



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: AUGUST 28, 2017

GENERAL MANAGER'S REPORT

ITEM NO: 14

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of July 30, 2017

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

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

Recap of open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000

080022 / 01	Wood Streets Streetlights Phase I (WO 809099 & 0809101)	10/18/13	1,909,600	1,909,600	1,791,660	117,940	03/01/16	94%	95%	Construction complete. Pending as-builts and close out phase.
070016 / 07	T-29596 UG Electric Service to 116 Lots at Krameria Ave (WO 0704432 & 0704434)	07/20/07	500,000	500,000	468,292	31,708	03/13/14	94%	95%	The developer is pending the construction of 8 homes and electric service installations, construction is ongoing. Anticipated to be completed in 2017.
070016 / 02	Tract 29515 Phase 2 (47 SFR) Lots 39-85 & Sewer Lift Station (WO 0702819 & 0702820)	11/16/07	345,000	345,000	344,419	581	06/01/16	100%	95%	Construction complete. Pending as-builts and close out phase.

Project 050009 *Conceptual Design Of Transmission Substation*

642975	230 KV Station Conceptual Design	03/05/15	42,605,521	42,605,521	26,488,695	16,116,826	07/27/17	62%	15%	RTRP FEIR Council certified on 02/05/2013. Engineering and easement acquisitions progressing. CPUC issues CPCN end of 2017. RPU & SCE working jointly to obtain regulatory permits and approvals. Estimated construction start of 69kV facilities is 2nd quarter 2018. RTRP projected completion end of 2023.
812940	69 KV Station Conceptual Design	11/06/09	22,500,000	14,088,844	9,736,547	4,352,297	06/29/17	69%	99%	Construction completed 05/31/2014. 9 days ahead of schedule. Remaining work - Substation as-builts and joint pole work by AT&T along Chicago Ave.
1021987	Phase 1A OH Installation of 3 Poles on Tenth St from Commerce to Park for the STP Project	(1)	(1)	64,000	63,362	638	03/17/11	99%	100%	Closed 08/31/2011. This WO is part of the Sub-transmission Project (STP) under project/Subproject 050009. Pending formal closure of STP project.
1021988	Phase 1A UG Installation on Tenth St. from Commerce to Park for the STP Project	(1)	(1)	760,000	763,590	(3,590)	10/24/13	100%	100%	Closed 02/01/2012.
1022853	Phase 1B OH Distribution Work Tenth St from Park Ave to Victoria Ave	(1)	(1)	175,000	172,278	2,722	06/11/14	98%	100%	Closed 07/09/2012. This WO is part of the Sub-transmission Project (STP) under project/Subproject 050009. Pending formal closure of STP project.
1022854	Phase 1C OH Distribution Work - Pole Line from Tenth & Commerce to Twelfth St & Chicago for STP Project	07/16/10	1,500,000	1,500,000	1,734,788	(234,788)	07/24/14	116%	100%	Closed 06/18/2012. This WO is part of the Sub-transmission Project (STP) under project/Subproject 050009. Pending formal closure of STP project.
1022905	STP for Overhead to Underground at Martin Luther and Chicago, also along Ohio and Chicago Ave	(1)	(1)	500,000	500,166	(166)	10/24/13	100%	100%	Closed 03/06/2012. This WO is part of the Sub-transmission Project (STP) under project/Subproject 050009. Pending formal closure of STP project.
1107488	Phase II STP - Vine St Poles	(1)	(1)	9,000	9,018	(18)	10/24/13	100%	100%	Closed 03/21/2012.
1111059	STP Phase 2	(1)	(1)	7,000,000	5,326,618	1,673,382	10/31/14	76%	100%	Closed 10/14/2014. This WO is part of the Sub-transmission Project (STP) under project/Subproject 050009. Pending formal closure of STP project.
Total 050009 / 01:				66,702,365	44,795,062	21,907,303				

1722605	GO 165 Overhead and Underground Electric Distribution System Inspection Program	06/26/17	2,844,000	2,844,000	-	2,844,000	03/08/17	0%	0%	Coordinating with contractor on start date.
1719921	Magnolia Ave Fiber Optic Cable Network Project	04/24/17	2,189,489	2,189,489	25,632	2,163,857	07/27/17	1%	1%	In construction.
1707248	Advanced Metering Infrastructure	06/12/17	3,000,000	790,000	-	790,000	09/23/16	0%	0%	Project kick-off meeting held on 7/12/17.

