



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: JUNE 24, 2019

GENERAL MANAGER'S REPORT

ITEM NO:

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of May 31, 2019

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
May-19

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date Total as of 5/31/2019	Life to Date Total as of 5/31/2019	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

OVERHEAD

Various	GO-165 Pole Replacements - Citywide	09/25/17	1,125,000	1,125,000	-	835,400	289,600	Various	74%	100%	Project completed, pending final billing
Various	GO-165 Pole Replacements - Citywide	08/27/18	2,227,000	2,227,000	-	151,467	2,075,533	Various	7%	0%	In construction.
080022 / 01	Wood Streets Streetlights Phase I(5)	10/18/13	1,909,600	1,909,600	-	1,792,642	116,958	06/14/18	94%	95%	Completed, pending as-builts.
1503112	Plaza substation - Circuit 450	01/28/19	2,174,000	2,174,000	66,257	309,337	1,864,663	05/17/19	14%	10%	Pending start date
1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	783,676	1,029,797	(96,797)	05/21/19	110%	90%	In construction.
1523553	Wood Streets Streetlights Phase 2	02/13/17	2,300,000	2,300,000	8,246	2,122,524	177,476	01/31/19	92%	95%	Completed, pending as-builts.
1708710	Plaza Substation - Circuit 458	04/09/18	1,170,000	1,170,000	402,118	612,565	557,435	05/18/19	52%	90%	In construction.
1808449	Plaza Substation - Circuit 448	07/09/18	973,000	973,000	496,685	526,793	446,207	05/18/19	54%	60%	In construction.
1808451	Plaza Substation - Circuit 443	03/29/18	415,000	415,000	256,179	329,262	85,738	05/02/19	79%	65%	In construction.
Subtotal of OVERHEAD					13,226,600	2,013,161	7,709,787	5,516,813			

UNDERGROUND

1409723	Canyon Crest Area 1E	11/06/15	1,175,000	1,175,000	-	1,032,476	142,524	02/08/18	88%	95%	In Litigation
1505212	Canyon Crest Area 1F (Phase 2)	01/28/19	1,430,000	1,430,000	738,931	933,522	496,478	05/17/19	65%	10%	In construction.
1713398	Canyon Crest Area 1F (Phase 1)	01/08/18	739,000	739,000	123,964	743,429	(4,429)	03/21/19	101%	100%	Completed, pending as-builts.
1724058	Canyon Crest Area 2 Cable Rejuvenation Project	03/25/19	746,000	746,000	16,001	36,459	709,541	05/16/19	5%	0%	Pending start date/notice to proceed
Subtotal of UNDERGROUND					4,090,000	878,896	2,745,886	1,344,114			

SUBSTATION

1407577	Metal Gate Replacement	04/09/18	337,699	337,699	15,123	32,208	305,491	05/16/19	10%	5%	In design
1601400	Springs, Freeman and Mt. View	07/25/16	5,530,000	5,530,000	429,829	4,880,407	649,593	05/02/19	88%	85%	In construction
1603079	Springs & Orangecrest Equip. Replacement Proj.	02/19/16	1,700,000	1,700,000	179,689	1,454,577	245,423	05/02/19	86%	60%	In construction
1808341	Substation Utility Storage Facility	06/11/18	407,385	407,385	82,345	94,571	312,814	04/02/19	23%	5%	In design
1812830	Nine (9) Substation Battery Chargers Upgrade Proj.	02/12/18	384,000	384,000	205,608	371,830	12,170	04/18/19	97%	95%	Completed, pending as-builts.
1814007	Substation Capacitor Upgrade Project	01/22/18	5,306,000	5,306,000	2,867,044	3,495,431	1,810,569	05/20/19	66%	15%	Completed construction of 2 capacitors
1816163	Substation Automation Upgrade Project	02/26/18	2,027,679	2,027,679	380,181	1,042,437	985,242	05/16/19	51%	40%	8 substations are in design - Plaza Design Completed,Casa & University Constructions are completed

