

March 23, 2017

TO: Planning and Engineering Committee
Gary Martin, Chair
Tom Campbell, Vice Chair
B. J. Atkins
Bill Cooper
Bill Peci

FROM: Brian J. Folsom *BJF*
Engineering and Operations Manager



The **Planning and Engineering Committee** is scheduled to meet on **Tuesday, April 4, 2017 at 5:30 PM** in the Training Room at the Rio Vista Water Treatment Plant.

MEETING AGENDA

1. Public Comment
2. * Proposed FY 2017/18 Minor and Major Capital Improvement Projects
3. * Proposed FY 2017/18 Action Items
4. * Presentation on Emergency and Operational Storage Study
5. * Recommend Authorizing the General Manager to Execute Addendum Number 2 to the Honby Pipeline Relocation Agreement and Approve Payment to Five Point Land, LLC
6. * Capital Improvements Projects Construction Status Report
7. * Committee Planning Calendar
8. General Report on Engineering and Operations Department Activities
9. CLOSED SESSION – CONFERENCE WITH LEGAL COUNSEL
Initiation of Litigation pursuant to paragraph (4) of subdivision (d) Section 54956.9 (1 Case)
10. Adjournment

- * Indicates attachment
- ◆ To be distributed

cc: CLWA Board of Directors
Joe Byrne

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Notices:

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning (661) 297-1600, or writing to Castaic Lake Water Agency at 27234 Bouquet Canyon Road, Santa Clarita, CA 91350. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that Agency staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the Agency to provide the requested accommodation.

Pursuant to Government Code Section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection at the Castaic Lake Water Agency, located at 27234 Bouquet Canyon Road, Santa Clarita, California 91350, during regular business hours. When practical, these public records will also be made available on the Agency's Internet Web site, accessible at <http://www.clwa.org>.

MBS



Castaic Lake Water Agency Memorandum

March 23, 2017

To: CLWA Planning and Engineering Committee
From: Brian J. Folsom *BJF*
Engineering and Operations Manager
Subject: Proposed FY 2017/18 Minor and Major Capital Improvement Projects

SUMMARY

Attached are the proposed minor and major capital improvement projects for FY 2017/18 for review and consideration.

FINANCIAL CONSIDERATIONS

Revenue sources to fund these projects will be considered separately by the Budget and Rates Committee. Sources may include CLWA's share of the 1% property taxes, facility capacity fees, wholesale water rates and settlement payments from litigation.

RECOMMENDATION

The minor and major capital improvement project budgets are presented for review and comment only.

BJF

Attachments

MBS

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Engineering and Operations Department Major Capital Projects
Updated March 24, 2017

Projects	Category. See below for description	Current Estimated Total Project Cost	2016		2017				2018				2019				2020				2021				2022				2023				2024				2025	
			Jun	Sep	Jan	Mar	Jun	Sep	Jan	Mar	Jun	Sep	Jan	Mar	Jun	Sep	Jan	Mar	Jun	Sep	Jan	Mar	Jun	Sep	Jan	Mar	Jun	Sep	Jan	Mar	Jun	Sep	Jan	Mar	Jun	Sep		
			FY 2016/17				FY 2017/18				FY 2018/19				FY 2019/20				FY 2020/21				FY 2021/22				FY 2022/23				FY 2023/24				FY 2024/25			
			1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
1	Foothill Feeder Connection Construction	\$ 5,308,000		D			C																															
2	ESFP Clearwell Improvements	\$ 8,606,000		D			C																															
3	Distribution System - RV-2 Modifications	\$ 4,156,000		D			C																															
4	ESIPS Pipeline Improvements	\$ 4,083,000		P		D	C																															
5	Replacement Wells (Reimbursable)	\$ 9,779,000		P		D	C																															
6	Saugus Formation Dry Year Reliability Wells	\$ 9,501,000		P		D	C																															
7	Recycled Water Program Phase II, 2B, Vista Canyon	\$ 5,094,000		P		D	C					S																										
8	Recycled Water Program Phase II, 2D, West Ranch	\$ 2,865,000		P		D	C					S																										
9	Magic Mountain Pipeline No. 4	\$ 3,479,000		D			D	C																														
10	ESFP Sludge Collection System	\$ 14,641,000				D	C																															
11	Groundwater Treatment Improvements	\$ 1,933,000				P	D	C																														
12	Castaic Conduit	\$ 15,116,000		D		RW	D	C																														
13	Magic Mountain Pipeline No. 5	\$ 3,762,000		D			D	C																														
14	Recycled Water Program Phase II 2C, South End	\$ 14,382,000		P		D	RW	D	C												S																	
15	Magic Mountain Pipeline No. 6	\$ 8,876,000				D	RW	D	C																													
16	Honby Parallel	\$ 21,444,000		D		RW	D	C																														
17	Magic Mountain Reservoir	\$ 37,943,000				P	D	RW	D	C																												
18	Recycled Water Program Phase II, 2A, Central Park	\$ 13,394,000		P		D															RW	D	C															
19	Southern Service Area Emergency Storage	\$ 61,766,000																			P	D	RW	D	C													
20	Sand Canyon Reservoir Expansion	\$ 17,692,000																			P	D	RW	D	C													
Total Estimated Cost																																						
			FY 2016/17				FY 2017/18				FY 2018/19				FY 2019/20				FY 2020/21				FY 2021/22				FY 2022/23				FY 2023/24				FY 2024/25			
			1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q

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Category A = Operational Requirement / Improvement Project
Category B = Water Quality / Regulatory Project
Category C = Capacity / Demand Management Project

LEGEND:
 Planning Phase (P)
 Design Phase (D)
 Right-of-Way/Land Acquisition (RW)
 Construction (C)
 Conversions/ Start-Up (S)

CASTAIC LAKE WATER AGENCY
 Minor Capital Projects
 FY 2017/18 Budget



The Minor Capital Projects Budget is funded by one percent property tax revenues.

	Project Title	Total Estimated Project Cost *	FY 2015/16 Actual	FY 2016/17 Budget	FY 2016/17 Estimated	FY 2017/18 Budget	
300415	ESFP HVAC Replacement	\$ 150,000	\$ -	\$ 130,000	\$ 240,000	\$ -	A
300416	ESFP Emergency Generator Replacement	200,000	44,075	25,000	6,000	150,000	
301002	ESIPS Additional Pump	910,000	139,141	874,000	770,000	-	B
300321	Pipeline Inspection Facility Modifications	Ongoing	533,915	800,000	785,000	200,000	C
300308	Pipeline Relocations/Modifications	Ongoing	13,465	125,000	63,000	135,000	D
300017	RVWTP Ozone Gas Collection Modification	515,000	88,639	310,000	432,000	-	E
300018	RVWTP Upper Mesa Erosion Repair	tbd	-	65,000	70,000	-	F
300329	SPTF Pressure Control Modifications	200,000	-	75,000	25,000	175,000	G
300328	Devil's Den Property Solar Project	tbd	4,010	60,000	45,000	60,000	H
NEW	RVWTP UST Replacement	575,000	-	-	-	75,000	
Total Minor Capital Projects		\$ 2,550,000	\$ 823,245	\$ 2,464,000	\$ 2,436,000	\$ 795,000	

* Note that projects with a "tbd" for Total Estimated Project Cost are in the planning or design phase. Total Estimated Project Cost will be developed through this process.

- A Replacement of HVAC system that is over 15 years old and requires frequent repairs. New system will be more energy and water efficient.
- B Provides a third pump to provide redundancy for two existing pumps and increase pumping capacity at low lake levels. Total pump capacity for the facility is five pumps, which will be needed at build-out.
- C Modifications to existing facilities to accommodate pipeline inspection activities.
- D Includes funds for potential/relocation of Sand Canyon Pipeline due to Sierra Highway Bridge widening.
- E Improvements needed to correct collection and off gas of ozone gas in plant influent pipeline near the ozone injection station.
- F Study to determine necessary minor capital project to address substantial erosion.
- G Will be submitted for reimbursement from the perchlorate settlement agreement.
- H Studies related to a potential solar energy project.

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CASTAIC LAKE WATER AGENCY
Capital Improvement Budget
FY 2016/17 Budget
Major Capital Projects

CIP No.	Project Title	Project Category (A, B, C)	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
200903	Castaic Conduit	A, C	\$ 15,116,000	\$ 15,116,000	\$ 59,000	\$ 907,000	\$ 353,000
200010	Distribution System - RV-2 Modifications	A	3,928,000	4,156,000	122,000	807,000	3,346,000
200105	ESFP Clearwell/CT Improvements	A, B, C	9,047,000	8,606,000	876,000	1,495,000	5,786,000
200103	ESFP Sludge Collection System	B, C	9,581,000	14,641,000	143,000	809,000	34,000
200151	ESIPS Pipeline Improvements	A	2,163,000	4,083,000	274,000	377,000	3,706,000
200905	Foothill Feeder Connection**	C	5,308,000	5,308,000	445,000	972,000	4,236,000
XXXXXX	Groundwater Treatment Improvements	B	-	1,933,000	10,000	10,000	1,040,000
200510	Honby Parallel	A, C	21,444,000	21,444,000	396,000	2,500,000	130,000
200525	Magic Mountain Pipeline No. 4	A, C	3,459,000	3,479,000	-	93,000	75,000
200526	Magic Mountain Pipeline No. 5	A, C	3,762,000	3,762,000	1,000	20,000	23,000
200527	Magic Mountain Pipeline No. 6	A, C	8,876,000	8,876,000	-	1,000	4,000
200528	Magic Mountain Reservoir	A, C	27,119,000	37,943,000	55,000	59,000	211,000
200453	Recycled Water Program Phase II, 2A - Central Park	C	13,394,000	13,394,000	27,000	252,000	17,000
200454	Recycled Water Program Phase II, 2B - Vista Canyon	C	5,094,000	5,094,000	46,000	160,000	369,000
200455	Recycled Water Program Phase II, 2C - South End	C	14,382,000	14,382,000	29,000	396,000	453,000
200456	Recycled Water Program Phase II, 2D - West Ranch	C	2,865,000	2,465,000	38,000	138,000	395,000
200962	Replacement Wells*	B, C	10,650,000	9,779,000	85,000	288,000	320,000
200011	RWWTP Clearwell Cover Improvements**	A, B, C	10,409,800	10,303,500	102,900	10,303,500	-
200963	Saugus Formation Dry Year Reliability Wells**	B, C	12,650,000	9,501,000	91,000	279,000	320,000
200906	Rosedale Rio Bravo Extraction**	C	7,376,000	9,736,000	4,812,500	7,736,000	2,000,000
XXXXXX	Update Water Conservation and Education Garden		-	\$ TBD	-	-	340,000
Total			\$ 186,623,800	\$ 204,001,500	\$ 7,612,400	\$ 27,602,500	\$ 23,158,000

* The Budget for Replacement Wells is subject to reimbursement under the perchlorate settlement agreement. Reimbursement takes place in subsequent fiscal year.

