23M
Cayuga Ave Stormwater Detention	\$8M
Folsom Area Stormwater Management	\$36M
17 th /Folsom Permanent Barriers	\$3M
Hydraulic Drainage Improvements	\$9M

\$214M

Phase 1 SSIP + Additional Projects =

\$2,910M



Phase 2 Additional Projects

In	terdepartmental Projects	\$44 M
•	Geary BRT Sewer Improvements Phase 2	\$16M
•	Future Mission Street Sewer Improvements	\$26M
•	Taraval Sewer Improvements	\$2M
F	lood Resilience Projects	\$219M

\$263M

Phase 2 SSIP + Additional Projects = \$3,159M



Water Power Sewer 2016 Revised Baseline

Subprograms	Phase 1 (\$M)	Phase 2 (\$M)	Phase 3 (\$M)	Total Cost (\$M)
Treatment Plants	2,182	1,299	407	3,888
Biosolids Digester Facilities Project	1,276	47	-	1,323
SEP New Headworks	359	-	-	359
SEP Improvements	327	711	103	1,141
OSP Improvements	133	214	104	451
NPF Improvements	87	327	200	614
Collection System	291	1,445	476	2,212
CBSIP	64	782	-	846
Interceptors/Tunnels/Odor Control	58	131	-	189
Pump Stations and Force Main Improvements	46	214	188	448
CSD & TS Boxes	27	138	120	285
Stormwater Management	96	180	168	444
Land Reuse	98	-	-	98
Program Management	125	152	43	320
Subtotal SSIP	2,696	2,896	926	6,518
North Shore Force Main	30	-	-	30
Interdepartmental Projects	96	44	-	140
Flood Resilience Projects	88	219	-	307
Total SSIP + Additional Projects	2,910	3,159	926	6,995



2016 SSIP Revised Baseline

Subprograms	Phase 1 (\$M)	Phase 2 (\$M)	Phase 3 (\$M)	Total Cost (\$M)
Treatment Plants	2,182	1,299	407	3,888
Biosolids Digester Facilities Project	1,276	47	-	1,323
SEP New Headworks	359	-	-	359
SEP Improvements	327	711	103	1,141
OSP Improvements	133	214	104	451
NPF Improvements	87	327	200	614
Collection System	505	1,708	476	2,689
CBSIP	64	782	_	846
Interceptors/Tunnels/Odor Control	58	131	_	189
Interdepartmental Projects	96	44	_	140
Pump Stations and Force Main Improvements	76	214	188	478
CSD & TS Boxes	27	138	120	285
Stormwater Management	96	180	168	444
Flood Resilience	88	219	-	307
Land Reuse	98	-	-	98
Program Management	125	152	43	320
Total SSIP	2,910	3,159	926	6,995