

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: SEPTEMBER 26, 2016

GENERAL MANAGER'S REPORT

ITEM NO: 19

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of August 31, 2016

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Project /	ڊ ا	¥					Life to Date			Job	b Status			
Subproject	9 3	e work	Job Title	Board	Board	Job	Total	Available	Last	(Based or	Board Est.)			
or WO	utsid	Design wor Outside Field Work		Approval	Approved	Estimate "Project/WO"	as of 8/31/2016	Balance	Activity Date	% Spent	% Completed	Contact	COMMENTS	
Recan of one			I ders/Projects with Budgeted or Actual expenditu	Date	Estimate	FIOJECUNO	0/31/2010		Date		Completed			
			UA 21272 - Caltrans 91 HOV - Various Relocation Projects (WO 1022592 & 1119435-1119445)	01/21/11	4,321,774	4,321,774	3,513,064	808,710	08/22/16	81%	95%	Ong	As-built and depreciation.	
080022 / 01	no	o yes	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%	90%	Revuelta	Pending paving that will be completed by PW department. Summer 2016.	
070016 / 07	ye	s yes	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%	Marshall	8 homes pending construction and electric service installations, construction is ongoing. Anticipated to be completed by November 2016.	
070016 / 02	no	o no	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%	99%	Balderrama	Service cables have been installed to pie plated meter panels on 09/12/2015. Waiting for as-builts.	
Project 050009	9 :		Conceptual Design Of Transmission Substation											
WO 642975	yes	s yes	230 KV Station Conceptual Design	03/05/15	42,605,521	42,605,521	24,454,901	18,150,620	08/22/16	57%	15%	Torelli	The EIR for RTRP was certified by Council on 02/05/2013. Engineering and easement acquisitions progressing. SCE seeking CPCN. RPU & SCE working jointly to obtain regulatory permits and approvals. Estimated construction start is 2nd quarter 2017.	
WO 0812940	yes	s yes	69 KV Station Conceptual Design	11/06/09	22,500,000	14,088,844	9,736,624	4,352,220	06/30/16	69%	99%	Torelli	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.	
WO 1021987	yes	s yes	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%	Politte	Closed 08/31/2011.	
WO 1021988	yes	s yes	Phase 1A UG Installation on Tenth St. from Commerce to Park for the STP Project	(1)	(1)	760,000	763,590	(3,590)	08/18/11	100%	100%	Politte	Closed 02/01/2012.	
WO 1022853	no	yes	Phase 1B OH Distribution Work Tenth St from Park Ave to Victoria Ave	(1)	(1)	175,000	172,278	2,722	06/21/12	98%	100%	Politte	Closed 07/09/2012.	
WO 1022854	no	yes	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)	03/20/12	116%	100%	Cardenas	Closed 06/18/2012.	
WO 1022905	no	yes	STP for Overhead to Underground at Martin Luther and Chicago, also along Ohio and Chicago	(1)	(1)	500,000	500,166	(166)	05/12/11	100%	100%	McLaury	Closed 03/06/2012, waiting for formal closure of this entire STP Project.	
WO 1107488	no	no no	Ave Phase II STP - Vine St Poles	(1)	(1)	9,000	9,018	(18)	01/26/11	100%	100%	Politte	Closed 03/21/2012.	
WO 1111059	yes	s yes	STP Phase 2	(1)	(1)	7,000,000	5,326,618	1,673,382	09/30/14	76%	100%	Politte	Closed 10/14/2014.	
				Total	050009 / 01:	66,702,365	42,761,345	23,941,020						
WO 1623473			Electric Asset Management System Project, Amendment to Professional Services Agreement with Westin Engineering, Inc	05/11/16	493,000	493,000	-	493,000	No Activity	0%	0%	Rocco	Board approved on 07/11/2016.	
WO 1619634	no	o no	Electric ODMS Portion of Enterprise Agreement with OSIsoft.	05/09/16	2,312,000	2,312,000	-	2,312,000	05/09/16	0%	0%	CJSmith	Industrial Evolution Agreement and OSIsoft agreement executed. Funds encumbered for OSI agreement but not expensed. Project at beginning of implementation stage.	
WO 1616413		yes	Extension of Underground Conduits at Plaza Substation on Elizabeth Street	06/27/16	220,000	220,000	14,901	205,099	08/11/16	7%	0%	Hironimus	Conduit installation complete, waiting on schedule for crews to pull cable.	