** Project has been awarded Federal EPA or State Proposition 84 grant funding.

CATEGORY A: Operational Requirement/Improvement Project

CATEGORY B: Water Quality/Regulatory Project

CATEGORY C: Capacity/Demand Improvement Project

Castaic Lake Water Agency
Capital Improvement Budget
FY 2017/18 Budget

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CIP No. 200903

CASTAIC CONDUIT					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 102,000	\$ 102,000	\$ -	\$ 102,000	\$ -
Agency Labor	14,000	14,000	-	14,000	-
Consultant	84,000	84,000	-	84,000	-
Equipment	-	-	-	-	-
Other Direct Costs	4,000	4,000	-	4,000	-
Design (Including Bid Services)	1,033,000	1,033,000	59,000	805,000	178,000
Agency Labor	57,000	57,000	8,000	36,000	20,000
Consultant	947,000	947,000	50,000	760,000	150,000
Equipment	-	-	-	-	-
Other Direct Costs	29,000	29,000	1,000	9,000	8,000
Construction Services					
Construction Management	1,263,000	1,263,000	-	-	-
Agency Labor	94,000	94,000	-	-	-
Consultant	1,144,000	1,144,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	25,000	25,000	-	-	-
Engineering during Construction	1,100,000	1,100,000	-	-	-
Agency Labor	-	-	-	-	-
Consultant	1,100,000	1,100,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	11,185,000	11,185,000	-	-	-
Construction Contract(s)	11,000,000	11,000,000	-	-	-
Construction by Agency Forces	145,000	145,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	40,000	40,000	-	-	-
Additional Project Delivery Costs	433,000	433,000	-	-	175,000
Permitting	160,000	160,000	-	-	-
Land Acquisition	170,000	170,000	-	-	170,000
Post-construction Monitoring and Mitigation	37,000	37,000	-	-	-
Other Direct Costs	66,000	66,000	-	-	5,000
TOTAL	\$ 15,116,000	\$ 15,116,000	\$ 59,000	\$ 907,000	\$ 353,000

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Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18

CIP No: 200903

Project Title: Castaic Conduit

Legal Name: Castaic Conduit

Description: Construction of a 54-inch diameter pipeline to replace the existing 36-inch and 39-inch diameter sections of the Castaic Conduit Pipeline.

Function: Convey treated water from the treatment plants to various turnouts. Improves the transmission system hydraulics.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Public rights-of-way encroachment and pipeline easements will be obtained during the design phase.

Impacted Facilities: Castaic Conduit Pipeline

CEQA: A Mitigated Negative Declaration was adopted by the Board of Directors on March 9, 2011.

Project Schedule: Complete design in 2019. At that time a decision will be made to proceed or not proceed with construction based on Agency's financial situation. Anticipate project will be constructed within five years.

Projected Fiscal Year Activity: Perform land acquisition.

Projected Impact on Operating Costs: The projected impact on annual operating cost is anticipated to be less than \$5,000.

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Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget

CIP No. 200010

DISTRIBUTION SYSTEM - RV-2 MODIFICATIONS					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 142,000	\$ 142,000	\$ -	\$ 142,000	\$ -
Agency Labor	13,000	13,000	-	13,000	-
Consultant	127,000	127,000	-	127,000	-
Equipment	-	-	-	-	-
Other Direct Costs	2,000	2,000	-	2,000	-
Design (Including Bid Services)	610,000	637,000	95,000	637,000	-
Agency Labor	51,000	52,000	15,000	52,000	-
Consultant	537,000	568,000	79,000	568,000	-
Equipment	-	-	-	-	-
Other Direct Costs	22,000	17,000	1,000	17,000	-
Construction Services					
Construction Management	497,000	386,000	-	-	386,000
Agency Labor	92,000	81,000	-	-	81,000
Consultant	400,000	300,000	-	-	300,000
Equipment	-	-	-	-	-
Other Direct Costs	5,000	5,000	-	-	5,000
Engineering during Construction	200,000	200,000	-	-	200,000
Agency Labor	-	-	-	-	-
Consultant	200,000	200,000	-	-	200,000
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	2,465,000	2,750,000	-	-	2,750,000
Construction Contract(s)	2,400,000	2,700,000	-	-	2,700,000
Construction by Agency Forces	40,000	40,000	-	-	40,000
Equipment	-	-	-	-	-
Other Direct Costs	25,000	10,000	-	-	10,000
Additional Project Delivery Costs	14,000	41,000	27,000	28,000	10,000
Permitting	5,000	5,000	-	-	5,000
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	-	-	-	-	-
Other Direct Costs	9,000	36,000	27,000	28,000	5,000
TOTAL	\$ 3,928,000	\$ 4,156,000	\$ 122,000	\$ 807,000	\$ 3,346,000

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18



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CIP No: 200010

Project Title: Distribution System – RV-2 Modifications

Legal Name: Distribution System – RV-2 Modifications

Description: Replacement of existing 72 inch valve and construction of modifications to the existing Rio Vista Valve #2 facility.

Function: Control treated water system hydraulics. Improves operational flexibility and system reliability.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Easements for the modified facility will be obtained during the design phase.

Impacted Facilities: Rio Vista Valve #2

CEQA: Categorical Exemption (Class 2, Section 15302 of the California Environmental Quality Act Guidelines).

Project Schedule: Complete design in FY 2016/17. Construction to start in FY 2017/18.

Projected Fiscal Year Activity: Perform construction.

Projected Impact on Operating Costs: The projected impact on annual operating cost is anticipated to be less than \$5,000.

Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget

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CIP No. 200105

ESFP CLEARWELL/CT IMPROVEMENTS					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 52,000	\$ 52,000	\$ -	\$ 52,000	-
Agency Labor	1,000	1,000	-	1,000	-
Consultant	50,000	50,000	-	50,000	-
Equipment	-	-	-	-	-
Other Direct Costs	1,000	1,000	-	1,000	-
Design (Including Bid Services)	629,000	662,000	103,000	659,000	-
Agency Labor	45,000	75,000	45,000	75,000	-
Consultant	557,000	557,000	50,000	555,000	-
Equipment	-	-	-	-	-
Other Direct Costs	27,000	30,000	8,000	29,000	-
Construction Services					
Construction Management	1,296,000	1,062,000	-	-	806,000
Agency Labor	151,000	151,000	20,000	20,000	125,000
Consultant	1,134,000	900,000	75,000	75,000	675,000
Equipment	-	-	-	-	-
Other Direct Costs	11,000	11,000	2,000	2,000	6,000
Engineering during Construction	600,000	250,000	-	-	150,000
Agency Labor	-	-	-	-	-
Consultant	600,000	250,000	40,000	40,000	150,000
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	6,279,000	6,389,000	773,000	773,000	4,830,000
Construction Contract(s)	5,790,000	5,900,000	350,000	350,000	4,800,000
Construction by Agency Forces	73,000	73,000	23,000	23,000	25,000
Equipment	-	-	-	-	-
Other Direct Costs	416,000	416,000	400,000	400,000	5,000
Additional Project Delivery Costs	191,000	191,000	-	11,000	-
Permitting	160,000	160,000	-	-	-
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	-	-	-	-	-
Other Direct Costs	31,000	31,000	-	11,000	-
TOTAL	\$ 9,047,000	\$ 8,606,000	\$ 876,000	\$ 1,495,000	\$ 5,786,000

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Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18

CIP No: 200105

Project Title: Earl Schmidt Filtration Plant (ESFP) Clearwell/CT Improvements

Legal Name: ESFP Clearwell/CT Improvements

Description: Construction of a new disinfection contactor to improve disinfection contact time (CT) at the ESFP.

Function: Improves disinfection contact time at ESFP and provides increased assurance of operating permit compliance.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: ESFP property is held in fee by CLWA.

Impacted Facilities: ESFP

CEQA: Categorical Exemption (Class 1, Section 15301 of the California Environmental Quality Act Guidelines).

Project Schedule: Construction activities started in FY 2016/17 and will continue during FY 2017/18.

Projected Fiscal Year Activity: Complete construction of the disinfection contactor.

Projected Impact on Operating Costs: The projected annual operating cost increase is anticipated to be less than \$5,000.

CIP No. 200103

ESFP SLUDGE COLLECTION SYSTEM					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 193,000	\$ 192,000	\$ -	\$ 192,000	\$ -
<i>Agency Labor</i>	18,000	17,000	-	17,000	-
<i>Consultant</i>	170,000	170,000	-	170,000	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	5,000	5,000	-	5,000	-
Design (Including Bid Services)	590,000	651,000	143,000	617,000	34,000
<i>Agency Labor</i>	40,000	33,000	13,000	22,000	11,000
<i>Consultant</i>	532,000	611,000	129,000	593,000	18,000
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	18,000	7,000	1,000	2,000	5,000
Construction Services					
Construction Management	1,158,000	1,158,000	-	-	-
<i>Agency Labor</i>	130,000	130,000	-	-	-
<i>Consultant</i>	1,008,000	1,008,000	-	-	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	20,000	20,000	-	-	-
Engineering during Construction	500,000	500,000	-	-	-
<i>Agency Labor</i>	-	-	-	-	-
<i>Consultant</i>	500,000	500,000	-	-	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	-	-	-	-	-
Capital Construction Costs	7,120,000	12,120,000	-	-	-
<i>Construction Contract(s)</i>	7,000,000	12,000,000	-	-	-
<i>Construction by Agency Forces</i>	100,000	100,000	-	-	-
<i>Equipment</i>	20,000	20,000	-	-	-
Additional Project Delivery Costs	20,000	20,000	-	-	-
<i>Permitting</i>	-	-	-	-	-
<i>Land Acquisition</i>	-	-	-	-	-
<i>Post-construction Monitoring and Mitigation</i>	-	-	-	-	-
<i>Other Direct Costs</i>	20,000	20,000	-	-	-
TOTAL	\$ 9,581,000	\$ 14,641,000	\$ 143,000	\$ 809,000	\$ 34,000

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18

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CIP No: 200103

Project Title: Earl Schmidt Filtration Plant (ESFP) Sludge Collection System

Legal Name: ESFP Sludge Collection System

Description: Construction of new facilities and modifications to existing facilities to upgrade the ESFP wash water return and sludge collection system.

