

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

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

Co-Chairs Kevin Cheng and Joshua Low called the meeting to order at 9:09 a.m. On the call of the roll, Members Cheng, Pelosi, Tang, and Low were noted present. Member Kaufman was noted absent. There was a quorum.

2. **Agenda Changes**

There were no 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.

Public Comment: Speakers: Kevin Vega; Michele Nuñez; and Julian Blake; introduced themselves to the Committee.

Items 4 through 6 were called and heard together.

4. Follow Up: Strategic Planning Session

Public Comment: Speakers: There were none.

5. Updates to Mission Statement

Public Comment: Speakers: There were none.

6. **RBOC Member Vacancies**

Public Comment: Speakers: There were none.

The foregoing items were called and heard together, and by unanimous consent the Committee elected to continue the items to the April 11, 2016, regular meeting.

7. Adoption of 2016 Calendar

Public Comment: Speakers: Carmen Clark; provided a brief description of a follow-up document that she provided to the Committee.

By unanimous consent, the Committee adopted the work calendar as a work in progress; it will be included with the agenda for future meetings and will be adapted by the Committee as needed.

8. RBOC Strategic Planning Preparations

Christina Anderson, Audit Manager (SFPUC); provided a summary of an upcoming presentation on audits to be given at the April 11, 2016, regular meeting, and responded to questions raised throughout the discussion.

Public Comment: Speakers: There were none.

9. **San Francisco Public Utilities Commission (SFPUC) Staff Report:** Sewer System Improvement Program (SSIP) Update, Re-baselining, Accuracy of Estimates and Program Comprehensiveness

Karen Kubick, Sewer System Improvement Program Director, and Dan Donahue, Sewer System Improvement Program Pre-construction Technical Advisor (SFPUC); presented an update of the SSIP, re-baselining, accuracy of estimates and program comprehensiveness, and responded to questions raised throughout the hearing. A SSIP report will be released in June. Mike Brown; and Sheena Johnson, System Improvement Program Administrator (SFPUC); provided information and responded to questions raised throughout the hearing.

Public Comment: Speakers: There were none.

The Committee recessed from 10:00 a.m. until 10:04 a.m.

10. **San Francisco Public Utilities Commission (SFPUC) Staff Report:** Water System Improvement Program (WSIP) Update; briefing on project cost management; lessons learned from WSIP, especially any from design build experience, Calaveras Dam update

Dan Wade, Water System Improvement Program Director (SFPUC); presented an update of the WSIP, project cost management, lessons learned, and an update on the Calaveras Dam, and responded to questions raised throughout the hearing. The Committee discussed a possible site visit to the Calaveras Dam in July or August. Member Low voiced interest in the application of lessons learned enterprise wide; Dan Wade responded that teams currently bring specific lessons learned and that information is disseminated to other departments for future projects. Mark Blake, Deputy City Attorney; Richard Morales, Debt Manager, and Mike Brown (SFPUC); provided information and responded to questions raised throughout the hearing.

Public Comment: Speakers: There were none.

11. **San Francisco Public Utilities Commission (SFPUC) Staff Report:** Bond Sale Updates and Refunding

Richard Morales, Debt Manager, and Mike Brown (SFPUC); provided information on upcoming bond sales and refunding, including upcoming pre-authorization request to the Board of Supervisors for refunding wastewater bonds, and a new bond sale at he end of the year; and answered questions raised throughout the hearing.

Public Comment: Speakers: There were none.

12. Announcements, Comments, Questions, and Future Agenda Items

Next SSIP presentation to the RBOC should include information on a stress-tested baseline and how lessons learned (e.g., Calaveras Dam) could be applied to SSIP, and will be followed by the Bond Finance presentation.

Public Comment: Speakers: There were none.

13. Adjournment

There being no further business, the meeting adjourned at 11:10 a.m.

N.B. The Minutes of this meeting set forth all actions taken by the Revenue Bond Oversight Committee on the matters stated but not necessarily in the chronological sequence in which the matters were taken up.

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

For information concerning San Francisco Public Utilities Commission please contact by e-mail RBOC@sfgov.org or by calling (415) 554-5184.

Meeting Procedures

Public Comment will be taken before or during the Committee's consideration of each agenda item. Speakers may address the Committee for up to three minutes on that item. During General Public Comment, members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on the agenda.

