



● **Board of Directors**  
***Engineering and Operations Committee***

8/18/2015 Board Meeting

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**8-1**

**Subject**

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Appropriate \$17.7 million; and (1) award \$10,267,000 contract to Kiewit Infrastructure West Co. for chemical feed upgrades at the F. E. Weymouth Water Treatment Plant; (2) award \$371,800 contract to O'Connell Engineering & Construction, Inc. for scrubber platform improvements; and (3) authorize agreement with Lee & Ro, Inc., in an amount not to exceed \$364,000 (Approps. 15392, 15472, & 15477)

**Executive Summary**

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This action awards two contracts to upgrade chemical systems at the F. E. Weymouth Water Treatment Plant: (1) construction of two chemical storage and feed systems; and (2) improvements to the scrubber system's access platform. These upgrades are needed to integrate the Weymouth plant's new ozone disinfection system into the existing treatment processes, and to enhance worker safety during maintenance activities. This action also authorizes an agreement for technical support during construction by the design consultant.

**Timing and Urgency**

The Weymouth plant is Metropolitan's final facility to receive the ozone disinfection process. Construction of the Weymouth Oxidation Retrofit Project (ORP) is now underway and is approximately 79 percent complete. Two chemical feed system upgrades need to be completed prior to start-up of the new ozonation system: (1) sodium hypochlorite, which controls the build-up of filter biomass in biologically active filters; and (2) ammonia, which is used to control the formation of bromate. These systems represent the most cost-effective means to control filter biomass and bromate formation, and are needed to maintain filtration rates and comply with water quality regulations once the ozone system commences operation.

The scrubber system is a critical component of the Weymouth plant's chlorine containment and handling system. The existing scrubbers have limited access for cleaning and removal of accumulated salts. Improvements to the platforms are needed to provide full access to the scrubber system during routine maintenance and to enhance safety.

These projects are included in the Water Quality/Oxidation Retrofit and Treatment Plant Reliability Programs within Metropolitan's Capital Investment Plan (CIP). Staff has assessed the priority, timing, and scope of these projects, and recommends that the work proceed in order to prevent delays in start-up of the Weymouth plant's new ozone system. Funds for this action are available within Metropolitan's capital expenditure plan for fiscal year 2015/16.

**Details**

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The Weymouth plant was placed into service in 1941 with an initial capacity of 100 million gallons per day (mgd), and has been expanded twice to its current treatment capacity of 520 mgd. The plant delivers a blend of waters from the Colorado River Aqueduct and State Water Project to a service area within Los Angeles and Orange Counties. The Weymouth plant is located in the city of La Verne.

The addition of ozone as the primary disinfectant at Metropolitan's treatment plants will substantially lower disinfection by-product (DBP) levels for compliance with the U. S. Environmental Protection Agency's Disinfectants/DBP Rule, and is consistent with board policy to provide ozonation at all five plants. In June 2012, Metropolitan's Board awarded a contract to construct ozonation facilities at the Weymouth plant. The sodium hypochlorite and bromate control facilities included in this action are integral components that support operation of the ORP.

At the Weymouth plant, chlorine is currently added upstream of the filters to provide disinfection. Once ozone is employed as the primary disinfectant, chlorine will instead be added downstream of the filters, allowing the filters to become biologically active. Chlorination of the filter backwash water will be needed to control filter biomass build-up and to prevent excessive pressure drop through the filters. To accomplish this, a new sodium hypochlorite facility located near the washwater storage tanks is needed. This approach represents the most cost-effective means to control filter biomass build-up at the plant.

Bromate is a regulated DBP that can be formed when raw water containing bromide undergoes ozonation. Beginning in 2010 at the Mills plant, Metropolitan initiated a full-scale evaluation of ammonia and chlorine injection (chloramines) as a method for bromate control in lieu of the sulfuric acid addition used at Metropolitan's other ozone installations. This use of chloramines has proven to be the most cost-effective strategy to control bromate formation. To adopt this strategy at the Weymouth plant, new ammonia and chlorine injection facilities are needed. However, a planned caustic soda facility can be eliminated and the size of the plant's sulfuric acid storage facility can be reduced. The total savings anticipated from use of chloramines for bromate control at the Weymouth plant is at least \$9.3 million over a 20-year period.