Function: Improves the operational reliability of the wash water return system and the maintenance of the sludge collection system.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Property is held in fee by CLWA.

Impacted Facilities: ESFP

CEQA: Categorical Exemption (Class 1, Section 15301 of the California Environmental Quality Act Guidelines).

Project Schedule: Complete design in FY 2017/18 and complete construction in FY 2019/20.

Projected Fiscal Year Activity: Perform final design and construction bidding.

Projected Impact on Operating Costs: The projected impact on annual operating cost is anticipated to be less than \$8,000.

Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget



CIP No. 200151

ESIPS PIPELINE IMPROVEMENTS					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 112,000	\$ 151,000	\$ 48,000	\$ 151,000	\$ -
<i>Agency Labor</i>	10,000	21,000	11,000	21,000	-
<i>Consultant</i>	100,000	130,000	37,000	130,000	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	2,000	-	-	-	-
Design (Including Bid Services)	245,000	225,000	225,000	225,000	-
<i>Agency Labor</i>	15,000	11,000	11,000	11,000	-
<i>Consultant</i>	225,000	208,000	208,000	208,000	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	5,000	6,000	6,000	6,000	-
Construction Services					
Construction Management	641,000	649,000	-	-	649,000
<i>Agency Labor</i>	73,000	86,000	-	-	86,000
<i>Consultant</i>	558,000	558,000	-	-	558,000
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	10,000	5,000	-	-	5,000
Engineering during Construction	150,000	150,000	-	-	150,000
<i>Agency Labor</i>	-	-	-	-	-
<i>Consultant</i>	150,000	150,000	-	-	150,000
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	-	-	-	-	-
Capital Construction Costs	1,010,000	2,905,000	-	-	2,905,000
<i>Construction Contract(s)</i>	1,000,000	2,900,000	-	-	2,900,000
<i>Construction by Agency Forces</i>	-	-	-	-	-
<i>Other Direct Costs</i>	10,000	5,000	-	-	5,000
Additional Project Delivery Costs	5,000	3,000	1,000	1,000	2,000
<i>Permitting</i>	-	-	-	-	-
<i>Land Acquisition</i>	-	-	-	-	-
<i>Post-construction Monitoring and Mitigation</i>	-	-	-	-	-
<i>Other Direct Costs</i>	5,000	3,000	1,000	1,000	2,000
TOTAL	\$ 2,163,000	\$ 4,083,000	\$ 274,000	\$ 377,000	\$ 3,706,000

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Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18

CIP No: 200151

Project Title: Earl Schmidt Intake Pump Station (ESIPS) Pipeline Improvements

Legal Name: ESIPS Pipeline Improvements

Description: Construction of pipeline improvements to the ESIPS suction and discharge pipelines.

Function: Improve the reliability of the pipelines at the ESIPS.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Property is held in fee by CLWA.

Impacted Facilities: ESIPS

CEQA: Categorical Exemption (Class 1, Section 15301 of the California Environmental Quality Act Guidelines).

Project Schedule: Complete construction in FY 2017/18.

Projected Fiscal Year Activity: Perform construction.

Projected Impact on Operating Costs: No impact on operating costs is anticipated.

Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget



CIP No. 200905

FOOTHILL FEEDER CONNECTION					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ -	\$ -	\$ -	\$ -	\$ -
Agency Labor	-	-	-	-	-
Consultant	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Design (Including Bid Services)	83,000	190,000	11,000	178,000	12,000
Agency Labor	24,000	50,000	10,000	48,000	2,000
Consultant	39,000	120,000	-	114,000	6,000
Equipment	-	-	-	-	-
Other Direct Costs	20,000	20,000	1,000	16,000	4,000
Construction Services					
Construction Management	353,000	519,000	49,000	54,000	465,000
Agency Labor	53,000	56,000	-	5,000	51,000
Consultant	300,000	450,000	45,000	45,000	405,000
Equipment	-	-	-	-	-
Other Direct Costs	-	13,000	4,000	4,000	9,000
Engineering during Construction	295,000	672,000	30,000	385,000	287,000
Agency Labor	32,000	52,000	5,000	5,000	47,000
Consultant	263,000	265,000	25,000	25,000	240,000
Equipment	-	355,000	-	355,000	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	4,351,000	3,596,000	305,000	305,000	3,291,000
Construction Contract(s)	3,738,000	3,000,000	300,000	300,000	2,700,000
Construction by Agency Forces	53,000	56,000	-	-	56,000
Equipment	-	-	-	-	-
Other Direct Costs	560,000	540,000	5,000	5,000	535,000
Additional Project Delivery Costs	226,000	331,000	50,000	50,000	181,000
Permitting	26,000	31,000	-	-	31,000
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	-	150,000	-	-	50,000
Other Direct Costs	200,000	150,000	50,000	50,000	100,000
TOTAL	\$ 5,308,000	\$ 5,308,000	\$ 445,000	\$ 972,000	\$ 4,236,000

Note: Project has been awarded \$1.5 million in State Proposition 84 grant funding.

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18



CIP No:	200905
Project Title:	Foothill Feeder Connection
Legal Name:	Metropolitan Water District of Southern California Foothill Feeder Interconnection CLWA-01
Description:	Construction of a permanent turnout structure known as CLWA-01 consisting of a new concrete valve vault equipped with a 36-inch conical plug valve, a new meter vault equipped with a 36-inch magnetic type flow meter, approximately 200 feet of 48-inch associated piping and electrical and supervisory control and data acquisition (SCADA) telemetry. This facility will replace the current temporary connection, which will be left in place as a back-up.
Function:	Increases capacity of RWWTp deliveries from 93.4 cubic feet per second (cfs), or 60 million gallons per day (MGD), to 140 cfs (90 MGD). Allows RWWTp to receive deliveries at its current permitted operating capacity of 66 MGD and any capacity expansions up to 90 MGD. The current connection would serve as a back-up when the permanent turnout is taken off line for maintenance.
Benefit:	Existing users' share is XX percent and future users' share is XX percent.
Site Requirements:	Public rights-of-way, encroachment and pipeline easements will be obtained prior to construction.
Impacted Facilities:	Raw Water (102-inch) Pipeline and Foothill Feeder Connection (42-inch) pipeline
CEQA:	Environmental Impact Report for the RWWTp Expansion, which includes permanent Foothill Feeder Connection, was certified by the Board of Directors on June 28, 2006, and the Addendum to the Certified EIR was approved on March 11, 2009.
Project Schedule:	Construction will commence in last quarter of FY 2016/17. Completion is dependent on timing of Metropolitan Water District of Southern California's shutdown of Foothill Feeder.
Projected Fiscal Year Activity:	Construction.
Projected Impact on Operating Costs:	No impact on operating costs is anticipated.

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Castaic Lake Water Agency
Capital Improvement Budget
FY 2017/18 Budget

CIP No. XXXXXX

GROUNDWATER TREATMENT IMPROVEMENTS					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	\$ -
Agency Labor	-	5,000	5,000	5,000	-
Consultant	-	5,000	5,000	5,000	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Design (Including Bid Services)	-	155,000	-	-	\$ 155,000
Agency Labor	-	10,000	-	-	10,000
Consultant	-	135,000	-	-	135,000
Equipment	-	-	-	-	-
Other Direct Costs	-	10,000	-	-	10,000
Construction Services	-	-	-	-	-
Construction Management	-	145,000	-	-	73,000
Agency Labor	-	10,000	-	-	5,000
Consultant	-	135,000	-	-	68,000
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Engineering during Construction	-	60,000	-	-	30,000
Agency Labor	-	10,000	-	-	5,000
Consultant	-	50,000	-	-	25,000
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	-	1,493,000	-	-	747,000
Construction Contract(s)	-	1,443,000	-	-	722,000
Construction by Agency Forces	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	50,000	-	-	25,000
Additional Project Delivery Costs	-	70,000	-	-	35,000
Permitting	-	10,000	-	-	5,000
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	-	10,000	-	-	5,000
Other Direct Costs	-	50,000	-	-	25,000
TOTAL	\$ -	\$ 1,933,000	\$ 10,000	\$ 10,000	\$ 1,040,000

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18

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CIP No: XXXXXX

Project Title: Groundwater Treatment Improvement Project

Legal Name: Groundwater Treatment Improvement Project

Description: Design and construction of a liquid granular activated treatment (GAC) process that would remove volatile organic compounds (VOCs) from groundwater pumped from the Saugus wells 1 and 2. The GAC would be installed upstream and in series with the currently operating 2,400 gallon per minute capacity. Saugus Perchlorate Treatment Facility (SPTF), located at the Rio Vista Intake Pump Station (RVIPS).

Function: VOCs would be removed to non-detect levels, consistent with the SPTF's operational goal.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Space is available at the RVIPS adjacent to the SPTF.

Impacted Facilities: Saugus 1 and 2 Wells, SPTF

CEQA: Environmental documentation will be completed in FY 2017/18.

Project Schedule: Design to be completed during FY 2017/18. Construction to begin in FY 207/18 and finish in FY 2018/19.

Projected Fiscal Year Activity: Final design, construction bidding and initiate construction.

Projected Impact on Operating Costs: Once operations commence in FY 2018/19 annual operational costs are estimated at \$40,000 with occasional carbon change-out costs of about \$260,000.

Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget

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CIP No. 200510

HONBY PARALLEL - PHASE 2					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 461,000	\$ 461,000	\$ -	\$ 461,000	-
Agency Labor	20,000	20,000	-	20,000	-
Consultant	435,000	435,000	-	435,000	-
Equipment	-	-	-	-	-
Other Direct Costs	6,000	6,000	-	6,000	-
Design (Including Bid Services)	1,455,000	1,455,000	2,000	881,000	130,000
Agency Labor	85,000	85,000	2,000	57,000	25,000
Consultant	1,342,000	1,342,000	-	817,000	100,000
Equipment	-	-	-	-	-
Other Direct Costs	28,000	28,000	-	7,000	5,000
Construction Services					
Construction Management	1,839,000	1,839,000	-	104,000	-
Agency Labor	141,000	141,000	-	5,000	-
Consultant	1,682,000	1,682,000	-	98,000	-
Equipment	-	-	-	-	-
Other Direct Costs	16,000	16,000	-	1,000	-
Engineering during Construction	1,292,000	1,292,000	-	92,000	-
Agency Labor	-	-	-	-	-
Consultant	1,292,000	1,292,000	-	92,000	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	15,153,000	15,153,000	-	53,000	-
Construction Contract(s)	15,000,000	15,000,000	-	-	-
Construction by Agency Forces	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	153,000	153,000	-	53,000	-
Additional Project Delivery Costs	1,244,000	1,244,000	394,000	909,000	-
Permitting	159,000	159,000	-	-	-
Land Acquisition	10,000	10,000	-	-	-
Post-construction Monitoring and Mitigation	50,000	50,000	-	-	-
Other Direct Costs	1,025,000	1,025,000	394,000	909,000	-
TOTAL	\$ 21,444,000	\$ 21,444,000	\$ 396,000	\$ 2,500,000	\$ 130,000

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18



CIP No: 200510

Project Title: Honby Parallel – Phase 2

Legal Name: Honby Parallel

Description: Construction of a 60-inch diameter pipeline to replace the existing 33-inch and 36-inch diameter pipelines from the end of the Honby Parallel Phase 1 pipeline to the Sand Canyon Pump Station.

Function: Convey treated water to the eastern portion of the service area. Improves the transmission system hydraulics.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Public rights-of-way encroachment and pipeline easements will be obtained during the design phase.

Impacted Facilities: Honby Lateral and Bypass Pipelines

CEQA: An Environmental Impact Report was certified by the Board of Directors on July 13, 2005.

Project Schedule: Anticipate project will be constructed mid-2022.

Projected Fiscal Year Activity: Right-of-way acquisition and project administration.

Projected Impact on Operating Costs: The projected impact on annual operating cost is anticipated to be less than \$5,000.

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Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget

CIP No. 200525

MAGIC MOUNTAIN PIPELINE NO. 4					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 5,000	\$ 5,000	\$ -	\$ 5,000	\$ -
Agency Labor	5,000	5,000	-	5,000	-
Consultant	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Design (Including Bid Services)	143,000	163,000	-	88,000	75,000
Agency Labor	18,000	9,000	-	6,000	3,000
Consultant	117,000	148,000	-	81,000	67,000
Equipment	-	-	-	-	-
Other Direct Costs	8,000	6,000	-	1,000	5,000
Construction Services					
Construction Management	201,000	201,000	-	-	-
Agency Labor	32,000	32,000	-	-	-
Consultant	164,000	164,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	5,000	5,000	-	-	-
Engineering during Construction	100,000	100,000	-	-	-
Agency Labor	-	-	-	-	-
Consultant	100,000	100,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	3,005,000	3,005,000	-	-	-
Construction Contract(s)	3,000,000	3,000,000	-	-	-
Construction by Agency Forces	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	5,000	5,000	-	-	-
Additional Project Delivery Costs	5,000	5,000	-	-	-
Permitting	-	-	-	-	-
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	-	-	-	-	-
Other Direct Costs	5,000	5,000	-	-	-
TOTAL	\$ 3,459,000	\$ 3,479,000	\$ -	\$ 93,000	\$ 75,000

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18



CIP No: 200525

Project Title: Magic Mountain Pipeline No. 4

Legal Name: Lateral Extension and Storage II

Description: Construction of a pipeline and reservoir to convey imported water from the end of the existing Magic Mountain Pipeline, Phase 3 to the beginning of the proposed Magic Mountain Pipeline, Phase 5.

Function: Provides facilities for CLWA to convey imported water to the western portion of the service area.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Pipeline will be constructed in public rights-of-way and easements.

Impacted Facilities: This project includes a tie-in to the existing Magic Mountain Pipeline, Phase 3.

CEQA: Notice of Determination filed in FY 2014/15.

Project Schedule: Design to be completed in FY 2017/18 and construction in FY 2018/19.

Projected Fiscal Year Activity: Perform final design.

Projected Impact on Operating Costs: The projected impact on annual operating costs is anticipated to be less than \$5,000.

Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget

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CIP No. 200526

MAGIC MOUNTAIN PIPELINE NO. 5					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Agency Labor</i>	-	-	-	-	-
<i>Consultant</i>	-	-	-	-	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	-	-	-	-	-
Design (Including Bid Services)	141,000	141,000	1,000	20,000	23,000
<i>Agency Labor</i>	25,000	25,000	1,000	2,000	2,000
<i>Consultant</i>	110,000	110,000	-	18,000	20,000
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	6,000	6,000	-	-	1,000
Construction Services					
Construction Management	201,000	201,000	-	-	-
<i>Agency Labor</i>	50,000	50,000	-	-	-
<i>Consultant</i>	146,000	146,000	-	-	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	5,000	5,000	-	-	-
Engineering during Construction	100,000	100,000	-	-	-
<i>Agency Labor</i>	-	-	-	-	-
<i>Consultant</i>	100,000	100,000	-	-	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	-	-	-	-	-
Capital Construction Costs	3,310,000	3,310,000	-	-	-
<i>Construction Contract(s)</i>	3,300,000	3,300,000	-	-	-
<i>Construction by Agency Forces</i>	-	-	-	-	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	10,000	10,000	-	-	-
Additional Project Delivery Costs	10,000	10,000	-	-	-
<i>Permitting</i>	-	-	-	-	-
<i>Land Acquisition</i>	-	-	-	-	-
<i>Post-construction Monitoring and Mitigation</i>	-	-	-	-	-
<i>Other Direct Costs</i>	10,000	10,000	-	-	-
TOTAL	\$ 3,762,000	\$ 3,762,000	\$ 1,000	\$ 20,000	\$ 23,000

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18

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CIP No: 200526

Project Title: Magic Mountain Pipeline No. 5

Legal Name: Lateral Extension and Storage II

Description: Construction of a pipeline to convey imported water from the end of the proposed Magic Mountain Pipeline, Phase 4 to the beginning of the proposed Magic Mountain Pipeline, Phase 6.

Function: Provides facilities for CLWA to convey imported water to the western portion of the service area.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Pipeline will be constructed in public rights-of-way and easements.

Impacted Facilities: This project includes a tie-in to the proposed Magic Mountain Pipeline, Phase 4.

CEQA: Notice of Determination filed in FY 2014/15.

Project Schedule: Design to be completed in FY 2018/19 and construction in FY 2019/20.

Projected Fiscal Year Activity: Perform final design.

Projected Impact on Operating Costs: The projected impact on annual operating costs is anticipated to be less than \$5,000.

Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget

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CIP No. 200527

MAGIC MOUNTAIN PIPELINE NO. 6					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ -	\$ -	\$ -	\$ -	\$ -
Agency Labor	-	-	-	-	-
Consultant	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Design (Including Bid Services)	300,000	300,000	-	1,000	4,000
Agency Labor	19,000	19,000	-	1,000	3,000
Consultant	275,000	275,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	6,000	6,000	-	-	1,000
Construction Services					
Construction Management	341,000	341,000	-	-	-
Agency Labor	86,000	86,000	-	-	-
Consultant	250,000	250,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	5,000	5,000	-	-	-
Engineering during Construction	200,000	200,000	-	-	-
Agency Labor	-	-	-	-	-
Consultant	200,000	200,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	8,025,000	8,025,000	-	-	-
Construction Contract(s)	8,000,000	8,000,000	-	-	-
Construction by Agency Forces	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	25,000	25,000	-	-	-
Additional Project Delivery Costs	10,000	10,000	-	-	-
Permitting	-	-	-	-	-
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	-	-	-	-	-
Other Direct Costs	10,000	10,000	-	-	-
TOTAL	\$ 8,876,000	\$ 8,876,000	\$ -	\$ 1,000	\$ 4,000

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18



CIP No: 200527

Project Title: Magic Mountain Pipeline No. 6

Legal Name: Lateral Extension and Storage II

Description: Construction of a pipeline to convey imported water from the end of the proposed Magic Mountain Pipeline, Phase 5 to the proposed Magic Mountain Reservoir site.

Function: Provides facilities for CLWA to convey imported water to the western portion of the service area.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: To be determined during the design phase.

Impacted Facilities: This project includes a tie-in to the proposed Magic Mountain Pipeline, Phase 5.

CEQA: Notice of Determination filed in FY 2014/15.

Project Schedule: Design to be completed in FY 2019/20 and construction in FY 2020/21.

Projected Fiscal Year Activity: Project administration.

Projected Impact on Operating Costs: The projected impact on annual operating costs is anticipated to be less than \$5,000.

Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget

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CIP No. 200528

MAGIC MOUNTAIN RESERVOIR					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 137,000	\$ 385,000	\$ 55,000	\$ 59,000	\$ 211,000
Agency Labor	21,000	21,000	4,000	5,000	6,000
Consultant	105,000	353,000	50,000	53,000	200,000
Equipment	-	-	-	-	-
Other Direct Costs	11,000	11,000	1,000	1,000	5,000
Design (Including Bid Services)	2,098,000	2,781,000	-	-	-
Agency Labor	33,000	66,000	-	-	-
Consultant	2,050,000	2,700,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	15,000	15,000	-	-	-
Construction Services					
Construction Management	2,659,000	4,102,000	-	-	-
Agency Labor	129,000	172,000	-	-	-
Consultant	2,500,000	3,900,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	30,000	30,000	-	-	-
Engineering during Construction	2,000,000	2,600,000	-	-	-
Agency Labor	-	-	-	-	-
Consultant	2,000,000	2,600,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	20,105,000	27,805,000	-	-	-
Construction Contract(s)	20,000,000	27,700,000	-	-	-
Construction by Agency Forces	75,000	75,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	30,000	30,000	-	-	-
Additional Project Delivery Costs	120,000	270,000	-	-	-
Permitting	-	-	-	-	-
Land Acquisition	100,000	250,000	-	-	-
Post-construction Monitoring and Mitigation	-	-	-	-	-
Other Direct Costs	20,000	20,000	-	-	-
TOTAL	\$ 27,119,000	\$ 37,943,000	\$ 55,000	\$ 59,000	\$ 211,000

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18



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CIP No: 200528

Project Title: Magic Mountain Reservoir

Legal Name: Lateral Extension and Storage II

Description: Construction of 12.5 MG reservoir for the western portion of the service area.

Function: Provides facilities for CLWA to store imported water for the western portion of the service area.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Reservoir will be constructed on property obtained in fee.

Impacted Facilities: This project includes a tie-in to the proposed Magic Mountain Pipeline, Phase 6.

CEQA: Environmental documentation requirements will be addressed during the planning phase over the next two years.