			1			Life to Date	1		dol.	Status	T	1
Project /	ork	×	Board	Board	Job	Total	Available	Last		on Board Est.)		
Subproject or WO	ide yn W	្នុក្ខ Job Title	Approval	Approved	Estimate	as of	Balance	Activity	·	%	Contact	COMMENTS
OI WO	Outsi Desiç	Jield	Date	Estimate	"Project/WO"	8/31/2016		Date	% Spent	Completed		
WO 1611216	yes	yes City wide streetlight -Light emitting diode conversion program	07/25/16	1,150,000	1,150,000	2,721	1,147,279	08/11/16	0%	0%	LaFond	Board approved 07/25/2016. Approved by the Land Use Committee of the City Council on August 18, 2016. Scheduled for Consideration by the City Council on September 6, 2016.
WO 1606533		yes Installation of Circuit Tie on Palm Avenue South of Tequesquite Avenue for Circuit 454	06/27/16	228,000	228,000	41,513	186,487	08/12/16	18%	0%	Villavicencio	Board Item # 5 approved on 06/27/2016. Substructure work awarded to HCI (NTP issued 07/20/2016, PW permit signed 07/22/2016). In Construction.
WO 1603079	yes	no Springs & Orangecrest Substations 69 kV Breaker and Relay Replacement Project	02/19/16	1,700,000	1,700,000	75,062	1,624,938	08/11/16	4%	0%	Wang	Board Item #6 approved on 02/19/2016.
WO 1601400	yes	yes Professional Service Agreement for the Substation Switchgear Upgrade Project	07/25/16	5,530,000	5,530,000	15,631	5,514,369	06/01/16	0%	0%	Oduca	Kick-off meeting held on 8/22/16.
WO 1601113	no	no Freeman Substation Expansion Project - Acquire 1.5 acres of Vacant Land in Connection	09/18/15	402,040	402,040	394,845	7,195	06/01/16	98%	100%	Alvarez	Closed 07/26/16.
WO 1525536	no	yes Electrical Feeder Extension on Diana Ave Between Adams St and Monroe St	01/22/16	850,000	850,000	786,871	63,129	08/23/16	93%	90%	Troncoso	In construction.
WO 1525067	no	no Cable Rejuvenation Pilot ProjectTest the treatment of underground electric cable to extend it's useful like.	07/25/16	449,000	449,000	33,246	415,754	06/30/16	7%	0%	Politte	Board approved item# 3 on 07/25/2016.
WO 1521822	yes	yes Plaza Substation 4 kV to 12kV conversion Circuit 456	09/18/15	933,000	933,000	84,870	848,130	08/20/16	9%	0%	Hironimus	Board Item # 6 approved on 09/18/2015. Released to UOC. Estimated CSD 2nd Qtr 2016.
WO 1521820	no	no Plaza Substation 4 kV to 12kV conversion Circu	i 09/18/15	1,446,000	1,446,000	111,215	1,334,785	06/01/16	8%	0%	Valdez	Board Item # 5 approved on 09/18/2015. Issued to field crew.
WO 1518525	no	yes Underground Electrical Installation at Jurupa Avenue Between Rutland and Crest Avenues for New Tract 28987	11/06/15	320,000	320,000	13,740	306,260	06/01/16	4%	0%	Nunez	Still active - issued to construction - 05/31/2016.
WO 1514752	yes	yes Mobile Substation #3 - RFP 1576	05/23/16	2,198,993	2,198,993	39,643	2,159,350	06/30/16	2%	0%	Megala	Kick-off meeting will be held in September 2016.
WO 1511213	no	yes Load Tap Changer (LTC) Replacement, Substation Transformer Testing, and Instrumentation Upgrade Project	11/06/15	3,200,000	3,200,000	3,055,414	144,586	08/10/16	95%	98%	Megala	As-built drawings are pending.
WO 1508419	no	yes Upgrade Fiber Optic Cable Network to City Hall	06/19/15	470,000	470,000	473,490	(3,490)	08/18/16	101%	70%	Gutierrez	Second phase to replace existing fiber in progress.
WO 1504019	yes	no Freeman Substation Breaker Replacement Project	10/03/14	641,121	641,121	686,124	(45,003)	08/02/16	107%	100%	Ramirez	Project completed. Work order will be closed out next month upon confirming that all outstanding invoices have been paid off.
WO 1503125	no	yes Magnolia Substation Circuit 46 4 KV to 12 KV Conversion, Overhead and Underground Project	04/17/15	1,833,000	1,833,000	885,582	947,418	08/22/16	48%	5%	Politte	Board approved 04/01/2015. Construction began in June 2015. In construction.
WO 1503115	no	yes Pole and Overhead Switch Replacement on the Freeman-Kaiser-Harvey Lynn 69kV Transmission Line	12/18/15	300,000	300,000	171,966	128,034	06/01/16	57%	50%	Hironimus	Pending coordination of installation.
WO 1502504	no	yes Riverside Substation Bay 4 Breaker Replacement Project	09/19/14	382,351	382,351	420,338	(37,987)	06/01/16	110%	95%	Fuentes	Starting process to close WO.
WO 1502322	no	yes Underground Switch Replacement	11/21/14	245,000	245,000	264,831	(19,831)	06/01/16	108%	70%	Politte	All tasks are completed with the exception of Task 4 Contract Admin., still waiting for a response in regards to final invoicing from Contract Admin.