Procedures do not permit: 1) persons in the audience to vocally express support or opposition to statements by Commissioners by other persons testifying; 2) ringing and use of cell phones, pagers, and similar sound-producing electronic devices; 3) bringing in or displaying signs in the meeting room; and 4) standing in the meeting room.

The ringing of and use of cell phones, pagers and similar sound-producing electronic devices are prohibited at this meeting. Please be advised that the Chair may order the removal from the meeting room of any person(s) responsible for the ringing or use of a cell phone, pager, or other similar sound-producing electronic devices.

LANGUAGE INTERPRETERS: Requests must be received at least 48 hours in advance of the meeting to help ensure availability. Contact Peggy Nevin at (415) 554-5184. AVISO EN ESPAÑOL: La solicitud para un traductor debe recibirse antes de mediodía de el viernes anterior a la reunion. Llame a Derek Evans (415) 554-5184. PAUNAWA: Ang mga kahilingan ay kailangang matanggap sa loob ng 48 oras bago mag miting upang matiyak na matutugunan ang mga hiling. Mangyaring tumawag kay sa (415) 554-5184.

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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.

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RBOC DRAFT MISSION AND GOALS

March 7, 2016

MISSION: 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 specific 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 welcome to attend RBOC meetings and provide input.

GOALS:

 Monitoring – The Committee maintains awareness of program scope, schedule and budget, and any major issues in planning and implementation of the program.

Activities:

- Through review of staff documents and discussions during staff presentations, members are made aware of milestones, schedule and budget adherence, question staff and consultants and provide advice on any remedial or mitigation strategies needed.
- Where additional technical assistance is needed, reports are prepared in conjunction with special consultants, reporting to the Committee.
- Routine reporting is in place, diagnostics of project delay are handled expeditiously, and course correction advice is provided in a timely manner.
- Conduct site visits
- - Committee members have an in depth knowledge of agency staff roles and responsibilities. When program or project delay or advancement occurs, the Committee understands where the accountability lies for delivery of program components.
 - The Committee also takes steps to keep the Commission, the Mayor's
 Office and the general public informed of the results of the monitoring and
 oversight activities, and summarizes these activities in its Annual Report.
- 3) Transparency The Committee practices transparency in its operations. *Activities:*
 - Transcripts of all meetings are available in various formats.
 - Meetings are open to the public and some meetings are held at community locations

4) Efficiency – The Committee utilizes staff and consultant time in cost effective ways.

Activities:

- The Committee meetings are well run.
- Meeting attendance is nearly one hundred percent
- Preparation and participation by members is active and involved.
- When a subject needs more detailed work than the entire Committee has available, ad hoc subcommittees are established by the Chair.
- Contractual assistance is competitively bid and the resulting recommendations used for improved program or project implementation.



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









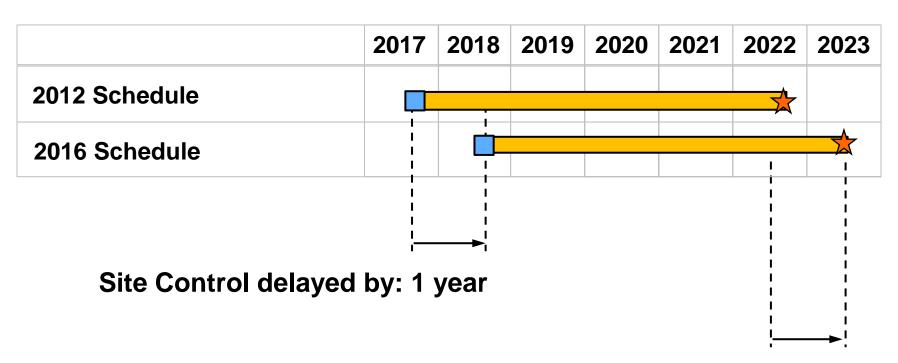
Prioritization & Refinement Process

- 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





End of Substantial Completion delayed by: 1 year



Phase 1: 2012 Commission-Endorsed

Planning	through	Construction	(\$M)
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•	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



Water Power Sewer 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



Commission-Endorsed Budget August 28, 2012

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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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