Project Schedule: Planning and preliminary design to be completed in FY 2018/19, final design to be completed in FY 2020/21, and construction to be completed FY 2022/23.

Projected Fiscal Year Activity: Perform planning and preliminary design.

Projected Impact on Operating Costs: To be determined during the planning phase.

CIP No. 200453

RECYCLED WATER PROGRAM PHASE 2A - CENTRAL PARK					
Category	FY 2016/17 Estimated Total Project Cost ^(a)	Current Estimated Total Project Cost ^{(b)(c)}	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 295,000	\$ 295,000	\$ 26,000	\$ 226,000	\$ 17,000
Agency Labor	40,000	40,000	4,000	30,000	10,000
Consultant	210,000	210,000	22,000	157,000	5,000
CEQA	-	-	-	-	-
Refining users, hydraulics, and phases	-	-	-	-	-
Site Investigations and Preliminary Design	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	45,000	45,000	-	39,000	2,000
Design (Including Bid Services)	1,522,000	1,522,000	1,000	26,000	-
Agency Labor	195,000	195,000	1,000	10,000	-
Consultant	1,300,000	1,300,000	-	16,000	-
Equipment	-	-	-	-	-
Other Direct Costs	27,000	27,000	-	3,000	-
Construction Services					
Construction Management	577,000	577,000	-	-	-
Agency Labor	111,000	111,000	-	-	-
Consultant	450,000	450,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	16,000	16,000	-	-	-
Engineering during Construction	425,000	425,000	-	-	-
Agency Labor	-	-	-	-	-
Consultant	425,000	425,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	10,520,000	10,520,000	-	-	-
Construction Contract(s)	10,500,000	10,500,000	-	-	-
Construction by Agency Forces	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	20,000	20,000	-	-	-
Additional Project Delivery Costs	55,000	55,000	-	-	-
Permitting	25,000	25,000	-	-	-
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	15,000	15,000	-	-	-
Other Direct Costs	15,000	15,000	-	-	-
TOTAL	\$ 13,394,000	\$ 13,394,000	\$ 27,000	\$ 252,000	\$ 17,000

^(a) FY 2017/18 Estimated Total Project Cost includes both backbone and distribution system cost estimates as of February 2017.

^(b) Current Estimated Total Project Cost represents CLWA's share of estimated project costs (backbone system only) as of February 2017.

^(c) As of February 2017, total estimated project cost for Phase 2A = \$16,755,000. CLWA's share of Phase 2A project cost = \$13,394,000. Cost estimate does not include a storage tank (Tankless approach)

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18



CIP No: 200453

Project Title: Central Park (Phase 2A)

Legal Name: Recycled Water Program Phase II

Description: Construction of new facilities to expand recycled water service from the Valencia Water Reclamation Plant to Central Park, central Valencia and Saugus portions of the service area.

Function: Expand recycled water service to additional water customers.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Rio Vista Water Treatment Plant (RVWTP) site, public rights-of-way encroachments, and easements or land purchases that will be obtained during the design phase.

Impacted Facilities: RVWTP and Recycled Water Pump Station

CEQA: Programmatic Environmental Impact report is being updated. A project specific environmental document will be prepared in conformance with the California Environmental Quality Act.

Project Schedule: Anticipate project will be constructed within six to eight years.

Projected Fiscal Year Activity: Project administration.

Projected Impact on Operating Costs: The projected impact on annual operating cost is anticipated to be approximately \$75,000.

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Castaic Lake Water Agency
Capital Improvement Budget
FY 2017/18 Budget

CIP No. 200454

RECYCLED WATER PROGRAM PHASE 2B - VISTA CANYON					
Category	FY 2016/17 Estimated Total Project Cost ^(a)	Current Estimated Total Project Cost ^{(b)(c)}	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 168,000	\$ 168,000	\$ 20,000	\$ 100,000	-
Agency Labor	30,000	30,000	-	18,000	-
Consultant	130,000	130,000	20,000	82,000	-
CEQA	-	-	-	-	-
Refining users, hydraulics, and phases	-	-	-	-	-
Site Investigations and Preliminary Design	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	8,000	8,000	-	-	-
Design (Including Bid Services)	545,000	545,000	26,000	60,000	369,000
Agency Labor	75,000	75,000	6,000	28,000	40,000
Consultant	450,000	450,000	20,000	32,000	325,000
Equipment	-	-	-	-	-
Other Direct Costs	20,000	20,000	-	-	4,000
Construction Services					
Construction Management	267,000	267,000	-	-	-
Agency Labor	75,000	75,000	-	-	-
Consultant	152,000	152,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	40,000	40,000	-	-	-
Engineering during Construction	152,000	152,000	-	-	-
Agency Labor	-	-	-	-	-
Consultant	152,000	152,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	3,940,000	3,940,000	-	-	-
Construction Contract(s)	3,900,000	3,900,000	-	-	-
Construction by Agency Forces	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	40,000	40,000	-	-	-
Additional Project Delivery Costs	22,000	22,000	-	-	-
Permitting	10,000	10,000	-	-	-
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	-	-	-	-	-
Other Direct Costs	12,000	12,000	-	-	-
TOTAL	\$ 5,094,000	\$ 5,094,000	\$ 46,000	\$ 160,000	\$ 369,000

^(a) FY 2017/18 Estimated Total Project Cost includes both backbone and distribution system cost estimates as of May 2015.

^(b) Current Estimated Total Project Cost represents CLWA's share of estimated project costs (backbone system only) as of February 2017.

^(c) As of February 2017, total estimated project cost for Phase 2B = \$6,525,000. CLWA's share of Phase 2B project cost = \$5,094,000.

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Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18

CIP No: 200454

Project Title: Vista Canyon (Phase 2B)

Legal Name: Recycled Water Program Phase II

Description: Construction of new facilities to expand recycled water service from proposed Vista Canyon Water Factory to customers in eastern portion of service area.

Function: Expand recycled water service to additional water customers.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Public rights-of-way encroachments, and easements or land purchases that will be identified during the planning phase.

Impacted Facilities: None

CEQA: Programmatic Environmental Impact report is being updated. A project specific environmental document will be prepared in conformance with the California Environmental Quality Act.

Project Schedule: Anticipate project will be constructed within two years.

Projected Fiscal Year Activity: Complete final design.

Projected Impact on Operating Costs: The projected impact on annual operating cost is anticipated to be approximately \$75,000.

Castaic Lake Water Agency
Capital Improvement Budget
FY 2017/18 Budget

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CIP No. 200455

RECYCLED WATER PROGRAM PHASE 2C - SOUTH END					
Category	FY 2016/17 Estimated Total Project Cost ^(a)	Current Estimated Total Project Cost ^{(b)(c)}	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 505,000	\$ 505,000	\$ 27,000	\$ 386,000	24,000
Agency Labor	50,000	50,000	2,000	22,000	-
Consultant	445,000	445,000	25,000	363,000	20,000
CEQA	-	-	-	-	-
Refining users, hydraulics, and phases	-	-	-	-	-
Site Investigations and Preliminary Design	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	10,000	10,000	-	1,000	4,000
Design (Including Bid Services)	1,257,000	1,257,000	2,000	10,000	429,000
Agency Labor	140,000	140,000	2,000	10,000	25,000
Consultant	1,100,000	1,100,000	-	-	400,000
Equipment	-	-	-	-	-
Other Direct Costs	17,000	17,000	-	-	4,000
Construction Services					
Construction Management	495,000	620,000	-	-	-
Agency Labor	110,000	110,000	-	-	-
Consultant	375,000	500,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	10,000	10,000	-	-	-
Engineering during Construction	375,000	250,000	-	-	-
Agency Labor	-	-	-	-	-
Consultant	375,000	250,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	11,410,000	11,410,000	-	-	-
Construction Contract(s)	11,400,000	11,400,000	-	-	-
Construction by Agency Forces	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	10,000	10,000	-	-	-
Additional Project Delivery Costs	340,000	340,000	-	-	-
Permitting	20,000	20,000	-	-	-
Land Acquisition	300,000	300,000	-	-	-
Post-construction Monitoring and Mitigation	10,000	10,000	-	-	-
Other Direct Costs	10,000	10,000	-	-	-
TOTAL	\$ 14,382,000	\$ 14,382,000	\$ 29,000	\$ 396,000	\$ 453,000

^(a) FY 2017/18 Estimated Total Project Cost includes both backbone and distribution system cost estimates as of May 2015.

^(b) Current Estimated Total Project Cost represents CLWA's share of estimated project costs (backbone system only) as of February 2017.

^(c) As of February 2017, total estimated project cost for Phase 2C = \$17,250,000. CLWA's share of Phase 2C project cost = \$14,382,000.

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18

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CIP No: 200455

Project Title: South End (Phase 2C)

Legal Name: Recycled Water Program Phase II

Description: Construction of new facilities to expand recycled water service from the Valencia Water Reclamation Plant toward the south end of the service area.

Function: Expand recycled water service to additional water customers.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Public rights-of-way encroachments, and easements or land purchases that will be identified during the planning phase.

Impacted Facilities: Recycled Water Pipeline and Recycled Water Pump Station

CEQA: Programmatic Environmental Impact report is being updated. A project specific environmental document will be prepared in conformance with the California Environmental Quality Act.

Project Schedule: Anticipate project will be constructed within four years.

Projected Fiscal Year Activity: Initiate final design, and complete CEQA documentation.

Projected Impact on Operating Costs: The projected impact on annual operating cost is anticipated to be approximately \$75,000.

CIP No. 200456

RECYCLED WATER PROGRAM PHASE 2D - WEST RANCH					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost ^{(a)(b)}	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 190,000	\$ 190,000	\$ 34,000	\$ 138,000	12,000
Agency Labor	50,000	50,000	4,000	8,000	5,000
Consultant	135,000	135,000	30,000	130,000	5,000
CEQA	-	-	-	-	-
Refining users, hydraulics, and phases	-	-	-	-	-
Site Investigations and Preliminary Design	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	5,000	5,000	-	-	2,000
Design (Including Bid Services)	395,000	395,000	4,000	-	383,000
Agency Labor	35,000	35,000	4,000	-	25,000
Consultant	350,000	350,000	-	-	350,000
Equipment	-	-	-	-	-
Other Direct Costs	10,000	10,000	-	-	8,000
Construction Services					
Construction Management	170,000	170,000	-	-	-
Agency Labor	45,000	45,000	-	-	-
Consultant	120,000	120,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	5,000	5,000	-	-	-
Engineering during Construction	120,000	120,000	-	-	-
Agency Labor	-	-	-	-	-
Consultant	120,000	120,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	1,950,000	1,550,000	-	-	-
Construction Contract(s)	1,900,000	1,500,000	-	-	-
Construction by Agency Forces	30,000	30,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	20,000	20,000	-	-	-
Additional Project Delivery Costs	40,000	40,000	-	-	-
Permitting	25,000	25,000	-	-	-
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	15,000	15,000	-	-	-
Other Direct Costs	-	-	-	-	-
TOTAL	\$ 2,865,000	\$ 2,465,000	\$ 38,000	\$ 138,000	\$ 395,000

^(a) Current Estimated Total Project Cost represents CLWA's share of estimated project costs (backbone system only) as of April 2016.