Metropolitan's Board authorized design of sodium hypochlorite and ammonia facilities in January and February 2013, respectively. Design of both systems has been completed, and staff recommends proceeding with construction at this time.

After the Weymouth plant has begun using ozone as its primary disinfectant, chlorine will continue to be added to the filtered water in order to maintain a disinfectant residual in the distribution system, and to comply with drinking water regulations. The plant's chlorine facility includes a containment and scrubber system which was installed to neutralize chlorine gas in the event of a leak. Periodically, accumulated salts must be removed from the absorption units and valves must be serviced in order to maintain the scrubber system. Plant staff presently use ladders to access the scrubbers, and employ hoisting equipment and harnesses when performing maintenance. Installation of a platform system to span the scrubber neutralization area will provide unobstructed access for thorough cleaning of the scrubbers, and will enhance safety. Final design of the platform has been completed, and staff recommends proceeding with construction at this time.

The planned upgrades contained in the two contracts are: installation of five storage tanks, chemical feed pumps, and instrumentation and controls; construction of covered containment areas and unloading facilities; addition of an access platform in the scrubber area; and relocation of chemical piping and electrical panels. Existing chemical feed systems will remain in service while the construction takes place. As a result, temporary piping and components will be installed, and multiple switchovers of completed segments will be required.

#### **Weymouth Scrubber Platform Improvements - Construction (\$550,000)**

Specifications No. 1749 for the Weymouth Scrubber Platform Improvements was advertised for bids on April 15, 2015. As shown in [Attachment 2](#), eight bids were received and opened on June 24, 2015. The low bid from O'Connell Engineering & Construction, Inc. in the amount of \$371,800 complies with the requirements of the specifications. The seven higher bids ranged from approximately \$385,000 to \$622,000, while the engineer's estimate was \$438,000. For this contract, Metropolitan established a Small Business Enterprise (SBE) participation level of at least 20 percent of the bid amount. O'Connell Engineering & Construction, Inc. is an SBE firm, and thus achieves 100 percent participation. There are no subcontractors for this contract.

This action appropriates \$550,000 and awards a \$371,800 contract to O'Connell Engineering & Construction, Inc. to construct a platform for the Weymouth scrubber area. In addition to the amount of the contract, the requested funds include \$28,000 for Metropolitan force support, which includes relocation of instrumentation and piping.

The requested funds also include \$60,000 for construction inspection; \$41,000 for review of submittals, technical support during construction, and record drawing preparation; \$21,000 for project management; and \$28,200 for remaining budget.

For this project, the anticipated cost of inspection is approximately 15 percent of the total construction cost. Engineering Services' goal for inspection of projects with construction cost less than \$3 million is 9 to 15 percent. The total cost of construction, which includes the amount of the contract and Metropolitan force activities, is \$400,000.

#### **Weymouth Chemical Upgrades - Construction (\$17,150,000)**

Specifications No. 1750 for the Weymouth Chemical Upgrades was advertised for bids on May 5, 2015. As shown in [Attachment 2](#), six bids were received and opened on July 1, 2015. The low bid from Kiewit Infrastructure West Co. in the amount of \$10,267,000 complies with the requirements of the specifications. The five higher bids ranged from approximately \$10.5 million to \$12.4 million, while the engineer's estimate was \$11.8 million. For this contract, Metropolitan established a Disadvantaged Business Enterprise (DBE) program in compliance with the terms of a California Safe Drinking Water State Revolving Fund (SRF) loan, which will be used to finance construction. No Small Business Enterprise (SBE) participation level was established for this contract. However, Kiewit Infrastructure West Co. will achieve an SBE participation level of approximately 11 percent on this contract. The subcontractors for this contract are listed in [Attachment 3](#).

This action appropriates \$17.15 million and awards a \$10,267,000 contract to Kiewit Infrastructure West Co. for chemical upgrades at the Weymouth plant. In addition to the amount of the contract, the requested funds include \$1,768,000 for construction support by Metropolitan forces, which includes installation of sodium hypochlorite piping in the plant's filter galleries, Supervisory Control and Data Acquisition (SCADA) system integration, and testing and start-up of the new systems. The requested funds also include \$1,455,000 for construction inspection; \$1,404,000 for conducting a Process Hazard Analysis, submittals review, technical support during construction, responding to requests for information, and record drawing preparation; \$296,000 for contract administration, shutdown planning, and project management; \$250,000 for reimbursement processing and reporting for the SRF loan with the California Division of Drinking Water (DDW), and for implementation of a funding compliance program; and \$1,710,000 for remaining budget.