	Т		I	ı		Life to Date	1		Job Status		1	
Project /	ork	¥	Board	Board	Job	Total	Available	Last		Board Est.)		
Subproject or WO	side gn W	Job Title	Approval	Approved	Estimate	as of	Balance	Activity	2.2	%	Contact	COMMENTS
33 27 3	Outs Desi Outs	Field	Date	Estimate	"Project/WO"	8/31/2016		Date	% Spent	Completed		
WO 1501824	yes n	Plaza Substation 4 kV to 12kV conversion Circuit 454	09/18/15	1,264,000	1,264,000	66,748	1,197,252	08/11/16	5%	0%	Ong	Board Item # 7 approved on 09/18/2015. Construction ongoing.
WO 1423746	no ye	es Fiber Use License Agreement With County of Riverside	01/22/16	325,000	325,000	42,429	282,571	08/11/16	13%	5%	Gutierrez	Detail design in progress.
WO 1411795	no ye	es Magnolia4 kV to 12 kV Underground Conversion	04/02/15	2,250,000	2,250,000	1,491,246	758,754	08/11/16	66%	90%	Villavicencio	Formal Bid #7300 - Contracted to H. Weissker Inc. Resumed construction 01/04/2016.Substructure work completed. Crew cabling /cutover ongoing.
WO 1411145	no ye	es La Colina Substation Switchgear 3 & 4 Relay Replacement Project	03/21/14	534,051	534,051	63,088	470,963	08/11/16	12%	15%	Megala	Consultant is preparing the 60% drawing design package for review
WO 1409723	no ye	es Conduit and Cable Replacement for Canyon Crest Area Circuit 1215	11/06/15	1,175,000	1,175,000	988,148	186,852	08/11/16	84%	50%	Villavicencio	Substructure work awarded to HLE, pre-con on 12/17/2015. Notice to proceed given on 02/10/2016, Construction on-going. (Punch list items pending)
WO 1326801	no ye	es Plaza Substation Expansion and Public Works Riverside Avenue Grade Separation Projects	03/21/14	1,446,454	1,446,454	1,227,981	218,473	07/22/16	85%	95%	Hironimus	Waiting for RPU crew to finish up a cable re-installation.
WO 1319390	no ye	es Magnolia 4 kV to 12 kV Conversion Overhead Project	09/19/14	1,577,100	1,577,100	1,609,650	(32,550)	08/26/16	102%	94%	Valdez	Underground structure work complete. Waiting for cable to be pulled.
WO 1311245	no ye	es Line Protection Relay Replacement and Substation Automation System Upgrade Project	03/21/14	1,925,805	1,925,805	1,325,639	600,166	08/25/16	69%	65%	Megala	Construction in progress.
WO 1309568	no ye	es Distribution Automation Program	01/18/13	960,000	960,000	546,270	413,730	08/11/16	57%	25%	Valdez	Grid Sensor updates are being conducted for new Ingenu
