



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: SEPTEMBER 25, 2017

GENERAL MANAGER'S REPORT

ITEM NO: 15

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of August 30, 2017

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
August 2017

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽⁷⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 8/31/2017	Total as of 8/31/2017			% Spent	% Completed	

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

Advanced Technology⁽³⁾

1619634	Operational Data Management System - Electric	05/09/16	3,189,500	3,189,500	(4,060)	1,864,911	1,324,589	06/30/17	58%	60%	In construction.
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,000,000	1,890,000	-	-	1,890,000	09/23/16	0%	0%	Pending start date.
	Subtotal			5,079,500	(4,060)	1,864,911	3,214,589				

Cable Replacement

1525067	Ward 5 Cable Rejuvenation	07/25/16	449,000	449,000	-	311,639	137,361	06/01/17	69%	95%	Completed, pending as-builts.
1409723	Canyon Crest Area Circuit 1215	11/06/15	1,175,000	1,175,000	463	1,028,764	146,236	07/13/17	88%	95%	Completed, pending as-builts.
1319813	Canyon Crest Area Circuit 1218	04/10/17	967,000	967,000	(195,316)	220,808	746,192	07/27/17	23%	10%	In construction.
	Subtotal			2,591,000	(194,854)	1,561,211	1,029,789				

CIS Banner Upgrade

1104202	CIS Replacement	06/01/12	8,859,000	8,859,000	-	8,242,223	616,777	11/30/16	93%	95%	Completed, pending closure.
	Subtotal			8,859,000	-	8,242,223	616,777				

City-Wide Communciations Network

1719921	Magnolia Avenue	04/24/17	2,189,489	2,189,489	6,080	33,913	2,155,576	08/24/17	2%	1%	In construction.
1524282	Land Mobile Radio (LMR) system (Electric Portion)	09/26/16	3,000,000	1,650,000	36,045	1,604,219	45,781	07/27/17	97%	85%	Completed, pending closure.
1423750	Riverside Substation to Hunter Substation	04/24/17	465,000	465,000	4,258	35,068	429,932	07/27/17	8%	10%	In design.
1423746	Fiber Use License Agmt.- County of Riverside	01/22/16	325,000	325,000	-	340,484	(15,484)	06/30/17	105%	95%	Completed, pending as-builts.
	Subtotal			4,629,489	46,383	2,013,684	2,615,805				

Distribution Automation Reliability

1309568	Distribution Automation Program	01/18/13	960,000	960,000	1,302	681,312	278,688	07/15/17	71%	65%	In construction.
	Subtotal			960,000	1,302	681,312	278,688				

GO 165 Upgrades/Relocations

1722605	OH & UG Electric Dist. System Inspections	06/26/17	2,844,000	2,388,000	-	-	2,388,000	03/08/17	0%	0%	Pending start date.
	Subtotal			2,388,000	-	-	2,388,000				

Line Rebuilds

1607467	Magnolia Ave. and Harrison Street.	10/24/16	230,000	230,000	138	241,348	(11,348)	07/27/17	105%	100%	Completed, pending closure.
1606533	Palm Avenue Circuit 454	06/27/16	228,000	228,000	-	273,379	(45,379)	06/30/17	120%	100%	Completed, pending closure.
	Subtotal			458,000	138	514,727	(56,727)				