Riverside Public Utilities
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								% Spent	% Completed	
1704094	Annexation of electrical facilities and real property from Southern California Edison within the City of Riverside	10/24/16	444,000	444,000	-	444,000	No activity	0%	0%	Will be going to litigation.
1619634	Electric ODMS Portion of Enterprise Agreement with OSISoft.	05/09/16	3,189,500	2,474,500	1,792,291	682,209	06/30/17	72%	60%	Year 1 of project is complete and in service. Year 2 of project is underway.
1619571	Street and Landscape Improvements at Plaza Substation	10/24/16	460,000	460,000	429,169	30,831	07/27/17	93%	95%	All construction work is completed. Pending as-builts and close out phase.
1616413	Extension of Underground Conduits at Plaza Substation on Elizabeth Street	06/27/16	220,000	220,000	251,280	(31,280)	06/15/17	114%	100%	Project completed. Work order to be closed.
1611216	City Wide Streetlight -Light Emitting Diode Conversion Program	07/25/16	1,150,000	1,150,000	159,309	990,691	06/30/17	14%	17%	Design services are 17%. Estimated completion Sept 2019.
1607467	Replacement of Electrical Switch on Magnolia Ave. and Harrison Street.	10/24/16	230,000	230,000	241,348	(11,348)	07/27/17	105%	100%	Project completed. Work order to be closed in August 2017.
1606533	Installation of Circuit Tie on Palm Avenue Circuit 454	06/27/16	228,000	228,000	273,379	(45,379)	06/30/17	120%	100%	Project completed. Work order to be closed.
1604758	7105 Old Frontage 215 Rd-Joint Project with SCE to UG Lines for new development	-	-	208,182	188,944	19,238	06/30/17	91%	95%	All construction work is completed. Pending as-builts and close out phase.
1603079	Springs & Orangecrest Substations 69 kV Breaker and Relay Replacement Project	02/19/16	1,700,000	1,700,000	1,119,828	580,172	07/27/17	66%	60%	Completed equipment procurement and design. Pending construction.
1601400	Substation Switchgear Upgrade Project	07/25/16	5,530,000	5,530,000	2,784,222	2,745,778	07/27/17	50%	45%	In construction. Commissioned Freeman SWGR4.
1525536	Electrical Feeder Extension on Diana Ave	01/22/16	850,000	850,000	800,015	49,985	07/13/17	94%	95%	All construction work is completed. Pending as-builts and close out phase.
1525067	Cable Rejuvenation Pilot Project	07/25/16	449,000	449,000	311,639	137,361	06/01/17	69%	95%	All construction work is completed. Pending as-builts and close out phase.
1524282	Land Mobile Radio (LMR) system	09/26/16	3,000,000	3,000,000	2,862,659	137,341	07/27/17	95%	85%	Construction/installion completed for both Water and Electric. System was placed in service May 2017. Final implementation
1523553	Wood Streets Streetlight Replacement Project Phase 2	02/13/17	2,300,000	2,300,000	289,990	2,010,010	07/31/17	13%	5%	Construction started on 5/22/17.
1521822	Plaza Substation 4 kV to 12kV conversion Circuit 456	09/18/15	933,000	933,000	131,926	801,074	06/01/17	14%	50%	In construction phase.
1521820	Plaza Substation 4 kV to 12kV conversion Circuit 452	09/18/15	1,446,000	1,446,000	723,599	722,401	07/31/17	50%	50%	In construction phase by Electric Crews.
1518525	Underground Electrical Installation at Jurupa Avenue for New Tract 28987	11/06/15	320,000	320,000	13,740	306,260	06/01/16	4%	0%	Still active - issued to construction - 07/26/2017. However, construction is on hold by customer.
1514752	Mobile Substation #3 - RFP 1576	05/23/16	2,198,993	2,198,993	1,814,868	384,125	07/27/17	83%	95%	Mobile substation was delivered on 06/12/2017. Testing and commissioning is ongoing. Testing is anticipated to be completed by mid-September 2017. In construction phase.
1503125	Magnolia Substation Circuit 46 4 KV to 12 KV Conversion, Overhead and Underground Project	04/17/15	1,833,000	1,833,000	1,673,476	159,524	07/31/17	91%	60%	
1503115	Pole and Overhead Switch Replacement on the Freeman-Kaiser-Harvey Lynn 69kV Transmission Line	12/18/15	300,000	300,000	175,829	124,171	06/01/17	59%	50%	Pending construction coordination with customer. Material has been received.
1501824	Plaza Substation 4 kV to 12kV Conversion Circuit 454	09/18/15	1,349,000	1,349,000	835,630	513,370	06/30/17	62%	95%	Construction completed on 05/26/2017. Pending as-builts and close-out phase.