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					Total as of 5/31/2019	Total as of 5/31/2019			(Based on Proj. Est.)		
									% Spent	% Completed	
1817274	Vista Substation	02/26/18	836,175	836,175	-	782,757	53,418	05/08/19	94%	99%	Construction is completed. In the process of closing the wo.
1822052	Harvey Lynn Substation Site Expansion	10/22/18	2,100,000	2,100,000	656,045	700,616	1,399,384	05/16/19	33%	10%	PO's will be issues next month to contractors.
1826061	Riverside power plants Arc Flash Mitigatino	06/11/18	497,000	497,000	14,524	14,671	482,329	04/04/19	3%	3%	In design
1826998	Multi-Substation Circuit Breaker Remote Racking Project	11/26/18	619,000	619,000	8,579	14,399	604,601	05/16/19	2%	2%	In Construction
1826767	Hunter Substation Replacement Project	01/14/19	2,000,000	2,000,000	34,202	49,727	1,950,273	05/16/19	2%	1%	Board approved
1816638	Freeman Substation & Mt. View Substation	05/14/18	4,202,827	4,202,827	3,323,714	3,332,030	870,797	05/20/19	79%	1%	In procurement phase.
1822318	Multi Substation Transformer Upgrade/ Recondition	06/25/18	3,082,617	3,082,617	2,512,912	2,513,646	568,971	05/16/19	82%	85%	In construction
1810532	Freeman Switchgear and Transformer Upgrade	11/05/18	3,638,268	3,638,268	16,256	62,461	3,575,807	05/16/19	2%	1%	Board approved. Completed 80% of phase 1 design
Subtotal of SUBSTATION				32,668,650	10,726,051	18,841,768	13,826,882				
RECURRING/OBLIGATION TO SERVE											
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.
1024305	Electric SCADA System Upgrades	07/01/11	2,938,307	2,938,307	-	2,737,329	200,978	08/10/16	93%	99%	Completed, pending closure.
1309568	Distribution Automation Program	01/18/13	960,000	960,000	798	683,640	276,360	03/01/19	71%	65%	In construction.
1423748	Freeman Substation to Orangecrest Substation	10/22/18	1,265,000	1,265,000	196,598	208,320	1,056,680	05/16/19	16%	1%	In design phase
1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	46,520	226,521	73,479	12/27/18	76%	50%	Drilling contractor meeting w/crews, pending start date
1518525	Jurupa Avenue - New Tract 28987	11/06/15	320,000	320,000	-	13,740	306,260	06/01/16	4%	0%	On-hold.
1524282	Land Mobile Radio (LMR) system (Electric Portion)	09/26/16	3,000,000	1,650,000	-	1,692,952	(42,952)	04/26/19	103%	95%	Completed, pending closure.
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	149,731	642,213	507,787	05/20/19	56%	70%	In design.
1709454	12 kV Electrical Feeders for the California Air Resources Board Project	01/14/19	757,000	757,000	95,548	165,666	591,334	05/16/19	22%	1%	Design completed, In construction
1719921	Magnolia Avenue	04/24/17	2,189,489	2,189,489	426,313	1,859,953	329,536	05/16/19	85%	85%	Completed, pending as-builts.
1722321	Norte Vista Sidwalk Improvements Project	02/12/18	888,000	888,000	474,570	554,306	333,694	05/16/19	62%	15%	In construction.
1725687	Wells-Arlanza Sidewalk Improvements Project	01/08/18	460,000	460,000	341,649	418,876	41,124	05/16/19	91%	65%	In construction.
1917203	Auto Center Reliablilty Project	04/22/19	250,000	250,000	32,283	32,441	217,559	05/16/19	13%	12%	Board approved. On hold
Subtotal of RECURRING/OBLIGATION TO SERVE				13,627,796	1,764,010	9,704,249	3,923,547				

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									% Spent	% Completed	

