



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: APRIL 23, 2018

GENERAL MANAGER'S REPORT

ITEM NO: 21

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of March 31, 2018

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
March 2018

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽⁶⁾	Project Estimate	Year to Date Total as of 3/31/2018	Life to Date Total as of 3/31/2018	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
									% Spent	% Completed	

Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000

Advanced Technology⁽²⁾

1619634	Operational Data Management System - Electric	05/09/16	3,189,500	2,474,500	224,468	2,028,602	445,898	03/19/18	82%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,000,000	790,000	-	-	790,000	09/23/16	0%	2%	Developing business case.
	Subtotal			3,264,500	224,468	2,028,602	1,235,898				

Cable Replacement

1713398	Canyon Crest Area 1F	01/08/18	739,000	739,000	35,213	39,547	699,453	03/08/18	5%	0%	Pending start date.
1409723	Canyon Crest Area Circuit 1215	11/06/15	1,175,000	1,175,000	4,175	1,032,426	142,574	02/08/18	88%	95%	As-builts in progress.
1319813	Canyon Crest Area Circuit 1218	04/10/17	967,000	967,000	318,306	734,430	232,570	02/06/18	76%	80%	In construction.
	Subtotal			2,881,000	357,694	1,806,403	1,074,597				

CIS Banner Upgrade

1104202	CIS Replacement	06/01/12	8,859,000	8,859,000	127,201	8,379,998	479,002	11/30/16	95%	95%	Completed, pending closure.
	Subtotal			8,859,000	127,201	8,379,998	479,002				

City-Wide Communciations Network

1719921	Magnolia Avenue	04/24/17	2,189,489	2,189,489	52,622	76,358	2,113,131	03/08/18	3%	20%	In construction.
1524282	Land Mobile Radio (LMR) system (Electric Portion)	09/26/16	3,000,000	1,650,000	118,292	1,686,466	(36,466)	11/30/17	102%	95%	Completed, pending closure.
1423750	Riverside Substation to Hunter Substation	04/24/17	465,000	465,000	201,200	193,291	271,709	03/15/18	42%	15%	In construction.
	Subtotal			4,304,489	372,114	1,956,115	2,348,374				

Distribution Automation Reliability

1309568	Distribution Automation Program	01/18/13	960,000	960,000	2,674	682,683	277,317	02/21/18	71%	65%	In construction.
	Subtotal			960,000	2,674	682,683	277,317				

GO 165 Upgrades/Relocations

Various	GO-165 Pole Replacements - Citywide	09/25/17	1,125,000	1,125,000	-	75,629	1,049,371	Various	7%	3%	Project start date 02/1/18.
1804337	Four (4) Electrical Vaults & Manholes	09/25/17	557,000	557,000	6,377	6,377	550,623	03/16/18	1%	0%	Project start date 02/1/18.
	Subtotal			1,682,000	6,377	82,006	1,599,994				

Major 4/12Kv Conversions

1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	-	131,926	801,074	06/01/17	14%	25%	In construction.
1521820	Plaza Substation - Circuit 452	09/18/15	1,446,000	1,446,000	557,500	1,178,949	267,051	03/09/18	82%	75%	In construction.
1503125	Magnolia Substation - Circuit 46	04/17/15	1,833,000	1,833,000	416,018	1,986,895	(153,895)	03/10/18	108%	95%	In construction.
1501824	Plaza Substation - Circuit 454	09/18/15	1,349,000	1,349,000	96	1,367,056	(18,056)	01/18/18	101%	100%	Completed, pending closure.
1411795	Magnolia - Underground Conversion	04/02/15	2,250,000	2,250,000	44,871	1,673,506	576,494	02/27/18	74%	90%	In construction.
1319390	Magnolia - Overhead Conversion	09/19/14	1,577,100	1,577,100	60,238	1,844,453	(267,353)	02/24/18	117%	95%	In construction.
	Subtotal			9,388,100	1,078,724	8,182,785	1,205,315				