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								% Spent	% Completed	
1423750	Riverside Substation to Hunter Substation Fiber Optic Cable Network	04/24/17	465,000	465,000	32,080	432,920	07/27/17	7%	10%	Engineering design in progress.
1423746	Fiber Use License Agreement With County of Riverside	01/22/16	325,000	325,000	340,484	(15,484)	06/30/17	105%	95%	Construction complete. Pending as-builts and close out phase.
1411795	Magnolia4 kV to 12 kV Underground Conversion	04/02/15	2,250,000	2,250,000	1,634,328	615,672	06/01/17	73%	90%	Substructure work completed. Crew cabling /cutover ongoing.
1411145	La Colina Substation Switchgear 3 & 4 Relay Replacement Project	03/21/14	534,051	534,051	72,523	461,528	06/01/17	14%	25%	Project is on hold.
1409723	Conduit and Cable Replacement for Canyon Crest Area Circuit 1215	11/06/15	1,175,000	1,175,000	1,028,433	146,567	07/13/17	88%	95%	Construction complete. Pending as-builts and close out phase.
1319813	Conduit and Cable Replacement for Canyon Crest Area Circuit 1218	04/10/17	967,000	967,000	220,191	746,809	07/27/17	23%	10%	Contractor work expected to be complete 08/31/17. RPU field work expected to be completed Fall 2017.
1319390	Magnolia 4 kV to 12 kV Conversion Overhead Project	09/19/14	1,577,100	1,577,100	1,786,478	(209,378)	06/21/17	113%	94%	Cutover pending by RPU field forces.
1311245	Line Protection Relay Replacement and Substation Automation System Upgrade Project	03/21/14	1,925,805	1,925,805	1,971,617	(45,812)	06/01/17	102%	75%	Construction in progress. Work at Springs substation has been completed. Staff is woking on as-built drawings.
1309568	Distribution Automation Program	01/18/13	960,000	960,000	681,312	278,688	07/15/17	71%	65%	Grid sensor devices are being installed throughout the city.
1202319	Riverside Ave RR Grade Separation Project	11/15/13	616,200	616,200	703,254	(87,054)	06/30/17	114%	100%	Work order was closed on 07/31/17.
1104202	CIS Replacement Project	06/01/12	8,859,000	8,859,000	8,242,223	616,777	11/30/16	93%	95%	System is now live, working on post go-live fixes and enhancements. CIS closure plan is expected to be completed by 4th Quarter 2017.
1024965	Electronic Security Monitoring and Access Control Project	09/16/11	5,000,000	5,000,000	5,110,869	(110,869)	07/13/17	102%	100%	Project completed. Work order to be closed.
1024305	Planning, Engineering, Training & Consulting Services for Electric SCADA System Hardware & Software Upgrades	06/27/16	2,938,307	2,938,307	2,737,329	200,978	08/10/16	93%	99%	Majority of project complete. Staff is continuing work on added scopes of building and tuning network model in SCADA for OpenNET and OpenOTS. To be completed by December 31, 2017.
1020992	Seismic Upgrades at La Colina & Hunter Substations	05/03/13	649,885	649,885	457,843	192,042	06/01/16	70%	90%	Project on hold. Pending determination of rehabilitation/replacement of substation
0913192	Tyler Street Widening Project	08/07/15	816,000	816,000	871,531	(55,531)	06/30/17	107%	95%	Construction complete. Pending as-builts and close out phase.
Total Electric Fund - Open Work Orders					131,962,477	90,188,701	41,773,776			

Notes:

(1) This work is part of Project 050009 & included within the \$24,000,000 authorized by PU Board.