^(b) As of February 2017, total estimated project cost for Phase 2D = \$4,585,000. CLWA's share of Phase 2D project cost = \$2,465,000.

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18

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CIP No: 200456

Project Title: West Ranch (Phase 2D)

Legal Name: Recycled Water Program Phase II

Description: Construction of new facilities to expand recycled water service from the Recycled Water Reservoir #1 toward the west end of the service area.

Function: Expand recycled water service to additional water customers.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Public rights-of-way encroachments, and easements or land purchases that will be identified during the planning phase.

Impacted Facilities: Recycled Water Pipeline and Pump Station

CEQA: Programmatic Environmental Impact report is being updated. A project specific environmental document will be prepared in conformance with the California Environmental Quality Act.

Project Schedule: Anticipate project will be constructed by 2019.

Projected Fiscal Year Activity: Complete final design.

Projected Impact on Operating Costs: The projected impact on annual operating cost is anticipated to be approximately \$75,000.

Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget

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CIP No. 200962

REPLACEMENT WELLS					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 150,000	\$ 173,000	\$ 53,000	\$ 173,000	\$ -
Agency Labor	25,000	44,000	16,000	44,000	-
Consultant	120,000	129,000	37,000	129,000	-
Equipment	-	-	-	-	-
Other Direct Costs	5,000	-	-	-	-
Design (Including Bid Services)	450,000	435,000	32,000	115,000	\$ 320,000
Agency Labor	25,000	35,000	2,000	10,000	25,000
Consultant	375,000	350,000	25,000	100,000	250,000
Equipment	-	-	-	-	-
Other Direct Costs	50,000	50,000	5,000	5,000	45,000
Construction Services					
Construction Management	300,000	300,000	-	-	-
Agency Labor	25,000	25,000	-	-	-
Consultant	250,000	250,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	25,000	25,000	-	-	-
Engineering during Construction	125,000	180,000	-	-	-
Agency Labor	25,000	30,000	-	-	-
Consultant	100,000	150,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	9,250,000	8,691,000	-	-	-
Construction Contract(s)	9,000,000	8,441,000	-	-	-
Construction by Agency Forces	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	250,000	250,000	-	-	-
Additional Project Delivery Costs	375,000	-	-	-	-
Permitting	-	-	-	-	-
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	-	-	-	-	-
Other Direct Costs	375,000	-	-	-	-
TOTAL	\$ 10,650,000	\$ 9,779,000	\$ 85,000	\$ 288,000	\$ 320,000

Note: The Budget for Replacement Wells is subject to reimbursement under the perchlorate settlement agreement. Reimbursement takes place in subsequent fiscal year.

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18

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CIP No: 200962

Project Title: Replacement Wells

Legal Name: Replacement Wells and Associated Pipelines

Description: Two wells capable of producing water at the combined rate of 4,200 gallons per minute and associated pipeline to convey the water pumped from the wells to the Agency's distribution system. Project may be performed in conjunction with Project 200963: *Saugus Formation Dry Year Reliability Wells*.

Function: Provide water to make up production lost from closure of wells impacted by perchlorate contamination not already provided by other new or rehabilitated wells.

Benefit: Existing users' share is XX percent and future users' share is XX percent. Most or all of costs will be borne by Whittaker Corporation

Site Requirements: Site(s) will be provided by Newhall Land. The recommended well sites are near the Old Road between Magic Mountain Parkway and Highway 126.

Impacted Facilities: TBD

CEQA: Environmental documentation will be completed in 2017.

Project Schedule: Design to be completed during FY 2017/18. Construction will take place in FY 2018/19 and may extend into FY 2019/20.

Projected Fiscal Year Activity: Final design and right of way acquisitions.

Projected Impact on Operating Costs: Operating costs anticipated to be similar to current costs of \$180/AF for Saugus 1 and 2 wells. Operations will begin in 2019.



CIP No. 200011

RVWTP CLEARWELL COVER IMPROVEMENTS					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 100,900	\$ 100,900	\$ -	\$ 100,900	\$ -
<i>Agency Labor</i>	18,000	18,000	-	18,000	-
<i>Consultant</i>	82,800	82,800	-	82,800	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	100	100	-	100	-
Design (Including Bid Services)	611,800	618,000	300	618,000	-
<i>Agency Labor</i>	57,800	58,000	300	58,000	-
<i>Consultant</i>	546,600	552,600	-	552,600	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	7,400	7,400	-	7,400	-
Construction Services					
Construction Management	1,259,800	1,177,100	6,100	1,177,100	-
<i>Agency Labor</i>	213,800	175,400	5,500	175,400	-
<i>Consultant</i>	1,028,000	983,700	600	983,700	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	18,000	18,000	-	18,000	-
Engineering during Construction	531,000	595,800	5,100	595,800	-
<i>Agency Labor</i>	-	400	-	400	-
<i>Consultant</i>	531,000	595,400	5,100	595,400	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	-	-	-	-	-
Capital Construction Costs	7,674,600	7,692,700	100	7,692,700	-
<i>Construction Contract(s)</i>	7,620,700	7,633,400	-	7,633,400	-
<i>Construction by Agency Forces</i>	9,200	12,400	-	12,400	-
<i>Equipment</i>	-	-	-	-	-
<i>Other Direct Costs</i>	44,700	46,900	100	46,900	-
Additional Project Delivery Costs	231,700	119,000	91,300	119,000	-
<i>Permitting</i>	196,000	100,200	85,600	100,200	-
<i>Land Acquisition</i>	-	-	-	-	-
<i>Post-construction Monitoring and Mitigation</i>	-	-	-	-	-
<i>Other Direct Costs</i>	35,700	18,800	5,700	18,800	-
TOTAL	\$ 10,409,800	\$ 10,303,500	\$ 102,900	\$ 10,303,500	\$ -

Note: Project was awarded \$1,012,000 in Federal EPA grant funding. Funds received during FY 2014/15.

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18



CIP No: 200011

Project Title: Rio Vista Water Treatment Plant (RVWTP) Clearwell Cover Improvements

Legal Name: RVWTP Floating Cover

Description: Replacement of the two clearwell covers at the Rio Vista Water Treatment Plant.

Function: Provide water quality protection to the treated water in the clearwells. Maintains treated water quality in the clearwells.

Benefit: Existing users' share is XX percent.

Site Requirements: Property held in fee by CLWA.

Impacted Facilities: RVWTP

CEQA: Categorical Exemption (Class 1, Section 15301 of the California Environmental Quality Act Guidelines).

Project Schedule: Construction completed in FY 2015/16, the tracer study to determine a disinfection contact time to hydraulic detention time ratio of the refurbished clearwells conducted in July 2016 and updated Operation Permit issued by the California State Water Resources Control Board Division of Drinking Water in October 2016 to comply with the requirements.

Projected Fiscal Year Activity: None

Projected Impact on Operating Costs: The projected impact on annual operating cost is anticipated to be less than \$5,000.

Castaic Lake Water Agency
 Capital Improvement Budget
 FY 2017/18 Budget



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CIP No. 200963

SAUGUS FORMATION DRY YEAR RELIABILITY WELLS					
Category	FY 2016/17 Estimated Total Project Cost	Current Estimated Total Project Cost	FY 2016/17 Estimated Expenditures	Cumulative Estimated Expenditures through June 30, 2017	FY 2017/18 Budget
Planning and Conceptual Design	\$ 150,000	\$ 166,000	\$ 59,000	\$ 166,000	\$ -
Agency Labor	25,000	43,000	16,000	43,000	-
Consultant	120,000	122,000	43,000	122,000	-
Equipment	-	-	-	-	-
Other Direct Costs	5,000	1,000	-	1,000	-
Design (Including Bid Services)	450,000	433,000	32,000	113,000	\$ 320,000
Agency Labor	25,000	33,000	2,000	8,000	25,000
Consultant	375,000	350,000	25,000	100,000	250,000
Equipment	-	-	-	-	-
Other Direct Costs	50,000	50,000	5,000	5,000	45,000
Construction Services					
Construction Management	300,000	300,000	-	-	-
Agency Labor	25,000	25,000	-	-	-
Consultant	250,000	250,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	25,000	25,000	-	-	-
Engineering during Construction	125,000	180,000	-	-	-
Agency Labor	25,000	30,000	-	-	-
Consultant	100,000	150,000	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	-	-	-	-	-
Capital Construction Costs	11,250,000	8,422,000	-	-	-
Construction Contract(s)	11,000,000	8,172,000	-	-	-
Construction by Agency Forces	-	-	-	-	-
Equipment	-	-	-	-	-
Other Direct Costs	250,000	250,000	-	-	-
Additional Project Delivery Costs	375,000	-	-	-	-
Permitting	-	-	-	-	-
Land Acquisition	-	-	-	-	-
Post-construction Monitoring and Mitigation	-	-	-	-	-
Other Direct Costs	375,000	-	-	-	-
TOTAL	\$ 12,650,000	\$ 9,501,000	\$ 91,000	\$ 279,000	\$ 320,000

Note: Project has been awarded \$4.7 million in State Proposition 84 grant funding.

Castaic Lake Water Agency
Capital Improvement Project
FY 2017/18



CIP No: 200963

Project Title: Saugus Formation Dry Year Reliability Wells

Legal Name: Saugus Formation Dry Year Reliability Wells

Description: Two wells capable of producing water at the combined rate of 4,200 gallons per minute and associated pipeline to convey the water pumped from the wells to the Agency's distribution system. Project may be performed in conjunction with Project 200962: *Replacement Wells*.

Function: Provide water to make up production lost during dry periods when surface water deliveries from the State Water Project and water banks would be drastically curtailed.

Benefit: Existing users' share is XX percent and future users' share is XX percent.