Major Overhead/Underground Conversions

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽⁶⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 3/31/2018	Total as of 3/31/2018			% Spent	% Completed	
0913192	Tyler Street Widening	08/07/15	816,000	816,000	101,795	973,503	(157,503)	12/01/17	119%	95%	Completed, pending as-builts.
Major Street Light Projects		Subtotal		816,000	101,795	973,503	(157,503)				
1725687	Wells-Arlanza Sidewalk Improvements Project	01/08/18	460,000	460,000	2,158	5,763	454,237	02/22/18	1%	0%	Pending start date.
1722321	Norte Vista Sidwalk Improvements Project	02/12/18	888,000	888,000	4,193	22,250	865,750	02/22/18	3%	0%	Pending start date
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	105,917	240,332	909,668	03/12/18	21%	38%	In design.
1518574	Tyler Street Widening Project	08/07/15	141,000	141,000	321	132,081	8,919	12/01/17	85%	95%	Completed, pending as-builts.
Major Tract Distribution		Subtotal		2,639,000	112,589	400,426	2,238,574				
1518525	Jurupa Avenue - New Tract 28987	11/06/15	320,000	320,000	-	13,740	306,260	06/01/16	4%	0%	On-hold.
070016 / 07	Tract 29596 Krameria Ave⁽³⁾	07/20/07	500,000	500,000	-	468,292	31,708	03/13/14	94%	95%	In construction.
070016 / 02	Tract 29515 Phase 2 & Sewer Lift Station⁽⁴⁾	11/16/07	345,000	345,000	96	344,515	485	11/02/17	100%	95%	Completed, pending as-builts.
Major Transmission Line Projects		Subtotal		1,165,000	96	826,547	338,453				
1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	4,062	179,672	120,328	02/22/18	60%	50%	Pending start date ⁽⁷⁾
Neighborhood Streetlight Retrofit		Subtotal		300,000	4,062	179,672	120,328				
1523553	Wood Streets Streetlights Phase 2	02/13/17	2,300,000	2,300,000	1,627,214	2,112,436	187,564	03/08/18	92%	95%	Completed, pending as-builts.
080022 / 01	Wood Streets Streetlights Phase I ⁽⁵⁾	11/30/17	1,909,600	1,909,600	449	1,792,108	117,492	11/30/17	94%	95%	Completed, pending as-builts.
RTRP and STP Project		Subtotal		4,209,600	1,627,663	3,904,544	305,056				
642975	Riverside Transmission Reliability Project (RTRP) ⁽¹⁾	02/08/18	44,105,521	44,105,521	644,096	26,458,543	17,646,978	03/08/18	60%	15%	In design.
812940	Sub-Transmission Project (STP) ⁽¹⁾	11/28/17	24,000,000	24,096,844	6,252	18,312,631	5,784,213	02/01/18	76%	99%	Completed, pending as-builts.
SCADA		Subtotal		68,202,365	650,348	44,771,174	23,431,191				
1024305	Electric SCADA System Upgrades	08/10/16	2,938,307	2,938,307	-	2,737,329	200,978	08/10/16	93%	99%	Completed, pending closure.
Substation Bus and Upgrades		Subtotal		2,938,307	-	2,737,329	200,978				
1814007	Substation Capacitor Upgrade Project	01/11/18	5,306,000	5,306,000	2,093	2,093	5,303,907	03/08/18	0%	0%	Pending start date.
1812830	Nine (9) Substation Battery Chargers Upgrade Proj.	02/08/18	384,000	384,000	28,935	28,935	355,065	02/27/18	8%	0%	In procurement phase.
1603079	Springs & Orangecrest	01/25/18	1,700,000	1,700,000	7,706	1,126,985	573,015	02/27/18	66%	60%	Pending construction.
1601400	Springs, Freeman and Mt. View	02/08/18	5,530,000	5,530,000	1,504,199	4,005,181	1,524,819	03/16/18	72%	45%	In construction.
1507210	RERC Control Power Improvement	02/08/18	272,000	272,000	13,535	28,192	243,808	03/08/18	10%	0%	In procurement phase.
1311245	Orangecrest, Riverside, Springs & La Colina ⁽⁸⁾	02/08/18	1,925,805	1,925,805	(58,211)	1,909,821	15,984	03/08/18	99%	85%	In construction.
1411145	La Colina Switchgear 3 & 4⁽⁸⁾	02/12/18	534,051	534,051	211,253	283,776	250,275	02/27/18	53%	25%	On-hold.
1817274	Vista Substation	02/26/18	836,175	836,175	-	-	836,175	03/12/18	0%	10%	Waiting for invoices from SCE
1816163	Substation Automation Upgrade Project	02/26/18	2,027,679	2,027,679	8,659	8,659	2,019,020	03/08/18	0%	2%	Indesign