System Automation

1619634	Operational Data Management System - Electric	06/12/17	4,907,000	2,474,500	208,120	2,407,684	66,816	04/30/19	97%	70%	Seeking approval to extend consultant contract for project years 4 & 5 for additional integration and development
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,660,000	1,450,000	90,993	90,993	1,359,007	05/06/19	6%	10%	Planning stage of project; preparing for Alpha proof-of-concept
1911437	Citywide Geographic Information System Tech. Upgrade Project	12/10/18	1,206,521	480,000	-	-	480,000	12/10/18	0%	1%	Board approval 12/10/18
1914017	Cyber Security Upgrade Project RERC and Springs	03/25/19	220,024	220,024	-	-	220,024	04/22/19	0%	10%	Board approved 4/25. Equipment on hand.
Subtotal of SYSTEM AUTOMATION				4,624,524	299,113	2,498,677	2,125,847				

OTHER PROJECT

1104202	CIS Replacement	06/01/12	9,200,000	8,859,000	275,244	8,694,741	164,259	04/15/19	98%	95%	Completed, pending closure.
Subtotal of OTHER PROJECT				8,859,000	275,244	8,694,741	164,259				

RTRP

642975	Riverside Transmission Reliability Project (RTRP)	01/20/06	42,605,521	42,605,521	5,066,928	33,421,548	9,183,973	05/20/19	78%	15%	In design.
0812940	Sub-Transmission Project (STP) (3)	07/17/09	24,000,000	24,000,000	-	18,312,636	5,687,364	05/31/18	76%	99%	Completed, pending as-builts.
Subtotal of RTRP				66,605,521	5,066,928	51,734,184	14,871,337				

GRAND TOTAL ELECTRIC FUND - Open Work Orders

143,702,091	21,023,401	101,929,292	41,772,799
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Notes:

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

(2) Project estimate reflects Electric capital portion only.

(3) WO 0812940 is part of Project 050009 which was approved by Board for \$24,000,000. Project 050009 includes various sub-work orders closed in prior years.

(4) Work includes both WO 0704432 & 0704434

(5) Work includes both WO 809099 & 0809101

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
May-19

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					Total as of 05/31/2019	Total as of 05/31/2019			% Spent	% Completed	
Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000											
DISTRIBUTION PIPELINE											
1507007	Jasmine and Columbus	10/03/14	679,000	679,000	5,447	52,714	626,286	02/13/19	8%	0%	On-hold.
1602941	Larchwood Place	10/16/15	895,000	895,000	-	477,602	417,398	03/31/18	53%	100%	Completed, pending closure.
1615173	Water Cust. Development - 58 Magnolia Ctr.	(3)	(3)	237,767	-	262,912	(25,145)	03/31/18	111%	90%	Completed, pending as-builts/mapping
1726679	Iowa Ave 12-inch Water Main Extension	09/24/18	353,000	353,000	257,924	302,170	50,830	04/30/19	86%	90%	Final grade not set. FF still need to set final domestic services and vaults, after Public Works final grading. Blow off hydrants and air valve need final placement once final grade complete. Waiting for UCR for right-of-way approval.
1905091	Iowa Ave 12-inch Water Main Extension	09/24/18	269,000	269,000	74,724	74,724	194,276	08/23/18	28%	90%	
Subtotal of DISTRIBUTION PIPELINE				2,433,767	338,096	1,170,122	1,263,645				
DISTRIBUTION FACILITIES											
1524282	Land Mobile Radio (LMR) system (Wtr Portion)	09/26/16	3,000,000	1,350,000	-	1,283,051	66,949	04/26/19	95%	95%	Completed,pending commisioning.
1727999	Pressure Reducing Station Replacement	07/09/18	599,000	599,000	474,211	492,172	106,828	05/16/19	82%	95%	In construction.
1827140	Cooley J Groundwater Well	09/24/18	811,000	811,000	684,544	691,308	119,692	05/16/19	85%	100%	Complete - Pending Closure
1902331	Stiles Groundwater Well	09/24/18	327,000	327,000	299,680	299,680	27,320	07/18/18	92%	100%	Complete - Pending Closure
1902332	Garner 5 Groundwater Well	09/24/18	355,000	355,000	321,673	321,673	33,327	07/18/18	91%	100%	Complete - Pending Closure
1904589	Potable Water Emergency Interconnection with the City of Norco	03/25/19	340,000	340,000	101,232	101,232	238,768	03/25/19	30%	30%	In construction.
Subtotal of DISTRIBUTION FACILITIES				3,782,000	1,881,340	3,189,116	592,884				
TRANSMISSION PIPELINE											
1612632	Magnolia Ave Techite Pipe Replacement Project	01/08/18	7,335,000	7,335,000	6,118,236	6,529,100	805,900	05/16/19	89%	95%	In construction.
1903811	Iowa Avenue Transmission Main Replacement	10/22/18	2,140,000	2,140,000	1,808,934	1,808,934	331,066	08/16/18	85%	100%	Complete - Pending Closure
Subtotal of TRANSMISSION PIPELINE				9,475,000	7,927,170	8,338,034	1,136,966				