Site Requirements: Site(s) will be provided by Newhall Land. The recommended well sites are near the Old Road between Magic Mountain Parkway and Highway 126.

Impacted Facilities: TBD

CEQA: Environmental documentation requirements will be completed in 2017.

Project Schedule: Design to be completed during FY 2017/18. Construction will take place in FY 2018/19 and may extend into FY 2019/20.

Projected Fiscal Year Activity: Final design and right of way acquisitions.

Projected Impact on Operating Costs: Operating costs anticipated to be similar to current costs of \$180/AF for Saugus 1 and 2 wells. Operations will begin in 2019.

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Castaic Lake Water Agency Memorandum

March 23, 2017

To: CLWA Planning and Engineering Committee
From: Brian J. Folsom *BJF*
Engineering and Operations Manager
Subject: Proposed FY 2017/18 Action Items

SUMMARY AND DISCUSSION

Attached are the proposed Actions for the Engineering and Operations Department for FY 2017/18 for review and consideration.

BJF

Attachments

MGS

FY 2017/18 ACTIONS*Engineering***Major Actions**

- ◆ Initiate construction of the Distribution System – RV-2 Modifications Project [8/17]. P1
- ◆ Initiate design of Groundwater Treatment Improvement Project [9/17]. P1
- ◆ Initiate planning and preliminary design of the Sand Canyon Reservoir Expansion Project [10/17]. P1
- ◆ Initiate planning and preliminary design of the Southern Service Area Reservoir Project [10/17]. P1
- ◆ Complete design of the Earl Schmidt Intake Pump Station Pipeline Improvements Project [10/17]. P1
- ◆ Initiate construction of the Earl Schmidt Intake Pump Station Pipeline Improvements Project [11/17]. P1
- ◆ Complete land acquisition and final design of the Vista Canyon Recycled Water Project (Phase 2B) [12/17]. P1
- ◆ Complete planning and environmental compliance document for South End Recycled Water Project (Phase 2C) [12/17]. P1
- ◆ Complete final design for the West Ranch Recycled Water Project (Phase 2D) [12/17]. P1
- ◆ Complete design of the Replacement Wells and Dry Year Reliability Wells [12/17]. P1
- ◆ Complete land acquisition for Castaic Conduit Project [12/17]. P1
- ◆ Complete construction of SPTF Pressure Modifications [12/17]. P1
- ◆ Complete 2017 Facility Capacity Fee (FCF) Study and adopt new FCFs [12/17]. P1
- ◆ Complete inspection of the Castaic Conduit Pipeline Reach 3 and Reach 4 [2/18]. P2
- ◆ Complete inspection of the ESFP Raw Water pipeline [3/18]. P2
- ◆ Complete inspection of the RVWTP Raw Water pipeline [4/18]. P2
- ◆ Finalize and adopt the Recycled Water Master Plan [6/18]. P1

Long Term Actions

- ◆ *Complete the biennial update of the Facility Capacity Fee Study and adopt new Facility Capacity Fees [every two years].*
- ◆ *Initiate construction of the Magic Mountain Pipeline Phase 4 Project [2018].*
- ◆ *Initiate construction of the Earl Schmidt Sludge Collection System Project [2018].*
- ◆ *Complete Saugus Formation Replacement Wells and Dry Year Reliability ("Red-Handled") Wells Project [2019].*
- ◆ *Initiate construction of the Magic Mountain Pipeline Phase 5 Project [2019].*
- ◆ *Complete design of the Castaic Conduit Bypass Project [2019].*
- ◆ *Initiate construction of the Castaic Conduit Bypass Project [2019].*
- ◆ *Initiate construction of the Recycled Water South End Project (Phase 2C) [2019].*
- ◆ *Initiate construction of the Magic Mountain Pipeline Phase 6 Project [2020].*
- ◆ *Initiate construction of the Honby Parallel Pipeline Phase 2 Project [2020].*
- ◆ *Initiate construction of the Magic Mountain Reservoir Project [2021].*
- ◆ *Initiate construction of the Sand Canyon Reservoir Expansion Project [2021].*
- ◆ *Initiate construction of the Southern Service Area Reservoir Project [2021].*
- ◆ *Continue development of GIS program capabilities and acquisition of GIS data [ongoing].*

FY 2017/18 ACTIONS*Maintenance***Major Actions**

- ◆ Replace regulatory pressure relief valves at ESFP and RWWTP [7/17]. P1
- ◆ Repair back gate access road at ESFP [7/17]. P1
- ◆ Replace ammonia pumping system at ESFP [7/17]. P1
- ◆ Repair/recoat ESFP clear wells interior coating [8/17]. P1
- ◆ Replace NTU analyzers at RWWTP and ESFP [10/17]. P2
- ◆ Install replacement valves for bag filters (4) and equalization tank at Saugus Perchlorate Treatment Facility [12/17]. P2
- ◆ Replace three Ozone residual analyzers at ESFP [12/17]. P2
- ◆ Replace two ammonia pumps at SPTF [12/17]. P1
- ◆ Replace all valves on treatment vessels at SPTF [12/17]. P1
- ◆ Replace isolation valves for backwash pump at Rio Vista Water Treatment Plant [3/18]. P2
- ◆ Replace Clarifier 54" flow meter at ESFP [3/18]. P2
- ◆ Replace 48" Treated Water Pipeline flow meter at ESFP [3/18]. P2
- ◆ Replace sludge check valves at ESFP [5/18]. P3
- ◆ Repair/replace 4 cathodic test stations in distribution system [5/18]. P3
- ◆ Ensure the Division budget is appropriately expended by actively managing and controlling expenditures [ongoing].
- ◆ Continue acquiring and entering asset information into Computer Maintenance Management System [ongoing].

FY 2017/18 ACTIONS

DRAFT

Water Quality and Regulatory Affairs

Major Actions

- ◆ Track regulatory and statutory changes at both the federal and state levels pertaining to the Safe Drinking Water Act, the Clean Water Act and the potable water community in general [ongoing].
- ◆ Ensure the Division budget is appropriately expended by actively managing and controlling expenditures [ongoing].

FY 2017/18 ACTIONS

Water Treatment Operations

Major Actions

- ◆ Meet all local water retailers' water demands [ongoing].
- ◆ Meet all applicable water quality regulations [ongoing].
- ◆ Coordinate emergency response planning efforts with the local water retailers, County and City [ongoing].
- ◆ Ensure the Division budget is appropriately expended by actively managing and controlling expenditures [ongoing].



Castaic Lake Water Agency Memorandum

March 20, 2017

To: CLWA Planning and Engineering Committee
From: Brian J. Folsom *BJF*
Engineering and Operations Manager
Subject: Presentation on Emergency and Operational Storage Study

SUMMARY

In August 2013, a hydraulic modeling and system evaluation study was completed to analyze the Agency's distribution system and determine capital improvement projects necessary to mitigate existing and future system deficiencies and improve system operations. The 2013 study recommended further studies be conducted to evaluate both emergency and operational storage requirements and assist with siting and preliminary design of required storage reservoirs. The emergency and operational storage study has been completed and staff will present the results of the study and the recommended associated capital improvement projects at the April 4, 2017 Planning and Engineering Committee meeting. *(FY 2016/17 Action A5.20: Complete the Emergency and Operational Storage Study.)*

BJF

MGS



Castaic Lake Water Agency Memorandum

March 20, 2017

To: CLWA Planning and Engineering Committee

From: Brian J. Folsom *BJF*
Engineering and Operations Manager

Subject: Recommend Authorizing the General Manager to Execute Addendum Number 2 to the Honby Pipeline Relocation Agreement and Approve Payment to Five Point Land, LLC

SUMMARY

In August 2005, the Board of Directors authorized entering into the Honby Pipeline Phase 1 Relocation Agreement (Relocation Agreement) with Newhall Land and Farming (NLF). The Relocation Agreement outlined the responsibilities and obligations of both parties associated with the relocation of the Agency's existing Honby Pipeline. In August 2006, Addendum Number 1 to the Relocation Agreement was executed for issues related to the construction of the Groundwater Transmission Main (GWTM) Phase 1 pipeline. Staff is recommending execution of Addendum Number 2 to the Relocation Agreement for the design and construction of the Honby Temporary Bypass Pipeline and payment to Five Point Land, LLC (formerly NLF) to fulfill the Agency's obligations set forth in Addendum Number 2 to the Relocation Agreement.

DISCUSSION

In order to accommodate a new residential development named "Riverpark" (since renamed "River Village") NLF relocated the existing 33" Honby Pipeline to a location that would not interfere with the proposed development. At the same time, the Agency increased the size of the existing Honby Pipeline from 33" diameter to 60" diameter to meet increasing water demands in the eastern part of the service area.

The Relocation Agreement between the Agency and NLF specified terms and conditions for both parties related to the relocation of the existing Honby Pipeline and associated right of way and easements. Under the terms of the Relocation Agreement, NLF relocated the existing Honby Pipeline, including upsizing the pipe diameter from 33" to 60", and granted easements to the Agency for the relocated Honby Pipeline Phase 1. NLF's contractor performed the construction and the Agency performed construction inspection. In return, the Agency paid the incremental cost of upsizing the pipe to 60" diameter, granted new easements to NLF for Newhall Ranch Road (NRR) and quitclaimed the existing Honby Pipeline easements to NLF.

During the ongoing development of River Village and the design and construction of NRR, both NLF and the Agency determined it would be beneficial to install the GWTM Phase 1 pipeline in the future NRR prior to final road grading and paving activities. In August 2006, Addendum Number 1 to the Relocation Agreement was executed between the Agency and NLF. Under Addendum Number 1, NLF constructed the GWTM Phase 1 pipeline, the Agency reimbursed NLF for the construction costs, and NLF granted the Agency an easement in NRR for the GWTM Phase 1 pipeline.

In late 2007 and early 2008, the 36" Honby Temporary Bypass pipeline was constructed to accommodate the construction of the Golden Valley Bridge and maintain water delivery to the eastern portion of the Agency's service area. The Agency's consultant prepared the design documents, NLF's

contractor performed the construction and Agency staff performed construction inspection. When the Honby Phase 2 pipeline is constructed the Honby Temporary Bypass pipeline will be converted to recycled water use or kept as a backup potable water pipeline in case of emergency. The California Department of Fish and Wildlife and the Army Corps of Engineers granted approval for the Honby Temporary Bypass Pipeline to be permanently located across the Santa Clara River in June 2016 and August 2016, respectively.