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽⁶⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 3/31/2018	Total as of 3/31/2018			% Spent	% Completed	
Subtotal				18,515,710	1,718,168	7,393,642	11,122,068				
Substation Transformer Addition											
1816795	Hunter Substation Rebuild Project	01/11/18	630,000	587,000	386	386	586,614	01/11/18	0%	0%	In procurement phase.
1619571	Plaza Substation	11/30/17	460,000	460,000	24,742	453,530	6,470	11/30/17	99%	95%	Completed, pending as-builts.
1514752	Mobile Substation #3	02/01/18	2,198,993	2,198,993	255,381	2,100,867	98,126	03/08/18	96%	95%	In commissioning phase.
Subtotal				3,245,993	280,509	2,554,783	691,210				
SCE Condemnation Costs											
1704094	Annexation 95 & 99 areas	12/29/17	444,000	444,000	443,792	443,792	208	12/29/17	100%	95%	Pending cutover to RPU system.
Subtotal				444,000	443,792	443,792	208				
Total Electric Fund - Open Work Orders				133,815,064	7,108,274	87,304,004	46,511,060				

Notes:

(1) RTRP Work Orders 642975 and 082940 (including related sub-work orders) roll up into Project 050009, Sub-Project 050009-01.

The total RTRP budget as approved by Council on 5-15-07 and 6-23-09 is \$106,245,000.

The total budget for RTRP Work Order 642975 (including various sub-work orders) as last approved by Board on 10-17-14 is \$42,605,521. RTRP costs are charged to SCE reimbursement Acct 470686 or to non-reimbursable Acct.

The total budget for STP Work Order 082940 (including various sub-work orders) as last approved by Board on 11-6-09 is \$24,000,000. All STP costs are charged to non-reimbursable Acct. 470685.

(2) Advanced Technology projects includes both capital expenditures and professional services.

(3) Work includes both WO 0704432 & 0704434

(4) Work includes both WO 0702819 & 0702820

(5) Work includes both WO 809099 & 0809101

(6) Board approved estimate is the total amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.

(7) Expenditures reflect equipment purchases such as poles and switches for the project.

(8) Reclass of prior period expenses between wo1311245 and 1411145

Items in BLUE represent work orders with no activity in the last 60 days.

Riverside Public Utilities
Open Capital Work Order Summary Report - Water Fund
March 2018