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SEP New Headworks



Biosolids Digester Facilities Project

Biosolids Project

SEP Improvements

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- DCS Upgrades
- Digester Repairs
- Power Feed Upgrades
- Seismic Reliability
- Oxygen Generation

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
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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

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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



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
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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
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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



Revenue Bond Oversight Committee

March 7, 2016
Daniel L. Wade, WSIP Director
Infrastructure







WSIP Program Status

• Regional: **90.8%**

• Local: 99.7%

• Overall WSIP: 91.6%







Recent Accomplishments

- Reached Substantial Completion on two projects:
 - Seismic Upgrade of BDPL Nos. 3 & 4 (Contract WD-2629)
 - Peninsula Pipelines Seismic Upgrade (Contract WD-2727)
- Reached Final Completion on two projects:
 - San Antonio Backup Pipeline (Contract WD-2575)
 - BDPL Reliability Upgrade Pipeline Peninsula Reaches (WD-2542)
- Completed 190 of 206 system shutdowns to date
- Achieved Level of Service on 40 of 44 Regional Projects
- Safety record exemplary based on 8.1 million recorded hours
- Recent Awards: EERI & ATC-SEI (WSIP), ACEC and ENR (Bay Tunnel), APWA (New Irvington Tunnel)



WSIP Cost Variances

(\$ Million)

Project	Current Approved (A)	Current Forecast (B)	Change (C=A-B)
Calaveras Dam Replacement	\$690.1	\$761.6	(\$71.5)
Alameda Creek Fish Passage Facilities (sub-project of Calaveras Dam Replacement)	\$28.2	\$48.4	(\$20.2)
New Irvington Tunnel	\$339.1	\$347.1	(\$8.0)
HTWTP Long-Term Improvements	\$278.2	\$280.2	(\$2.0)
Seismic Upgrade of BDPL Nos.3 & 4	\$75.1	\$77.0	(\$1.9)
New WSIP Closeout Project	-	\$10.5	(\$10.5)
Savings From Other Regional Projects	\$2,263.8	\$2,236.2	\$27.6
Savings From Local Projects	\$619.2	\$612.7	\$6.5
Financing	\$471.7	\$471.7	-
Grand Total	\$4,765.5	\$4,845.5	(\$80.0)





WSIP Schedule Variances

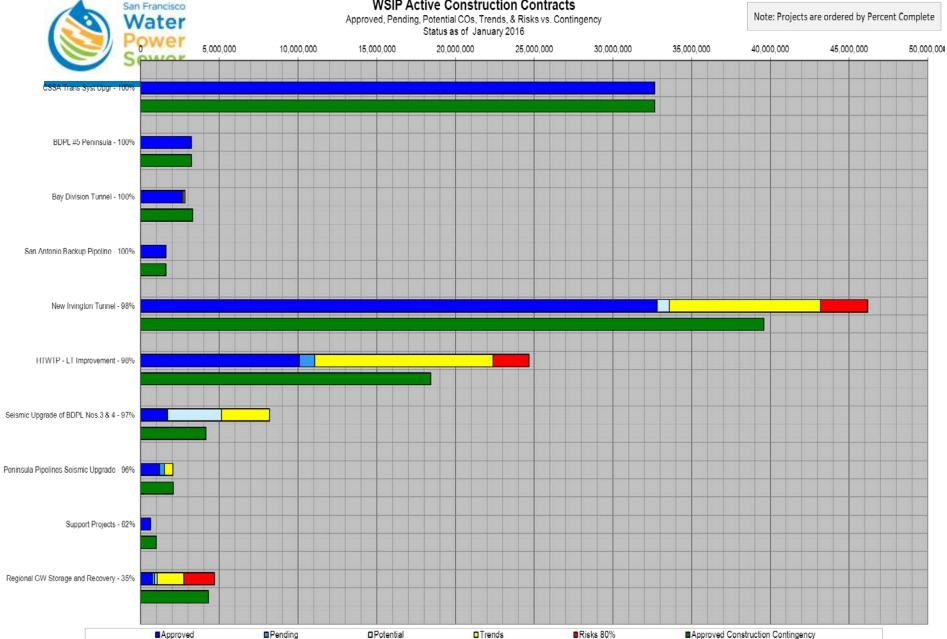
Project	Current Approved	Current Forecast	Change (Months)
Bioregional Habitat Restoration	07/28/16	05/31/18	(22.1)
New Irvington Tunnel	03/11/16	12/30/16	(9.7)
Regional Groundwater Storage and Recovery	07/31/18	04/30/19	(9.0)
System Security Upgrades	04/29/16	12/31/16	(8.1)
Watershed Environmental Improvement Program	08/31/18	04/26/19	(7.8)
HTWTP Long-Term Improvements	08/01/16	12/30/16	(5.0)
Seismic Upgrade of BDPL Nos. 3 & 4	05/02/16	09/30/16	(5.0)
BDPL Reliability Upgrade / Tunnel	03/31/16	06/30/16	(3.0)