For this project, the anticipated cost of inspection is approximately 12 percent of the total construction cost. Engineering Services' goal for inspection of projects with construction cost greater than \$3 million is 9 to 12 percent. The total cost of construction, which includes the amount of the contract and Metropolitan force activities, is \$12 million.

#### **Technical Support During Construction (Lee & Ro, Inc.) – New Agreement**

Lee & Ro, Inc. performed design of the Weymouth Scrubber Platform Improvements and the electrical components of the Weymouth Chemical Upgrades. This work was performed under an existing on-call agreement for engineering services that was previously authorized by Metropolitan's Board. As the Engineer of Record for these projects, Lee & Ro, Inc. is recommended to provide technical support during construction under a new project-specific agreement. The planned services include review of submittals, responding to requests for information from the contractor, advising staff on technical issues as they may arise, and preparing record drawings. The estimated cost for these services is \$364,000.

This action authorizes a professional services agreement with Lee & Ro, Inc., in an amount not to exceed \$364,000, for technical support during construction of the Weymouth Chemical Upgrades and Weymouth Scrubber Platform Improvements. Lee & Ro, Inc. is an SBE firm, and thus achieves 100 percent SBE participation. No subconsultants are planned for this agreement.

#### **Funding Compliance Monitoring (TSG Enterprises, Inc.) – No Action Required**

In May 2014, Metropolitan's Board adopted a resolution to accept \$11 million of California Safe Drinking Water SRF loan funding for the Weymouth Chemical Upgrades. Execution of a letter of commitment between the

California DDW and Metropolitan to provide \$11 million for eligible construction-related activities is planned for late 2015.

Metropolitan's acceptance of the SRF loan requires implementation of a funding compliance program. These programs are used to monitor compliance with the funding agreement on SRF-financed projects, including the contractor's compliance with labor laws. In May 2014, Metropolitan's Board authorized a professional services agreement with TSG Enterprises, Inc. to perform funding compliance monitoring for SRF-financed projects. TSG Enterprises, Inc. (dba The Solis Group) was selected through a competitive process based on its specialized experience with funding compliance programs.

Planned activities for TSG Enterprises, Inc. for the Weymouth Chemical Upgrades include review of contractor payroll records; preparation of reports to the state Department of Industrial Relations; and conducting labor compliance workshops. The estimated cost for these services is \$116,000. No amendment to the existing agreement with TSG Enterprises, Inc. is required for this work. TSG Enterprises, Inc. is an SBE firm, and thus achieves 100 percent SBE participation. No subconsultants are planned for this agreement.

#### **Environmental Compliance Monitoring (Rincon Consultants) – No Action Required**

Rincon Consultants, Inc. will perform environmental monitoring for the Weymouth Chemical Upgrades under a professional services agreement that was previously awarded under the General Manager's Administrative Code authority. Planned activities include monitoring of construction activities for compliance with environmental mitigation measures contained in the project's Final Environmental Impact Report (EIR), and preparing compliance reports. This work is specialized and Metropolitan has insufficient technical staff in-house to perform these activities. The estimated cost for Rincon Consultants, Inc. to provide these services is \$40,000.

No amendment is needed to the existing agreement with Rincon Consultants, Inc. to perform this work. For this agreement, Metropolitan has established an SBE participation level of 18 percent. Rincon Consultants, Inc. has agreed to meet this level of participation. Applied Earthworks, Inc. is the sole subconsultant planned under this agreement.

#### **Summary**

This action appropriates \$17.7 million; awards a \$371,800 contract to O'Connell Engineering & Construction, Inc.; awards a \$10,267,000 contract to Kiewit Infrastructure West Co.; and authorizes a professional services agreement with Lee & Ro, Inc. This work has been evaluated and recommended by Metropolitan's CIP Evaluation Team, and funds are available within the fiscal year 2015/16 capital expenditure plan. See [Attachment 1](#) for the Financial Statements, [Attachment 2](#) for the Abstracts of Bids, [Attachment 3](#) for the List of Subcontractors, and [Attachment 4](#) for the Location Map.