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					Total as of 05/31/2019	Total as of 05/31/2019			(Based on Proj. Est.)		
									% Spent	% Completed	
WATER SUPPLY											
1521905	Jackson Street - Phase 1	01/22/16	9,039,000	8,839,000	1,167,001	8,564,201	274,799	01/24/19	97%	100%	Completed, pending closure.
1722078	Jackson St - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,370	434,370	102,107	200,459	233,911	05/16/19	46%	34%	In design
Subtotal of WATER SUPPLY				9,273,370	1,269,108	8,764,660	508,710				
SYSTEM AUTOMATION											
1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,332,500	112,064	1,313,968	18,532	04/30/19	99%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Water	06/12/17	3,660,000	460,000	-	-	460,000	05/06/19	0%	2%	Project on hold
Subtotal of SYSTEM AUTOMATION				1,792,500	112,064	1,313,968	478,532				
OTHERS											
1202806	Riverside North Aquifer Storage & Recovery	10/07/11	1,800,000	1,800,000	-	447,714	1,352,286	07/01/17	25%	10%	Environmental phase led by SBVWD
1504840	Santa Ana River Habitat Conservation	09/05/14	325,000	325,000	-	134,256	190,744	06/30/17	41%	50%	In design
Subtotal of OTHERS				2,125,000	-	581,970	1,543,030				
GRAND TOTAL OF WATER FUND - Open Work Orders				28,881,637	11,527,777	23,357,870	5,523,767				

NOTE:

- (1) Board approved estimate is the total approved amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.
- (2) Project estimate reflects Water portion only.
- (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: JUNE 24, 2019

GENERAL MANAGER'S REPORT

ITEM NO:

Riverside Public Utilities

Closed Work Order Reports

As of May 31, 2019

Riverside Public Utilities
Closed Capital Work Order Summary Report - Electric Fund
May-19

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

RECURRING/OBLIGATION TO SERVE

1423750	Riverside Substation to Hunter Substation	4/24/2017	4/7/2019	\$ 465,000	\$ 418,676	\$ 46,324	9.96%
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1) Note on Final Project Cost:

The Project was completed under budget due to RPU field preplanning and efficient work practices.

2) Impact to Customer Service:

Installation of a new fiber optic cable network provides alternate, short and direct path for communication backhaul.

3) Impact to System Reliability:

The newly installed communication backhaul improves the system capacity and reliability.

Total Electric Fund - Closed Work Orders

<u>\$ 465,000</u>	<u>\$ 418,676</u>	<u>\$ 46,324</u>
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Closed Capital Work Order Summary Report - Water Fund
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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

1508449	Palmyrita Well Rehab	11/7/2014	2/25/2019	\$ 215,000	\$ 8,932	\$ 206,068	95.85%
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1) Note on Final Project Cost:

The project was completed within the estimated cost.

2) Impact to Customer Service:

This project was able to restore its declining water production from about about 1,200 gallons per minute up to about 2,000 gallons per minute.

3) Impact to System Reliability:

This rehabilitation project improved reliability of the water supply system by increasing the life of the well and restoring its working conditions as the facility degrades as the years go by.

Total Water Fund - Closed Work Orders

<u>\$ 215,000</u>	<u>\$ 8,932</u>	<u>\$ 206,068</u>
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