WO 1227700	no ye	es Magnolia - Plaza Reliability Project Phase I	11/07/14	6,700,000	6,700,000	6,567,783	132,217	08/24/16	98%	96%	Megala	Network. Construction in progress.
WO 1202319	no ye	es Riverside Ave RR Grade Separation Project	11/15/13	616,200	616,200	702,099	(85,899)	07/28/16	114%	95%	Hironimus	WO complete, waiting on as-builts
WO 1104202	no n	o CIS Replacement Project	06/01/12	8,859,000	8,859,000	8,167,223	691,777	08/18/16	92%	87%	Tavaglione	System is now live, working on post go-live fixes and enhancements.
WO 1024965	yes ye	es Electronic Security Monitoring and Access Control Project	09/16/11	5,000,000	5,000,000	4,988,288	11,712	08/25/16	100%	90%	Butala	As builts and close out in progress
WO 1024305	yes ye	es 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%	Nguyen	Work Completion Date was accepted on 11/16/2015. Board Item #6 was approved on 6/27/2016, added new scopes and extended terms to 11/30/2022. PO was executed 7/26/16. Project Kick-off
WO 1022593	yes ye	es UA 21975 - Caltrans 91 HOV - Relocate Existing Electric Facilities along SR 91 at Jefferson St, Brockton Ave, Boxwood Place and 10th Street	08/05/11	1,378,434	1,378,434	162,529	1,215,905	03/17/14	12%	25%	Ong	meeting to be scheduled . As-built and depreciation.
WO 1022591	yes y	es UA 21979 - Caltrans 91 HOV - Arlington Ave Relocation Project	01/21/11	1,061,490	1,061,490	242,578	818,912	06/01/16	23%	95%	Ong	As-built and depreciation.
WO 1022589	yes y	es UA 21205 - Relocation of Electric Facilities Along State Route 91	12/16/11	2,210,986	2,210,986	2,081,831	129,155	10/14/14	94%	95%	Ong	As-built and depreciation.
WO 1022588	yes y	es UA 21217 - Relocation of Electric Facilities Along State Route 91	06/18/10	2,393,030	2,393,030	2,167,963	225,067	06/30/15	91%	95%	Ong	As-built and depreciation.
WO 1020992	yes n	o Seismic Upgrades at La Colina & Hunter Substations	05/03/13	649,885	649,885	457,843	192,042	06/01/16	70%	98%	Wang	Project on hold. La Colina was completed. Minimum fix for Hunter. Hunter will be revisited later.
WO 1014286	no n	o Streeter Ave RR Grade Separation from Lantana St to Beatty Dr	10/19/12	1,338,673	1,338,673	1,547,669	(208,996)	03/01/16	116%	100%	Politte	Project completed; waiting on contractors as-builts and final contractor billing.