The total estimated cost to complete the Weymouth Chemical Upgrades, including the amount appropriated to date and current funds requested, is approximately \$21.64 million. This project is included within capital Appropriation No. 15392, the Weymouth Oxidation Retrofit Program, which was initiated in fiscal year 2001/02, and within Appropriation No. 15472, the Enhanced Bromate Control Appropriation, which was initiated in fiscal year 2011/12. With the present action, the total funding for Appropriation No. 15392 will increase from \$238,012,000 to \$246,892,000, and the total funding for Appropriation No. 15472 will increase from \$1.97 million to \$10.24 million.

The total estimated cost to complete the Weymouth chlorine scrubber platform, including the amount expended to date and current funds requested, is approximately \$681,000. This project is included within capital Appropriation No. 15477, the Weymouth Improvements Appropriations – FY 2012/13 Through FY 2017/18, which was initiated in fiscal year 2012/13. Upon approval of this action, expenditures to date on this project will be transferred into Appropriation No. 15477 from Appropriation No. 15470, the Minor Capital Projects Program for fiscal year 2011/12. With the present action, the total funding for Appropriation No. 15477 will increase from \$50,136,950 to \$50,686,950.

***Project Milestones***

July 2016 – Completion of the Weymouth chlorine scrubber platform

March 2018 – Completion of the Weymouth chemical upgrades

**Policy**

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Metropolitan Water District Administrative Code Section 5108: Appropriations

Metropolitan Water District Administrative Code Section 8121: General Authority of the General Manager to Enter Contracts

**California Environmental Quality Act (CEQA)**

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**Weymouth Chemical Upgrades****CEQA determination for Options #1 and #2:**

The environmental effects from the Weymouth Chemical Upgrades project were evaluated in the F. E. Weymouth Filtration Plant Ozonation Facilities and Site Improvements Program Final Environmental Impact Report (Final EIR), which was certified by the Board on April 12, 2005. The Board also approved the Findings of Fact (Findings), the Statement of Overriding Considerations (SOC), the Mitigation Monitoring and Reporting Program (MMRP), and the project itself. The current action is solely based on awarding a construction contract for the Weymouth Chemical Upgrades project, and not on any changes to the approved project itself. Hence, the previous environmental documentation acted on by the Board in conjunction with the proposed action fully complies with CEQA and the State CEQA Guidelines. Accordingly, no further CEQA documentation is necessary for the Board to act on the proposed action.

The CEQA determination is: Determine that the proposed action has been previously addressed in the certified 2005 Final EIR, Findings, SOC, and MMRP, and that no further environmental analysis or documentation is required.

**CEQA determination for Option #3:**

None required

**Weymouth Chlorine Scrubber Platform Improvements****CEQA determination for Option #1:**

The proposed action is categorically exempt under the provisions of CEQA and the State CEQA Guidelines. The proposed action involves the funding, minor alterations, and reconstruction or replacement of existing public facilities along with the construction of minor appurtenant structures with negligible or no expansion of use and no possibility of significantly impacting the physical environment. Accordingly, the proposed action qualifies under Class 1, Class 2, and Class 3 Categorical Exemptions (Sections 15301, 15302, and 15303 of the State CEQA Guidelines).

The CEQA determination is: Determine that pursuant to CEQA, the proposed action qualifies under three Categorical Exemptions (Class 1, Section 15301; Class 2, Section 15302; and Class 3, Section 15303 of the State CEQA Guidelines).

**CEQA determination for Options #2 and #3:**

None required

## Board Options

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### Option #1

Adopt the CEQA determination that the proposed action has been previously addressed in the certified EIR and that no further environmental analysis or documentation is required, and that the proposed action is categorically exempt, and

- a. Appropriate \$17.7 million;
- b. Award \$10,267,000 contract to Kiewit Infrastructure West Co. for chemical feed upgrades at the Weymouth plant;
- c. Award \$371,800 contract to O'Connell Engineering & Construction, Inc. for scrubber platform improvements; and
- d. Authorize agreement with Lee & Ro, Inc. in an amount not to exceed \$364,000.