Both the Agency and Five Point Land, LLC (formerly NLF) have incurred costs associated with the implementation of the terms of the proposed Addendum Number 2 as shown in the attached Exhibit A. Due to the permanent nature of the bypass line and the mutual benefit to both parties, staff recommends that the total cost of the Honby Temporary Bypass Pipeline be equally shared between the Agency and Five Point Land, LLC. The Agency would owe Five Point \$393,904.58 to fulfill its obligations.

FINANCIAL CONSIDERATIONS

Funds for the payment of \$393,904.58 to Five Point Land, LLC are included in the Agency's FY 2016/17 Major Capital Project Budget as part of the Honby Parallel Project and there are adequate funds remaining for the work. The approved FY 2016/17 project budget for the Honby Parallel Project is \$627,000. As of January 31, 2017, total project expenditures are \$2,095,792.

RECOMMENDATION

That the Planning and Engineering Committee recommends that the Board of Directors authorize the General Manager to execute Addendum Number 2 to the Honby Pipeline Phase 1 Relocation Agreement and approve payment to Five Point Land, LLC in the amount of \$393,904.58

Attachment

BJF

MBS

EXHIBIT "A"
Addendum #2 - Relocation Agreement, Honby Pipeline Phase 1

RIVER VILLAGE, TRACT 53245

February 24, 2017

Item #	Name	Description	Reimbursable Item	NLF Reimbursement to CLWA	CLWA Reimbursement to NLF	Notes
1	Bypass Pipeline	CLWA Design/Engr-Construction Plans	Design Cost	\$23,995.11	\$0.00	Total cost of \$47,990.22 to be shared equally between CLWA & NLF
1	Bypass Pipeline	CLWA Field Inspection	Inspection Cost	\$573.14	\$0.00	Total cost of \$1,146.27 to be shared equally between CLWA & NLF
1	Bypass Pipeline	Construction	Construction Cost	\$0.00	\$418,472.82	Total cost of \$836,945.64 to be shared equally between CLWA & NLF
			Sub-Total	\$24,568.25	\$418,472.82	
			Net Reimbursable		\$393,904.58	Total Reimbursement Due

Castaic Lake Water Agency

Projects in Construction

Monthly Status Report

(Times and Dollar Amounts based on estimated work completed through March 15, 2017)



BOT

Earl Schmidt Intake Pump Station (ESIPS) Pump No. 3 Project

General

Capital Project No: 301002

Description: Addition of a third pump at the Earl Schmidt Intake Pump Station.

Facilities: Earl Schmidt Intake Pump Station.

Function: Enhance pumping capacity and reliability.

Impacted Facilities: Earl Schmidt Intake Pump Station.

CEQA: Categorically Exempt (Class 1, Section 15301 of the State CEQA Guidelines).

Construction Contract Status

Notice of Award: April 14, 2016
Notice to Proceed: May 3, 2016
Calendar Days to Complete: 300
Days by Change Order or Delays: 0
Completion Date: February 27, 2017
Contractor: GSE Construction Company, Inc.
Original Contract Amount: \$ 543,600
Amount by Change Order: \$ 7,945.37
Current Contract Amount: \$ 551,545.37
Billings to date: \$ 442,401.37
Retention: \$ 22,120.07
Estimated Percent of Work Completed: 100%
Percent Billed: 92%
Percent Time Elapsed: 96%

Status: Construction activities were completed February 16, 2017. Project close out is in progress.

Significant Issues: None.

Newhall Lateral Facility Reach 2B Modifications Project

General

Capital Project No: 300321

Description: Construction of pipeline modifications to facilitate pipe inspection activities and CCTV inspection of pipeline.

Facilities: Newhall Lateral Pipeline.

Function: Implementation of the Pipeline Inspection Program.

Impacted Facilities: Turnouts N-3, SC-3, V-5, V-6.

CEQA: Categorically Exempt (Class 1, Section 15301 of the State CEQA Guidelines).

Construction Contract Status

Notice of Award: August 11, 2016
Notice to Proceed: October 10, 2016
Calendar Days to Complete: 187
Days by Change Order or Delays: 47
Completion Date: April 14, 2017
Contractor: GSE Construction Company, Inc.
Original Contract Amount: \$ 440,100
Amount by Change Order: \$ 22,000.00
Current Contract Amount: \$ 462,100
Billings to date: \$ 334,379.00
Retention: \$ 16,718.95
Estimated Percent of Work Completed: 90%
Percent Billed: 72%
Percent Time Elapsed: 83%

Status: GSE installed all improvements that required the shutdown of the Newhall Lateral and the Groundwater Production pipelines and water service to turnouts V-5, V-6, SC-3 and N-3 was restored on March 16, 2017.

Significant Issues: None.

RVWTP Ozone Collection System Modifications Project

General

Capital Project No: 300017

Description: Construction of ozone off-gas improvements to eliminate collection of ozone gas upstream of the Ozone Injection Station.

Facilities: RVWTP.

Function: Eliminate release of nuisance ozone off-gas.

Impacted Facilities: RVWTP.

CEQA: Categorically Exempt (Class 1, Section 15301 of the State CEQA Guidelines).

Construction Contract Status

Notice of Award: October 13, 2016
Notice to Proceed: November 16, 2016
Calendar Days to Complete: 144
Days by Change Order or Delays: 0
Completion Date: April 8, 2017
Contractor: GSE Construction Company, Inc.
Original Contract Amount: \$ 169,975
Amount by Change Order: \$ 5,621.00
Current Contract Amount: \$ 175,596
Billings to date: \$ 143,981.05
Retention: \$ 7,577.95
Estimated Percent of Work Completed: 89%
Percent Billed: 82%
Percent Time Elapsed: 83%

Status: GSE successfully tested all improvements that required the shutdown of RVWTP on February 10, 2017.

Significant Issues: None.

March 22, 2017

Foothill Feeder Turnout CLWA-01 Project

General

Capital Project No: 200905

Description: Construction of a permanent turnout structure known as CLWA-01.

Facilities: Connection to the Foothill Feeder, including construction of a concrete valve vault equipped with a 36-inch conical plug valve, a new meter vault equipped with a 36-inch magnetic type flow meter and associated pipeline.

Function: Increase effective capacity of RVIPS and RVWTP.

Impacted Facilities: RVIPS, RVWTP.

CEQA: Environmental Impact Report for the RVWTP Expansion, which includes permanent Foothill Feeder Connection, was certified by the Board of Directors on June 28, 2006, and the Addendum to the Certified EIR was approved on March 11, 2009.

Construction Contract Status

Notice of Award: March 9, 2017
Notice to Proceed: March 30, 2017 (Anticipated)
Calendar Days to Complete: 335
Days by Change Order or Delays: 0
Completion Date: February 28, 2018
Contractor: GSE Construction Company, Inc.
Original Contract Amount: \$ 2,691,300
Amount by Change Order: \$ 0
Current Contract Amount: \$ \$2,691,300
Billings to date: \$ 0
Retention: \$ 0
Estimated Percent of Work Completed: 0%
Percent Billed: 0%
Percent Time Elapsed: 0%

Status: Pre-construction meeting scheduled for March 30, 2017.

Significant Issues: None.

Earl Schmidt Filtration Plant (ESFP) Clearwell/CT Improvements Project

General

Capital Project No: 200105

Description: Construction of a new concrete contactor to improve disinfection contact time (CT) at ESFP.

Facilities: ESFP.

Function: Improves disinfection contact time at the ESFP and provides increased assurance of operating permit compliance.

Impacted Facilities: ESFP.

CEQA: Categorically Exempt (Class 1, Section 15301 of the State CEQA Guidelines).

Construction Contract Status

Notice of Award: March 9, 2017
Notice to Proceed: April 12, 2017
Calendar Days to Complete: 480
Days by Change Order or Delays: 0
Completion Date: August 5, 2018
Contractor: Clark Bros. Inc.
Original Contract Amount: \$ 5,623,745
Amount by Change Order: \$ 0
Current Contract Amount: 5,623,745
Billings to date: \$ 0
Retention: \$ 0
Estimated Percent of Work Completed: 0%
Percent Billed: 0%
Percent Time Elapsed: 0%

Status: Preparing to issue Notice To Proceed (NTP) to Contractor and scheduling the pre-construction meeting.

Significant Issues: None.

**Planning and Engineering Committee
Planning Calendar
FY 2016/17**

ITEM NO. 7

	Item	April 4 Comm	April 26 Board	May 2 Comm	May 24 Board	May 30 Comm	June 28 Board
1	Monthly Committee Planning Calendar	P		P		P	
2	CIP Construction Status Report	P		P		P	
3	Conference with Legal Counsel – Anticipated Litigation. Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9 (One Case). CLOSED SESSION	P	P				
4	Review Proposed FY 2017/18 Action Items	P					
5	Review Proposed FY 2017/18 Capital Projects	P	P				
6	Recommend Approval of Amendment to Honby Relocation Agreement	P	P				
7	Presentation on Emergency and Operational Storage Study	P	P				
8	Final Review Proposed FY 2017/18 Minor and Major Capital Projects and Action Items			P	P		
9	Update on Quagga Mussels					P	P
10	Recommend Approval of Construction Contract for RV-2 Modifications Project					P	P
11	Recommend Approval of Construction Contract for SPTF Pressure Sustaining Modifications					P	P
12	Follow-up Final Review Proposed FY 2017/18 Minor and Major Capital Projects, if needed					P	P
13	Certify CEQA and Recommend Approval of Replacement Wells/Dry Year Reliability Wells Design Contracts					P	P
14	Adopt 2016 Recycled Water Master Plan Update and Certify CEQA					P	P
15	Recommend Approval of a Resolution Adopting a Mitigated Negative Declaration, Final Design, and cost sharing for the Recycled Water Program Phase 2A (Central Park) Project between CLWA and SCWD					P	P
16	Recommend Approval of a Resolution Adopting a Mitigated Negative Declaration, Final Design, and cost sharing for the Recycled Water Program Phase 2B (Vista Canyon) Project between CLWA and SCWD					P	P
17	Recommend Approval of a Resolution Adopting a Mitigated Negative Declaration, Final Design, and cost sharing for the Recycled Water Program Phase 2C (South End) Project between CLWA, NCWD and VWC					P	P
18	Recommend Approval of a Resolution Adopting a Mitigated Negative Declaration, Final Design, and cost sharing for the Recycled Water Program Phase 2D (West Ranch) Project between CLWA and VWC					P	P

C = Completed Item
P = Planned Item