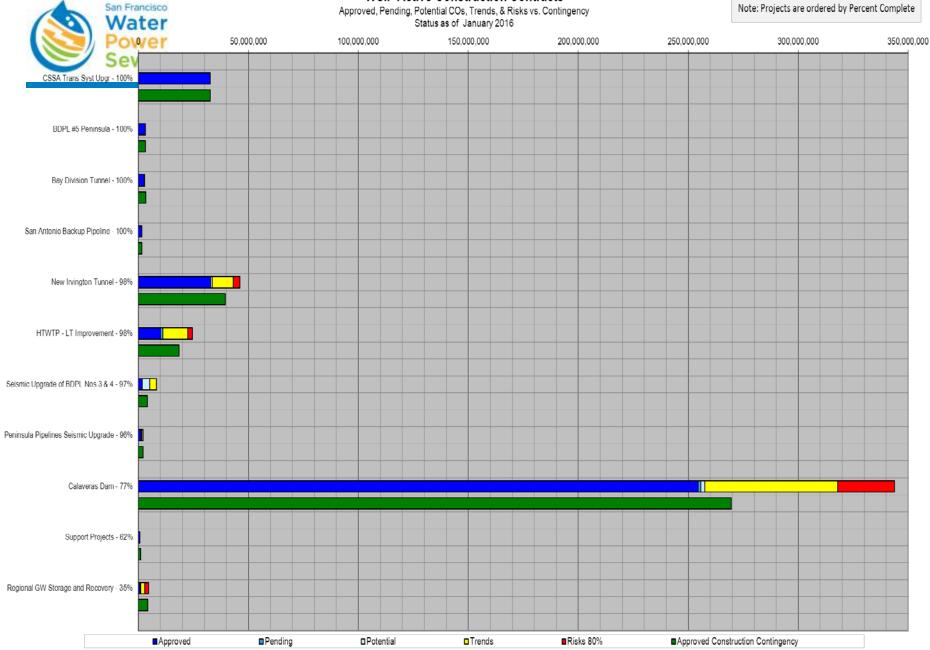




WSIP Active Construction Contracts

Approved, Pending, Potential COs, Trends, & Risks vs. Contingency

Note: Projects are ordered by Percent Complete

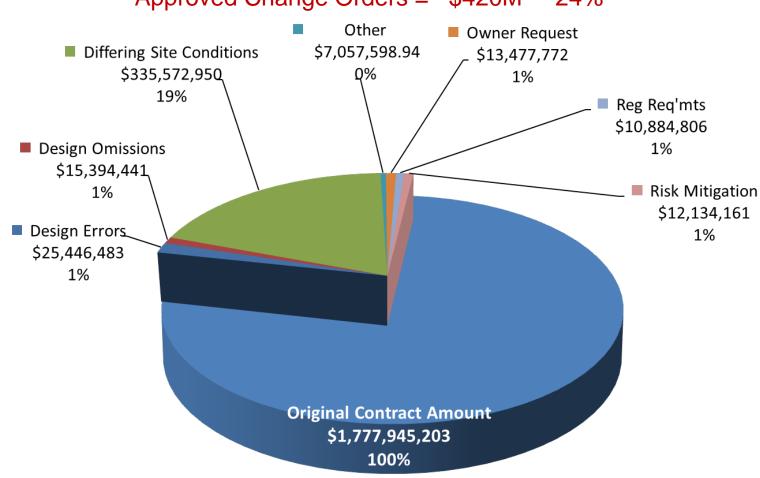




WSIP Active & Completed including BHR Regional Construction Contracts

Change Reason vs. Awarded Amount
January 2016

Approved Change Orders = \$420M 24%





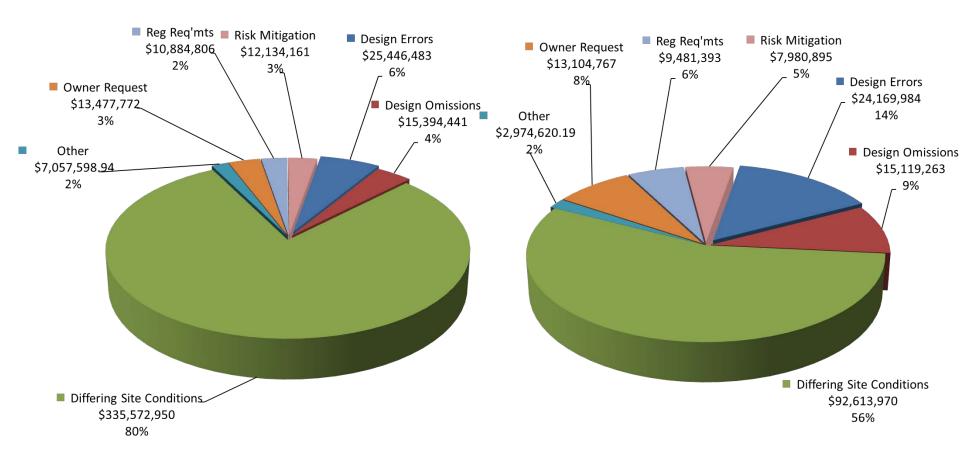
WSIP Active & Completed including BHR Change Order Reason