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					Total as of 8/31/2017	Total as of 8/31/2017			% Spent	% Completed	
Major 4/12Kv Conversions											
1616413	Plaza Substation on Elizabeth Street	06/27/16	220,000	220,000	-	251,280	(31,280)	06/15/17	114%	100%	Completed, pending closure.
1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	-	131,926	801,074	06/01/17	14%	50%	In construction.
1521820	Plaza Substation - Circuit 452	09/18/15	1,446,000	1,446,000	114,760	784,006	661,994	08/25/17	54%	50%	In construction.
1503125	Magnolia Substation - Circuit 46	04/17/15	1,833,000	1,833,000	120,380	1,722,025	110,975	08/26/17	94%	60%	In construction.
1501824	Plaza Substation - Circuit 454	09/18/15	1,349,000	1,349,000	-	835,630	513,370	07/01/17	62%	95%	Completed, pending as-builts.
1411795	Magnolia - Underground Conversion	04/02/15	2,250,000	2,250,000	5,727	1,640,054	609,946	06/01/17	73%	90%	In construction.
1319390	Magnolia - Overhead Conversion	09/19/14	1,577,100	1,577,100	-	1,786,478	(209,378)	06/21/17	113%	94%	In construction.
	Subtotal			9,608,100	240,866	7,151,399	2,456,701				
Major Feeders											
1525536	Diana Avenue	01/22/16	850,000	850,000	269	800,153	49,847	07/13/17	94%	95%	Completed, pending as-builts.
	Subtotal			850,000	269	800,153	49,847				
Major Overhead/Underground Conversions											
1604758	7105 Old Frontage 215 Rd	(2)	(2)	208,182	83	189,027	19,155	08/24/17	91%	95%	Completed, pending as-builts.
1202319	Riverside Ave RR Grade Separation	11/15/13	616,200	616,200	-	703,254	(87,054)	06/30/17	114%	100%	Closed on 07/31/17.
0913192	Tyler Street Widening	08/07/15	816,000	816,000	-	871,531	(55,531)	06/30/17	107%	95%	Completed, pending as-builts.
	Subtotal			1,640,382	83	1,763,812	(123,430)				
Major Street Light Projects											
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	(19,897)	182,100	967,900	08/24/17	16%	17%	In design.
1518574	Tyler Street Widening Project	08/07/15	141,000	141,000	83	233,478	(92,478)	08/10/17	85%	85%	In construction.
	Subtotal			1,291,000	(19,814)	415,578	875,422				
Major Tract Distribution											
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 ⁽⁴⁾	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 ⁽⁵⁾	11/16/07	345,000	345,000	-	344,419	581	06/01/16	100%	95%	Pending as-builts.
	Subtotal			1,165,000	-	826,450	338,550				
Major Transmission Line Projects											
1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	787	176,616	123,384	08/24/17	59%	50%	Pending start date.
	Subtotal			300,000	787	176,616	123,384				
Neighborhood Streetlight Retrofit											
1523553	Wood Streets Streetlights Phase 2	02/13/17	2,300,000	2,300,000	276,097	761,598	1,538,402	08/24/17	33%	5%	In construction.
080022 / 01	Wood Streets Streetlights Phase I ⁽⁶⁾	10/18/13	1,909,600	1,909,600	-	1,791,660	117,940	03/01/16	94%	95%	Completed, pending as-builts.
	Subtotal			4,209,600	276,097	2,553,258	1,656,342				

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RTRP and STP Project											
642975	230 KV Station	03/05/15	42,605,521	42,605,521	20,856	26,258,057	16,347,464	08/24/17	62%	15%	In design.
812940	69 KV Station ⁽¹⁾	11/06/09	24,000,000	24,096,844	-	18,306,368	5,790,476	06/29/17	76%	99%	Completed, pending as-builts.
	Subtotal			66,702,365	20,856	44,564,425	22,137,940				
SCADA											
1024305	Electric SCADA System Upgrades	06/27/16	2,938,307	2,938,307	-	2,737,329	200,978	08/10/16	93%	99%	Completed, pending closure.
	Subtotal			2,938,307	-	2,737,329	200,978				
Substation Bus and Upgrades											
1603079	Springs & Orangecrest	02/19/16	1,700,000	1,700,000	204	1,119,828	580,172	07/27/17	66%	60%	In design.
1601400	Springs, Freeman and Mt. View	07/25/16	5,530,000	5,530,000	7,896	2,788,416	2,741,584	07/27/17	50%	45%	In construction.
1311245	Orangecrest, Riverside, Springs & La Colina	03/21/14	1,925,805	1,925,805	1,859	1,973,479	(47,674)	08/24/17	102%	75%	In construction.
1411145	La Colina Switchgear 3 & 4	03/21/14	534,051	534,051	-	72,523	461,528	06/01/17	14%	25%	On-hold.
1024965	Electronic Security Monitoring and Access Control	09/16/11	5,000,000	5,000,000	57	5,112,334	(112,334)	07/13/17	102%	100%	Completed, pending closure.
1020992	La Colina & Hunter	05/03/13	649,885	649,885	-	457,843	192,042	06/01/16	70%	90%	On-hold.
	Subtotal			15,339,741	10,017	11,524,423	3,815,318				
Substation Transformer Addition											
1619571	Plaza Substation	10/24/16	460,000	460,000	1,899	430,687	29,313	08/24/17	94%	95%	Completed, pending as-builts.
1514752	Mobile Substation #3	05/23/16	2,198,993	2,198,993	317	1,859,723	339,270	08/24/17	85%	95%	Completed, pending closure.
	Subtotal			2,658,993	2,216	2,290,410	368,583				
SCE Condemnation Costs											
1704094	Annexation 95 & 99 areas	10/24/16	444,000	444,000	-	-	444,000	No activity	0%	0%	On-hold.
	Subtotal			444,000	-	-	444,000				
Total Electric Fund - Open Work Orders				132,112,477	380,287	89,681,922	42,430,555				