**Fiscal Impact:** \$8.88 million of capital funds under Approp. No. 15392; \$8.27 million of capital funds under Approp. No. 15472; and \$550,000 of capital funds under Approp. No. 15477

**Business Analysis:** The chemical feed upgrades are needed for the Weymouth plant's new ozonation system to commence operation. The scrubber platform upgrades will enhance worker safety during maintenance activities.

### Option #2

Adopt the CEQA determination that the proposed action has been previously addressed in the certified EIR and that no further environmental analysis or documentation is required, and

- a. Appropriate \$17.15 million;
- b. Award \$10,267,000 contract to Kiewit Infrastructure West, Co. for chemical feed upgrades at the Weymouth plant;
- c. Authorize agreement with Lee & Ro, Inc. in an amount not to exceed \$364,000; and
- d. Do not proceed with the scrubber platform improvements at this time.

**Fiscal Impact:** \$8.88 million of capital funds under Approp. No. 15392 and \$8.27 million of capital funds under Approp. No. 15472

**Business Analysis:** This option would proceed with the chemical feed systems needed for the Weymouth plant's new ozonation system to commence operation, but would defer the platform improvements. This option would forgo an opportunity to improve access for maintenance activities.

### Option #3

Do not proceed with the projects at this time.

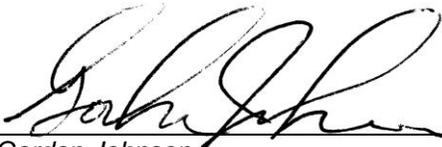
**Fiscal Impact:** None

**Business Analysis:** This option would delay the start-up of the Weymouth plant's new ozonation system. As a result, the plant would continue to use chlorine as the primary disinfectant. This option would forgo an opportunity to improve access for maintenance activities.

**Staff Recommendation**

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Option #1

  
\_\_\_\_\_  
Gordon Johnson  
Manager/Chief Engineer  
Engineering Services

7/24/2015  
Date

  
\_\_\_\_\_  
Jeffrey Kightlinger  
General Manager

8/5/2015  
Date

- Attachment 1 – Financial Statements**
- Attachment 2 – Abstracts of Bids**
- Attachment 3 – List of Subcontractors**
- Attachment 4 – Location Map**

Ref# es12637946

**Financial Statement for Weymouth Oxidation Retrofit Program**

A breakdown of Board Action No. 13 for Appropriation No. 15392 for sodium hypochlorite feed system improvements<sup>1</sup> is as follows:

	<b>Previous Total Appropriated Amount (Dec. 2013)</b>	<b>Current Board Action No. 13 (Aug. 2015)</b>	<b>New Total Appropriated Amount</b>
Labor			
Studies & Investigations	\$ 1,464,000	\$ -	\$ 1,464,000
Final Design	19,159,975	-	19,159,975
Owner Costs (Program mgmt., permitting)	9,316,400	228,000	9,544,400
Submittals Review & Record Drwgs	7,567,600	565,000	8,132,600
Construction Inspection & Support	18,949,724	771,000	19,720,724
Metropolitan Force Construction	7,939,000	775,000	8,714,000
Materials & Supplies	9,587,650	133,000	9,720,650
Incidental Expenses	448,000	8,000	456,000
Professional/Technical Services	17,659,732	-	17,659,732
Lee & Ro, Inc.	-	182,000	182,000
Rincon Consultants	-	21,000	21,000
TSG Enterprises, Inc.	-	62,000	62,000
Contracts	135,541,189	5,442,000	140,983,189
Equipment Use	98,000	-	98,000
Remaining Budget <sup>2</sup>	10,280,730 <sup>2</sup>	693,000	10,973,730
<b>Total</b>	<b>\$ 238,012,000</b>	<b>\$ 8,880,000</b>	<b>\$ 246,892,000</b>

**Funding Request**

<b>Appropriation Name:</b>	Weymouth Oxidation Retrofit Program		
<b>Source of Funds:</b>	Revenue Bonds, Replacement and Refurbishment or General Funds		
<b>Appropriation No.:</b>	15392	<b>Board Action No.:</b>	13
<b>Requested Amount:</b>	\$8,880,000	<b>Budget Page No.:</b>	328
<b>Total Appropriated Amount:</b>	\$246,892,000	<b>Total Program Estimate:</b>	\$270,000,000

<sup>1</sup>The total amount expended to date on the Weymouth sodium hypochlorite improvements is approximately \$4,204,000. The total estimated cost to complete this project, including the amount appropriated to date and current funds requested, is \$12,470,000.