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
July 2017

Work Order Number	Job Title	Board	Board	Job Estimate	Life to Date Total	Available Balance	Last Activity Date	Job Status (Based on Board Est.)		Project Status
		Approval Date	Approved Estimate		as of 07/31/2017			% Spent	% Completed	
Recap of open capital work orders with Budgeted or Actual expenditures > \$200,000										
1112059	UA 21702 - Ivy St Bridge - Caltrans SR-91 HOV Project	08/19/11	1,600,000	1,600,000	1,333,551	266,449	06/01/17	83%	99%	Project complete. Working on final project close out.
1107917	Magnolia Ave and Ramona Dr Main Replacement Project	04/10/17	2,704,000	2,704,000	405,448	2,298,552	07/31/17	15%	48%	Construction is underway. Estimated project completion date is November 2017.
1112062	UA 21699 - Miscellaneous Utility Relocations - Caltrans SR-91 HOV Project	11/18/11	1,555,000	1,555,000	454,206	1,100,794	06/30/17	29%	99%	Project complete. Working on final project close out.
1202806	Riverside North Aquifer Storage & Recovery Project	10/07/11	1,800,000	1,800,000	447,714	1,352,286	06/30/17	25%	10%	Next phase of the project is waiting on the environmental evaluation.
1415931	California and Monroe Water Main Replacement Project	12/12/14	973,500	973,500	820,305	153,195	06/01/17	84%	95%	Major construction complete, however contractor still has items that need to be completed on the project.
1422097	Indiana Avenue and Mary St. Water Distribution Main Replacement Project	07/10/17	2,017,000	2,017,000	112,379	1,904,621	06/01/17	6%	10%	Design is completed. Preconstruction meeting is scheduled.
1424014	Gratton Booster Station Replacement Project	01/23/15	1,311,100	1,311,100	1,077,016	234,084	06/01/17	82%	99%	Substantially completed. Work order to close in August.
1424073	Water Asset Management	06/20/14	2,530,400	2,048,689	2,140,968	(92,279)	06/30/17	105%	95%	The asset management system is currently in service. Consultant is continuing to support the improvements and automations.
1504840	Santa Ana River Habitat Conservation Plan	09/05/14	325,000	325,000	77,128	247,872	06/01/16	24%	25%	Working on biological evaluation.
1507007	Jasmine and Columbus 12-Inch Main Replacement Project	10/03/14	679,000	679,000	-	679,000	No Activity	0%	0%	Project is on hold.
1508449	Palmyrita Well - Rehabilitation Projects	11/07/14	215,000	215,000	7,044	207,956	06/01/17	3%	5%	Project is on hold as staff evaluates plan for continued water operations.
1513392	Colorado Ave and Toyon Road Main Replacement Project	05/22/17	2,978,000	2,978,000	195,955	2,782,045	07/31/17	7%	12%	Construction is underway. Estimated project completion date is January 2018.
1515505	Amb's Drive Water Main Replacement Project	06/06/16	1,523,000	1,523,000	1,100,876	422,124	07/13/17	72%	100%	Construction is complete. Work Order to be closed.
1515504	Arroyo Drive Water Main Replacement Project	11/14/16	2,040,000	2,040,000	1,611,479	428,521	07/27/17	79%	75%	Contractor is constructing the last phase work at Victoria Club.
1515609	Arlington Ave. & Western Ave. Water Main Replacement Project	06/06/16	1,241,000	1,241,000	931,803	309,197	08/02/17	75%	85%	Field work construction is complete. Contractor needs to finish Arlington Ave Extension project before the paving will be completed.
1518913	Brockton Ave. & Palm Ave. Railroad Crossings Water Pipeline Replacement Project	08/22/16	688,000	688,000	659,307	28,693	06/30/17	96%	100%	Project is completed. Work order to be closed.
1521905	Jackson Street Recycled Water Pipeline Phase 1	01/22/16	8,609,000	8,609,000	544,744	8,064,256	07/27/17	6%	5%	Design completed. In construction.
1602941	Larchwood Place Water Main Replacement Project	10/16/15	865,000	865,000	473,455	391,545	06/30/17	55%	100%	Construction and paving complete. Work Order to be closed.
1610216	Tree Irrigation System Project	02/19/16	240,000	240,000	230,449	9,551	06/30/17	96%	99%	Project is complete. Work order to be closed.
1619634	Water ODMS Portion of Enterprise Agreement with OSIsoft	05/09/16	1,717,500	1,332,500	935,865	396,635	05/09/16	70%	60%	First year of the project is complete. Second year is underway.
1619730	Tenth and Eleventh Street Water Main Replacement Project	08/22/16	1,745,000	1,745,000	1,546,181	198,819	06/22/17	89%	85%	Currently in phase 4 of construction, Orange St. Estimated completion in August.
1703247	Interstate 215 Barton Road Pipeline Relocation and Encasement Project	09/26/16	611,000	611,000	581,428	29,572	06/22/17	95%	100%	Construction is complete. Work order to close.
1703061	Crestlawn Norco System Expansion Project	11/14/16	1,339,000	1,339,000	1,118,928	220,072	06/26/17	84%	80%	Pipe installation completed. Water quality assurance test is underway.
1707248	Advanced Metering Infrastructure	06/12/17	3,000,000	460,000	-	460,000	09/23/16	0%	0%	Project kick-off meeting held on 7/12/17.
1712389	Raub 7 Well Groundwater Well Rehabilitation Project	02/13/17	267,288	267,288	65,450	201,838	06/15/17	24%	30%	Work began on 03/1/17. Project currently in testing phase. Construction is underway.
1712675	Raub 6 Well Groundwater Well Rehabilitation Project	02/13/17	297,582	297,582	11,857	285,725	05/04/17	4%	10%	Work began on 04/30/17. Anticipated completion is 11/30/17.
1712676	Tippecanoe Well Groundwater Well Rehabilitation Project	02/13/17	301,454	301,454	65,465	235,989	06/15/17	22%	30%	Work began on 03/1/17. Project currently in testing phase. Construction is underway.