Notes:

- (1) This work is part of Project 050009 & included within the \$24,000,000 authorized by PU Board and includes various work orders closed in prior years.
- (2) 100% customer funded project
- (3) Advanced Technology projects includes both capital expenditures and professional services.
- (4) Work includes both WO 0704432 & 0704434
- (5) Work includes both WO 0702819 & 0702820
- (6) Work includes both WO 809099 & 0809101
- (7) Board approved estimate is the total amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.

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
August 2017

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 08/31/2017	Total as of 08/31/2017			% 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%	0%	Pending start date.
1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,717,500	-	974,969	742,531	05/09/16	57%	60%	In construction.
	Subtotal			2,827,500	-	974,969	1,852,531				

Asset Management System

1424073	Water Asset Management	06/20/14	2,530,400	2,048,689	7,430	2,148,398	(99,709)	08/16/17	105%	95%	Completed, pending closure.
	Subtotal			2,048,689	7,430	2,148,398	(99,709)				

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	06/01/16	41%	25%	In biological evaluation phase.
	Subtotal			325,000	-	134,256	190,744				

Facility Rehabilitation

1727627	John W. North Treatment Plant Trains	07/10/17	368,000	368,000	-	-	368,000	No Activity	0%	0%	No Activity.
1712678	Flume 3 Groundwater Well	02/13/17	255,672	255,672	(41,366)	94,973	160,699	07/01/17	37%	30%	In construction.
1712677	Gage 92-3 Groundwater Well	02/13/17	264,626	264,626	-	10,383	254,243	06/01/17	4%	10%	In construction.
1712676	Tippecanoe Groundwater Well	02/13/17	301,454	301,454	(130,397)	65,465	235,989	07/27/17	22%	30%	In construction.
1712675	Raub 6 Groundwater Well	02/13/17	297,582	297,582	198	12,055	285,527	08/24/17	4%	10%	In construction.
1712389	Raub 7 Groundwater Well	02/13/17	267,288	267,288	(99,095)	65,560	201,728	07/01/17	25%	30%	In construction.
1610216	Riverside Golf Course Drip Irrigation System	02/19/16	240,000	240,000	-	230,449	9,551	06/30/17	96%	99%	Completed, pending closure.
1524282	Land Mobile Radio (LMR) system (Water Portion)	09/26/16	3,000,000	1,350,000	-	1,283,051	66,949	08/10/17	95%	85%	Completed, pending closure.
1508449	Palmyrita Well	11/07/14	215,000	215,000	1,189	8,233	206,767	08/15/17	4%	5%	On-hold.
	Subtotal			3,559,622	(269,471)	1,770,169	1,789,453				