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽²⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 03/31/2018	Total as of 03/31/2018			% Spent	% Completed	
Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000											
Advanced Technology ⁽¹⁾											
1707248	Advanced Metering Infrastructure - Water	06/12/17	3,000,000	1,110,000	-	-	1,110,000	09/23/16	0%	2%	Developing business case.
1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,717,500	167,604	1,109,847	607,653	05/09/16	65%	70%	In implementation phase.
	Subtotal			2,827,500	167,604	1,109,847	1,717,653				
Asset Management System											
1424073	Water Asset Management	06/20/14	2,530,400	2,048,689	255,070	2,284,406	(235,717)	03/14/18	112%	100%	Completed, pending closure.
	Subtotal			2,048,689	255,070	2,284,406	(235,717)				
Aquifer Storage & Recovery System											
1202806	Riverside North Aquifer Storage & Recovery	10/07/11	1,800,000	1,800,000	23,133	447,714	1,352,286	07/01/17	25%	10%	In environmental evaluation phase.
	Subtotal			1,800,000	23,133	447,714	1,352,286				
Development Costs											
1504840	Santa Ana River Habitat Conservation	09/05/14	325,000	325,000	-	134,256	190,744	09/30/14	41%	25%	In biological evaluation phase.
	Subtotal			325,000	-	134,256	190,744				
Facility Rehabilitation											
1806866	John W. North Treatment Plant Trains 1,2,3	10/23/17	530,000	530,000	-	-	530,000	10/01/17	0%	0%	Pending replacement, 03/2018
1806142	Garner C Groundwater Well	11/27/17	361,000	361,000	7,124	7,124	353,876	12/14/17	2%	0%	Pending start date.
1806141	Warren 1 Groundwater Well	11/27/17	346,000	346,000	18,066	18,066	327,934	08/28/17	5%	0%	Project started 1/16/2018
1806140	Gage 66-1 Groundwater Well	11/27/17	381,000	381,000	11,455	11,455	369,545	03/08/18	3%	0%	Pending start date.
1806139	Gage 92-1 Groundwater Well	11/27/17	413,000	413,000	6,226	6,266	406,734	11/30/17	2%	0%	Pending start date.
1801849	Mockingbird Canyon Pump Station	01/08/18	203,000	203,000	29,351	27,256	175,744	03/08/18	13%	0%	Pending start date.
1727627	John W. North Treatment Plant Trains 4,5	07/10/17	368,000	368,000	369,828	369,828	(1,828)	01/02/18	100%	100%	Completed, pending closure.
1712678	Flume 3 Groundwater Well	02/13/17	255,672	255,672	15,200	110,173	145,499	03/01/18	43%	100%	Completed, pending closure.
1712677	Gage 92-3 Groundwater Well	02/13/17	264,626	264,626	188,965	188,965	75,661	03/07/18	71%	0%	Completed pending payment
1712676	Tippecanoe Groundwater Well	02/13/17	301,454	301,454	32,010	226,786	74,668	01/25/18	75%	100%	Completed, pending closure.
1712675	Raub 6 Groundwater Well	02/13/17	297,582	297,582	132,952	132,952	164,630	03/07/18	45%	40%	In construction.
1712389	Raub 7 Groundwater Well	02/13/17	267,288	267,288	27,216	191,870	75,418	10/19/17	72%	100%	Completed, pending closure.
1727342	Gage 51-1 Groundwater Well	11/27/17	337,000	337,000	146,601	146,601	190,399	03/15/18	44%	0%	Pending start date.
1524282	Land Mobile Radio (LMR) system (Wtr Portion)	09/26/16	3,000,000	1,350,000	-	1,283,051	66,949	10/20/16	95%	95%	Completed,pending commisioning.
1508449	Palmyrita Well	11/07/14	215,000	215,000	1,887	8,932	206,068	11/16/17	4%	5%	On-hold.
	Subtotal			5,890,622	986,881	2,729,325	3,161,297				

Riverside Public Utilities
Open Capital Work Order Summary Report - Water Fund
March 2018