				Life to Date			Job	Status		
Project / 불	Board	Board	Job	Total	Available	Last	(Based o	(Based on Board Est.)		
Subproject ຈຸ ເຄື່ອ ຊີ Subproject Subpr	Approval	Approved	Estimate	as of	Balance	Activity	0/ Spont	%	Contact	COMMENTS
Out: Field	Date	Estimate	"Project/WO"	8/31/2016		Date	% Spent	Completed		
WO 0913192 yes yes Tyler Street Widening Project	08/07/15	816,000	816,000	769,771	46,229	08/23/16	94%	80%	Politte	PW Road Improvement Project: Contractor awarded with RPU

Board approval, under construction.

Total Electric Fund - Open Work Orders

144,501,659 94,404,888 50,096,771

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.

Work		Board	Board		Life to Date Total		Last		Status n Board Est.)		
Order Number	Job Title	Approval Date	Approved Estimate	Job Estimate	as of 08/31/2016	Available Balance	Activity Date	% Spent	% Completed	Contact	Comments
Recap of op	en 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	1,320,535	279,465	08/29/16	83%	100%	LF	Project complete. Pending final project close-out.
1112062	UA 21699 - Miscellaneous Utility Relocations - Caltrans SR-91 HOV Project	11/18/11	1,555,000	1,555,000	437,301	1,117,699	08/11/16	28%	90%	LF	Project is in construction, ongoing until end of SR91 HOV project completion in 2016.
1202806	The Riverside North Aquifer Storage & Recovery Project	10/07/11	1,800,000	1,800,000	706,425	1,093,575	07/01/16	39%	10%	MP	Partners Consultants reviewing validation report.
1415931	Construction of the California and Monroe Water Main Replacement Project	12/12/14	973,500	973,500	802,334	171,166	08/11/16	82%	95%	TS	Project is delayed over 350+ days. It is in LDs; now in the last Phase III. Punch list items yet to be completed as of 06/02/2016.
1424014	Construction of the Gratton Booster Station Replacement Project	01/23/15	1,311,100	1,311,100	1,033,064	278,036	07/28/16	79%	99%	LF	Substantially completed on 6/27/16. Pending final completion by August 2016.
1424073	Water Asset Management (Software Procurement from OSI Soft and Consulting Services from Westin Engineering Inc for Implementation of Operations Data Management System).	06/20/14	2,530,400	2,530,400	1,978,367	552,033	08/11/16	78%	60%	CJ	Contract executed. This is a 3 year project. CJ in ODMS is heading up this project.
1501422	Construction of the Brunton 1-R Well Project (Phase I & II)	01/23/15	2,549,900	2,549,900	2,310,491	239,409	08/18/16	91%	99%	LF	Under construction. Estimated completion by August 2016.
1503563	Valverda Water Main Replacement Project	08/07/15	1,727,000	1,727,000	1,090,056	636,944	08/11/16	63%	100%	AL	Work is complete. Pending final payment and closure of work order.
1504840	Santa Ana River Habitat Conservation Plan	09/05/14	325,000	325,000	77,128	247,872	06/01/16	24%	0%	MP	Under review.
1507007	Jasmine and Columbus 12-Inch Water Distribution Main Replacement Project	10/03/14	679,000	679,000	-	679,000	No Activity	0%	0%	MB	Under review. Per Matt Bates keep open.
1511174	Construction of the Dwight Avenue Water Main Replacement Project	08/07/15	1,930,000	1,930,000	1,153,222	776,778	08/22/16	60%	65%	AL	Field forces planned completion mid August 2016. Paving underway.
1515505	Construction of the Ambs Drive Water Main Replacement Project	06/06/16	1,523,000	1,523,000	124,693	1,398,307	08/16/16	8%	0%	SL	Field Forces to begin construction in summer 2016.
1515609	Construction of the Arlington Avenue & Western Avenue Water Main Replacement Project	06/06/16	1,241,000	1,241,000	115,219	1,125,781	06/06/16	9%	0%	SL	Field Forces to begin construction in summer 2016.
1518913	Construction of the Borckton Avenue & Palm Avenue Railroad Crossings Water Pipeline Replacement Project	08/22/16	688,000	688,000	44,300	643,700	08/22/16	6%	0%	EE	Approved by Board on 08/22/16.
1521905	Jackson Street Recycled Water Pipeline Phase 1	01/22/16	500,000	500,000	462,993	37,007	08/11/16	93%	99%	JF	Phase 1 almost completed. Seeking additional funds.
1602896	Construction of the Central Avenue Water Main Replacement Project (Palm to Belinda)	10/16/15	790,000	790,000	708,333	81,667	08/11/16	90%	100%	TS	Pending project close out.
1602941	Construction of the Larchwood Place Water Main Replacement Project	10/16/15	865,000	865,000	273,390	591,610	08/19/16	32%	0%	AL	Field Forces to begin end of July 2016.
1610216	Construction of the Tree Irrigation System Project	02/19/16	240,000	240,000	85,957	154,043	08/17/16	36%	35%	AL	Contruction starts 07/05/2016. Estimated completion in December 2016.
1619634	Water ODMS Portion of Enterprise Agreement with OSIsoft	05/09/16	345,000	345,000	-	345,000	05/09/16	0%	0%	CJ	Item approved by Board on 05/09/2016.
1619730	Construction of the Tenth and Elevent Street Water Main Replacement Project	08/22/16	1,745,000	1,745,000	23,416	1,721,584	08/22/16	1%	0%	AL	Approved by Board on 08/22/16.