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					Total as of 08/31/2017	Total as of 08/31/2017			(Based on Proj. Est.)		
									% Spent	% Completed	
Main Replacements											
1619730	Tenth and Eleventh Street	08/22/16	2,245,000	2,245,000	76,843	1,570,707	674,293	08/24/17	70%	85%	In construction.
1602941	Larchwood Place	10/16/15	895,000	865,000	-	473,455	391,545	06/30/17	55%	100%	Completed, pending closure.
1518913	Brockton Ave. & Palm Ave. Railroad Crossings	08/22/16	688,000	688,000	-	659,307	28,693	06/30/17	96%	100%	Completed, pending closure.
1515609	Arlington Ave. & Western Ave.	06/06/16	1,241,000	1,241,000	68,054	989,679	251,321	08/24/17	80%	85%	In construction.
1515505	Ambs Drive	06/06/16	1,523,000	1,523,000	3,242	1,101,971	421,029	08/24/17	72%	100%	Completed, pending closure.
1515504	Arroyo Drive	11/14/16	2,040,000	2,040,000	32,599	1,616,325	423,675	08/30/17	79%	80%	In construction.
1513392	Colorado Ave and Toyon Road	05/22/17	2,978,000	2,978,000	14,551	205,040	2,772,960	08/25/17	7%	30%	In construction.
1507007	Jasmine and Columbus	10/03/14	679,000	679,000	-	-	679,000	No Activity	0%	0%	On-hold.
1422097	Indiana Avenue and Mary St.	07/10/17	2,017,000	2,017,000	3,919	115,036	1,901,964	08/24/17	6%	10%	In construction.
1415931	California and Monroe	12/12/14	973,500	973,500	-	820,305	153,195	06/01/17	84%	95%	In construction.
1107917	Magnolia Ave and Ramona Dr	04/10/17	2,704,000	2,704,000	539,905	927,095	1,776,905	08/24/17	34%	48%	In construction.
Subtotal				17,953,500	739,113	8,478,920	9,474,580				
Recycled Water Facilities											
1722078	Jackson Street - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,730	434,730	20,276	30,240	404,490	08/22/17	7%	5%	In construction.
1521905	Jackson Street - Phase 1	01/22/16	8,609,000	8,609,000	22,543	561,074	8,047,926	08/25/17	7%	5%	In construction.
Subtotal				9,043,730	42,820	591,314	8,452,416				
System Expansion											
1703061	Crestlawn-Norco	11/14/16	1,339,000	1,339,000	12,891	1,119,111	219,889	08/24/17	84%	80%	In construction.
Subtotal				1,339,000	12,891	1,119,111	219,889				
Utility Agreement Projects - Caltrans SR-91 HOV											
1112062	UA 21699 - Misc. Utility Relocations	11/18/11	1,555,000	1,555,000	-	454,206	1,100,794	06/30/17	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	06/01/17	83%	99%	Completed, pending closure.
Subtotal				3,155,000	-	1,787,757	1,367,243				
				42,052,041	555,916	17,452,608	24,599,433				
Total Water Fund - Open Work Orders											

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.

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



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GENERAL MANAGER'S REPORT

ITEM NO: 15

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Closed Work Order Reports

As of August 30, 2017

Riverside Public Utilities
Closed Capital Work Order Summary Report - Electric Fund
August 2017

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 August 2017.

Total Electric Fund - Closed Work Orders

\$	-	\$	-	\$	-
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August 2017

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CLOSED Capital Work Orders with Budget or Actual expenditures > \$200,000

Pump Station Expansion

1424014	Gratton Booster Station Replacement	01/23/2015	07/03/2017	\$ 1,311,100	\$ 1,077,016	\$ 234,084	17.85%
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1) Note on Final Project Cost:

The project was completed successfully within the approved budget. Efficient coordination during construction and other factors contributed to savings to the project budget, such as requiring less than expected support by City forces and change order contingency.

2) Impact to Customer Service:

Customers will realize continued and uninterrupted supply of water throughout the year due to the addition of the Booster Station.

3) Impact to System Reliability:

The construction of the new Booster Station is expected to increase system reliability.

Utility Agreement Projects - San Bernardino County Transportation Commission (SANBAG)

1703247	I-215/Barton Road Pipeline Relocation and Encasement	09/26/2016	06/14/2017	\$ 585,000	\$ 581,428	\$ 3,572	0.61%
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1) Note on Final Project Cost:

Project was completed within budget and fully funded by SANBAG.

2) Impact to Customer Service:

This project not only relocated the pipe from CALTRANS freeway ramp proximity, it also increased flow of water to customers which enhanced the efficiency of the system.

3) Impact to System Reliability:

This pipe has been upsized to new 48-inch cement coated steel pipe, which increased the reliability of the system.

Total Water Fund - Closed Work Orders

<u>\$ 1,896,100</u>	<u>\$ 1,658,444</u>	<u>\$ 237,656</u>
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