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽²⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 03/31/2018	Total as of 03/31/2018			% Spent	% Completed	
Main Replacements											
1619730	Tenth and Eleventh Street	08/22/16	2,245,000	2,245,000	624,496	2,040,076	204,924	03/08/18	91%	100%	Completed, pending closure.
1602941	Larchwood Place	10/16/15	895,000	865,000	3,967	477,422	387,578	09/07/17	55%	100%	Completed, pending closure.
1513392	Colorado Ave and Toyon Road	05/22/17	2,978,000	2,978,000	2,387,658	2,458,094	519,906	03/08/18	83%	100%	Completed, pending closure.
1507007	Jasmine and Columbus	10/03/14	679,000	679,000	18,699	18,699	660,301	03/08/18	3%	0%	On-hold.
1422097	Indiana Avenue and Mary St.	07/10/17	2,017,000	2,017,000	1,368,163	1,463,386	553,614	03/14/18	73%	90%	In construction.
1415931	California and Monroe	12/12/14	973,500	973,500	-	820,305	153,195	05/04/17	84%	95%	On-hold. In litigation.
1800797	Meter replacement throught the City of Riverside	01/22/18	263,600	263,600	104,525	104,525	159,075	03/01/18	40%	20%	In construction.
Subtotal				10,021,100	4,507,508	7,382,507	2,638,593				
Recycled Water Facilities											
1722078	Jackson St - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,730	434,730	43,121	53,084	381,646	02/13/18	12%	18%	In construction.
1623724	Jackson Street - Phase 1B (Utility Potholing/Design)	10/23/17	433,000	433,000	138,122	169,674	263,326	03/15/18	39%	100%	Completed, pending as-builts
1521905	Jackson Street - Phase 1	01/22/16	9,039,000	8,839,000	3,550,917	4,090,046	4,748,954	03/14/18	46%	55%	In construction.
Subtotal				9,706,730	3,732,159	4,312,804	5,393,926				
System Expansion											
1615173	Water Cust. Development - 58 Magnolia Ctr.	(3)	(3)	237,767	262,062	261,959	(24,192)	01/11/18	110%	90%	Pending pavement completion.
Subtotal				237,767	262,062	261,959	(24,192)				
Transmission Mains											
1612632	Utility Pothole Work - Magnolia Ave	01/08/18	484,000	484,000	183,210	183,210	300,790	03/08/18	38%	0%	In construction.
Subtotal				484,000	183,210	183,210	300,790				
Utility Agreement Projects - Caltrans SR-91 HOV											
1112062	UA 21699 - Misc. Utility Relocations	11/18/11	1,555,000	1,555,000	-	457,746	1,097,254	03/08/18	29%	99%	Completed, pending closure.
1112059	UA 21702 - Ivy St Bridge	08/19/11	1,600,000	1,600,000	-	1,333,551	266,449	09/27/17	83%	99%	Completed, pending closure.
Subtotal				3,155,000	-	1,791,297	1,363,703				
Total Water Fund - Open Work Orders				36,496,408	10,117,628	20,637,325	15,859,083				

NOTE:

(1) Advanced Technology projects includes both capital expenditures and professional services.

(2) Board approved estimate is the total amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.

(3) 100% Customer funded project

Items in blue represent work orders with no activity in the last 60 days.



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: APRIL 23, 2018

GENERAL MANAGER'S REPORT

ITEM NO: 21

Riverside Public Utilities

Closed Work Order Reports

As of March 31, 2018

Riverside Public Utilities
Closed Capital Work Order Summary Report - Electric Fund
March 2018

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
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CLOSED Capital Work Orders with Budget or Actual Expenditures > \$200,000

Please note: No Closed Electric Work Orders over \$200,000
to report for the month of March 2018.

Total Electric Fund - Closed Work Orders

\$ -	\$ -	\$ -
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Closed Capital Work Order Summary Report - Water Fund
March 2018

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
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CLOSED Capital Work Orders with Budget or Actual expenditures > \$200,000

Main Replacements

1107917	Magnolia Ave and Ramona Dr Water Distribution Main Replacement Project	4/10/2017	2/2/2018	\$ 2,704,000	\$ 2,382,286	\$ 321,714	11.90%
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1) Note on Final Project Cost:

This project was completed within estimated cost.

2) Impact to Customer Service:

The project enhances reliability and safety of the water mains in this area.

3) Impact to System Reliability:

The project improved system reliability by eliminating the leaks that often occurred on the aging water mains.

Total Water Fund - Closed Work Orders

<u>\$ 2,704,000</u>	<u>\$ 2,382,286</u>	<u>\$ 321,714</u>
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