<sup>2</sup>Includes previous reallocation from Remaining Budget of \$2,078,275 for design of sodium hypochlorite feed systems, authorized construction contract changes on the Weymouth Electrical Upgrades project for the ORP switchgear, and a credit to Remaining Budget to reflect completion of the ORP final design under budget.

**Financial Statement for Enhanced Bromate Control Program**

A breakdown of Board Action No. 3 for Appropriation No. 15472 for bromate control facilities at the Weymouth plant<sup>1</sup> is as follows:

	<b>Previous Total Appropriated Amount (Feb. 2013)</b>	<b>Current Board Action No. 3 (Aug. 2015)</b>	<b>New Total Appropriated Amount</b>
Labor			
Studies & Investigations	\$ 217,000	\$ -	\$ 217,000
Final Design	930,000	-	930,000
Owner Costs (Program mgmt., permitting)	471,000	202,000	673,000
Submittals Review & Record Drwgs	-	496,000	496,000
Construction Inspection & Support	-	684,000	684,000
Metropolitan Force Construction	-	688,000	688,000
Materials & Supplies	1,000	117,000	118,000
Incidental Expenses	11,000	7,000	18,000
Professional/Technical Services	67,000	-	67,000
Lee & Ro, Inc.	-	161,000	161,000
Rincon Consultants	-	19,000	19,000
TSG Enterprises, Inc.	-	54,000	54,000
Contracts	-	4,825,000	4,825,000
Equipment Use	-	-	-
Remaining Budget	273,000	1,017,000	1,290,000
<b>Total</b>	<b>\$ 1,970,000</b>	<b>\$ 8,270,000</b>	<b>\$ 10,240,000</b>

**Funding Request**

<b>Appropriation Name:</b>	Enhanced Bromate Control Program		
<b>Source of Funds:</b>	Revenue Bonds, Replacement and Refurbishment or General Funds		
<b>Appropriation No.:</b>	15472	<b>Board Action No.:</b>	3
<b>Requested Amount:</b>	\$8,270,000	<b>Budget Page No.:</b>	292
<b>Total Appropriated Amount:</b>	\$10,240,000	<b>Total Program Estimate:</b>	\$9,600,000

<sup>1</sup>The total amount expended to date on the Weymouth Bromate Control project is approximately \$903,000. The total estimated cost to complete this project, including the amount appropriated to date and current funds requested, is \$9,173,000.

**Financial Statement for Weymouth Improvements Appropriation - FY 2012/13 Through FY 2017/18**

A breakdown of Board Action No. 13 for Appropriation No. 15477 for scrubber platform improvements<sup>1</sup> is as follows:

	<b>Previous Total Appropriated Amount (May 2015)</b>	<b>Current Board Action No. 13 (Aug. 2015)</b>	<b>New Total Appropriated Amount</b>
Labor			
Studies & Investigations	\$ 1,359,000	\$ -	\$ 1,359,000
Final Design	1,079,500	-	1,079,500
Owner Costs (Program mgmt., permitting)	1,726,250	21,000	1,747,250
Submittals Review & Record Drwgs	279,000	20,000	299,000
Construction Inspection & Support	3,488,000	60,000	3,548,000
Metropolitan Force Construction	913,700	23,000	936,700
Materials & Supplies	17,800	-	17,800
Incidental Expenses	90,900	5,000	95,900
Professional/Technical Services	3,416,900	-	3,416,900
Lee & Ro, Inc.	-	21,000	21,000
Contracts	33,295,609	371,800	33,667,409
Equipment Use	49,100	-	49,100
Remaining Budget	4,421,191	28,200	4,449,391
<b>Total</b>	<b>\$ 50,136,950</b>	<b>\$ 550,000</b>	<b>\$ 50,686,950</b>

**Funding Request**

<b>Appropriation Name:</b>	Weymouth Improvements Appropriation - FY 2012/13 Through FY 2017/18		
<b>Source of Funds:</b>	Revenue Bonds, Replacement and Refurbishment or General Funds		
<b>Appropriation No.:</b>	15477	<b>Board Action No.:</b>	13
<b>Requested Amount:</b>	\$550,000	<b>Budget Page No.:</b>	326
<b>Total Appropriated Amount:</b>	\$50,686,950	<b>Total Program Estimate:</b>	\$83,957,950

<sup>1</sup>The total amount expended to date on the scrubber platform improvements is approximately \$131,000. The total estimated cost to complete this project is approximately \$681,000. Funds for this project were originally appropriated under Approp. No. 15470. All expenditures to date will be transferred to Approp. No. 15477.