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July 2017

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		Approval Date	Approved Estimate		as of 07/31/2017			% Spent	% Completed	
1712677	Gage 92-3 Well Groundwater Well Rehabilitation Project	02/13/17	264,626	264,626	10,383	254,243	06/01/17	4%	10%	Work began on 04/30/17. Anticipated completion is 11/30/17.
1712678	Flume 3 Well Groundwater Well Rehabilitation Project	02/13/17	255,672	255,672	94,973	160,699	06/15/17	37%	30%	Work began on 03/1/17. Project currently in testing phase. Construction is underway.
1722078	Jackson Street Phase 1 & 2 Recycled Water Sites Retrofit Project	04/24/17	434,730	434,730	9,963	424,767	06/29/17	2%	5%	Construction in progress.
1727627	Replacement of Two John W. North Treatment Plant Trains	07/10/17	368,000	368,000	-	368,000	No Activity	0%	0%	No Activity.
Total Water Fund - Open Work Orders					41,089,141	17,064,320	24,024,821			

Items in [blue](#) represent work orders with no activity in the last 60 days.



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: AUGUST 28, 2017

GENERAL MANAGER'S REPORT

ITEM NO: 14

Riverside Public Utilities

Closed Work Order Reports

As of July 30, 2017

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

Work Order Number	Description	Start Date	End Date	Estimated Cost	Work Order Actual	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 July 2017.

Total Electric Fund - Closed Work Orders				<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	
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July 2017

Work Order Number	Description	Start Date	End Date	Estimated Cost	Work Order Actual	Variance	% Variance
CLOSED Capital Work Orders with Budget or Actual expenditures > \$200,000							
Please note: No Closed Water Work Orders over \$200,000 to report for the month of July 2017.							
Total Water Fund - Closed Work Orders				<u><u>\$ -</u></u>	<u><u>\$ -</u></u>	<u><u>\$ -</u></u>	