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

Total Water Fund - Open Work Orders

1 of 1

24,917,900

12,747,224 12,170,676



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: SEPTEMBER 26, 2016

GENERAL MANAGER'S REPORT

ITEM NO: 19

Riverside Public Utilities

Closed Work Order Reports

As of August 31, 2016

Public Utilities Riverside Closed Capital Work Order Summary Report - Electric Fund August 2016

Work Order Number	Description	Start Date	End Date	Estimated Cost	Work Order Actual	Variance	% Variance					
CLOSED Ca	pital Work Orders with Budget or Actual Expenditures >	\$200,000										
WO 1523107	Installation of Pad-Mounted Switch on Tyler Street Near Diana Avenue	09/18/2015	07/21/2016	\$ 332,000	\$ 202,158	\$ 129,842	39.11%					
·	1) Note on Final Project Cost:											
	Project came in under budget. Work was originally estimate minimize night work.	d to be night wor	k. RPU contra	ector and field cr	ews were able to	coordinate with o	developer to					
	2) Impact to Customer Service:											
	Customer now has redundancy by providing a backup feed time for repair will be minimized by the above ground switch			•		se of an outage,	RPU's response					
	3) Impact to System Reliability:	-										
	The switch is a backup to the Galleria load which is currently making contact with the wires.	y served by an ov	erhead circui	t that experienc	es outages regula	arly due to tree lir	nbs and critters					
WO 1325480	Relocation of Electric Facilities Along Cole Ave	06/06/2014	07/25/2016	\$ 239,735	\$ 218,452	\$ 21,283	8.88%					
	1) Note on Final Project Cost:											
	Project cost was approximately 9% under budget.											
	2) Impact to Customer Service:											
	· ·	This was a Public Works driven project to install a new storm drain. RPU had to relocate electric facilities that were in conflict. While doing this, RPU was able to create a back feed in the area to improve reliability for approximately 25 customers.										
	3) Impact to System Reliability:											
	The project improved reliability for approximately 25 custom	ers.										
Total Electric	c Fund - Closed Work Orders		=	\$ 571,735	\$ 420,610	\$ 151,125						

Public Utilities Riverside Closed Capital Work Order Summary Report - Water Fund August 2016

Work Order Number	Description	Start Date	End Date	Estimated Cost	Work Order Actual	Variance	% Variance
CLOSED Capital Wo	rk Orders with Budget or Actual expend	itures > \$200,000					
	ote: No Closed Water Work Orders over \$ for the month of August 2016.	200,000					
Total Water Fund - C	losed Work Orders		-	\$ -	<u> </u>	-\$ -	