**The Metropolitan Water District of Southern California**

**Abstract of Bids Received on June 24, 2015 at 2:00 P.M.**

**Specifications No. 1749**

**F. E. Weymouth Water Treatment Plant Scrubber Platform Improvements**

The work consists of fabrication and installation of approximately 1,400 square feet of multi-level platforms to access a scrubber neutralization area.

**Engineer's Estimate: \$438,000**

<b>Bidder and Location</b>	<b>Total</b>	<b>SBE \$</b>	<b>SBE %</b>	<b>Met SBE<sup>1</sup></b>
<b>O'Connell Engineering &amp; Construction, Inc. Winchester, CA</b>	<b>\$371,800</b>	<b>\$371,800</b>	<b>100</b>	<b>Yes</b>
Kaveh Engineering & Construction, Inc. Anaheim, CA	\$384,873	-	-	-
Gilman Builders, Inc. Irvine, CA	\$409,300	-	-	-
Metro Builders & Engineers Group, Ltd. Newport Beach, CA	\$427,717	-	-	-
Tharsos, Inc. La Mesa, CA	\$433,620	-	-	-
Carbon Activated Corporation Compton, CA	\$450,000	-	-	-
MMC, Inc. La Palma, CA	\$584,101	-	-	-
Cora Constructors, Inc. Palm Dessert, CA	\$622,000	-	-	-

<sup>1</sup> SBE (Small Business Enterprise) participation level established at 20 percent for this contract.

**The Metropolitan Water District of Southern California**

**Abstract of Bids Received on July 1, 2015 at 2:00 P.M.**

**Specifications No. 1750**

**F. E. Weymouth Water Treatment Plant Chemical Upgrades**

The work consists of construction of storage and feed facilities for sodium hypochlorite and ammonia including five storage tanks, two covered containment areas, unloading facilities, bromate control ejector structure, chemical feed pumps, instrumentation and controls, electrical components; and removal of an existing reclamation plant.

**Engineer’s Estimate: \$11,800,000**

<b>Bidder and Location</b>	<b>Total</b>	<b>Met DBE<sup>1</sup></b>
<b>Kiewit Infrastructure West Co. Santa Fe Springs, CA</b>	<b>\$10,267,000</b>	<b>Yes</b>
Kana Engineering Group, Inc. Rancho Cucamonga, CA	\$10,503,807	-
J. F. Shea Construction, Inc. Walnut, CA	\$10,983,525	-
Minako America Corporation dba: Minco Construction / Gardena, CA	\$11,100,000	-
Skanska USA Civil West California District Inc. / Riverside, CA	\$11,694,000	-
Archer Western Construction LLC San Diego, CA	\$12,338,000	-
PCL Construction, Inc. Corona, CA	\$12,363,000	-

<sup>1</sup> Requires submission of “Good Faith Effort” documentation to increase DBE (Disadvantaged Business Enterprise) awareness of contracting opportunities through outreach, recruitment, and technical assistance.

**The Metropolitan Water District of Southern California  
Subcontractors for Low Bidder**

**Specifications No. 1750  
F. E. Weymouth Water Treatment Plant Chemical Upgrades**

**Low Bidder: Kiewit Infrastructure West Co.**

<b>Subcontractor and Location</b>
Amber Steel Co., Rialto, CA
Environmental Construction Group, Inc., Signal Hill, CA
Hardy & Harper, Inc., Santa Ana, CA
Eberhard SMC, Van Nuys, CA
Cor-Ray Painting Co., Inc., Santa Fe Springs, CA
Griffith Co., Santa Fe Springs, CA
Goss Construction Co., Inc., Rancho Cucamonga, CA
Hobbs-Bannerman, Inc., Torrance, CA