Approved Change Orders

January 2016

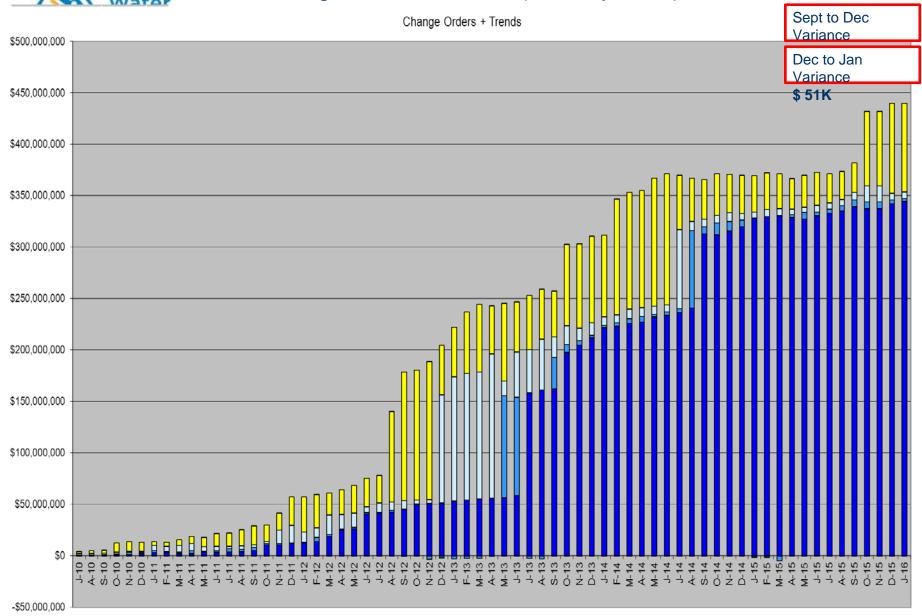
Total Approved CO \$420 M 24%

Total less CDRP \$165.4 M 11%



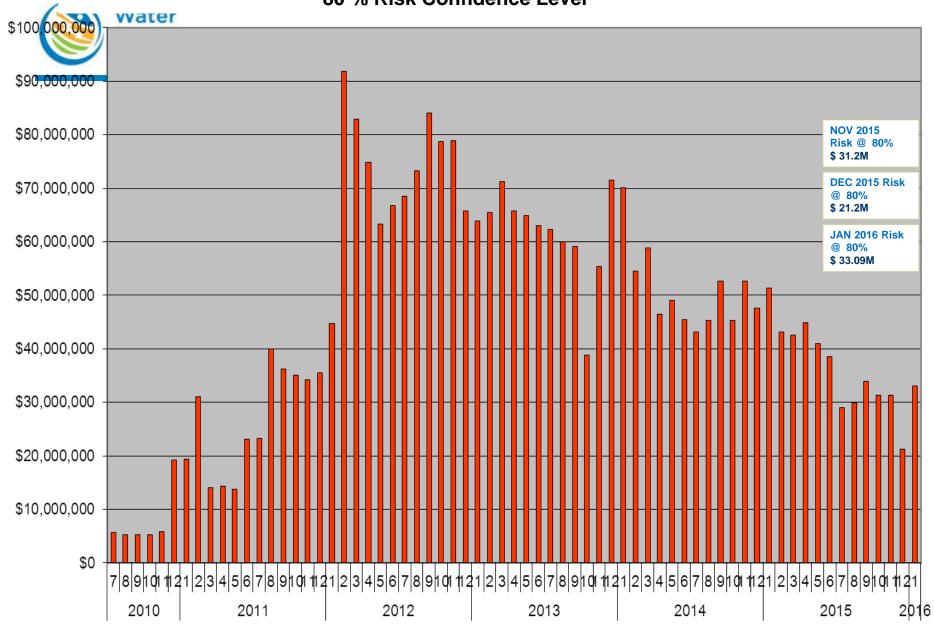


Change Order + Trends (January 2016)



Note: Including BHR

80 % Risk Confidence Level

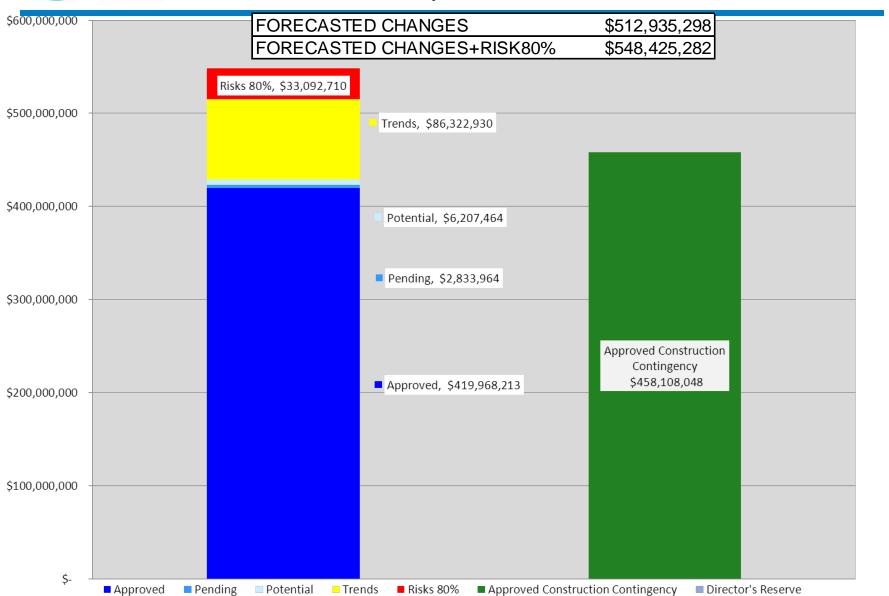


Note:



WSIP Active & Completed including BHR

Forecasted Changes VS Contingency January 2016





A Few Key WSIP Lessons Learned

Program / Project Controls

- Emphasize standardization and common understanding among internal and external stakeholders
- Meaningful status report updates schedule & budget

Quality Management

- Quality Control (QC) verses Quality Assurance (QA)
- Must be a priority in all phases of implementation

Risk Management

- Start formal risk program in planning and design phases
- Make it an integral part of day-to-day management

Change Management

- Establish clear scope definition and performance criteria
- Comprehensive investigations key however, must balance additional time to collect data with importance of data needs
- Meet early / often with Operations
- Control scope creep requests utilize LOS goals to evaluate





Next Steps

- Issue 30-day Notice of Change (NOC) in compliance with AB1823 in March 2016
- Request Commission Approval of Revised WSIP in April 2016

 Request Approval for \$80M Supplemental Appropriation from SF BOS in May 2016