



# RIVERSIDE PUBLIC UTILITIES

## Board Memorandum

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**BOARD OF PUBLIC UTILITIES**

**DATE:** NOVEMBER 26, 2018

**GENERAL MANAGER'S REPORT**

**ITEM NO:**

# **Riverside Public Utilities**

## **Open Work Orders Greater than \$200,000**

**As of October 31, 2018**

**Riverside Public Utilities**  
**Open Capital Work Order Summary Report - Electric Fund**  
**October-18**

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate <sup>(1)</sup>	Project Estimate <sup>(2)</sup>	Year to Date Total as of 10/31/2018	Life to Date Total as of 10/31/2018	Available Balance	Last Activity Date	Job Status		Project Status
									(Based on Proj. Est.)		
									% Spent	% Completed	

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

**Advanced Technology**

1619634	Operational Data Management System - Electric	05/09/16	4,907,000	2,474,500	53,095	2,252,659	221,841	09/26/18	91%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,000,000	790,000	-	-	790,000	09/11/18	0%	2%	Developing business case.
<b>Subtotal</b>				<b>3,264,500</b>	<b>53,095</b>	<b>2,252,659</b>	<b>1,011,841</b>				

**RTRP and STP Project**

642975	Riverside Transmission Reliability Project (RTRP)	10/17/14	42,605,521	42,605,521	146,901	28,509,511	14,096,010	10/04/18	67%	15%	In design.
<b>0812940</b>	<b>Sub-Transmission Project (STP)<sup>(3)</sup></b>	<b>11/06/09</b>	<b>24,000,000</b>	<b>24,000,000</b>	<b>-</b>	<b>18,312,636</b>	<b>5,687,364</b>	<b>05/31/18</b>	<b>76%</b>	<b>99%</b>	<b>Completed, pending as-builts.</b>
<b>Subtotal</b>				<b>66,605,521</b>	<b>146,901</b>	<b>46,822,147</b>	<b>19,783,374</b>				

**Major Tract Distribution**

<b>1518525</b>	<b>Jurupa Avenue - New Tract 28987</b>	<b>11/06/15</b>	<b>320,000</b>	<b>320,000</b>	<b>-</b>	<b>13,740</b>	<b>306,260</b>	<b>06/01/16</b>	<b>4%</b>	<b>0%</b>	<b>On-hold.</b>
<b>070016 / 07</b>	<b>Tract 29596 Krameria Ave<sup>(4)</sup></b>	<b>07/20/07</b>	<b>500,000</b>	<b>500,000</b>	<b>-</b>	<b>468,292</b>	<b>31,708</b>	<b>03/13/14</b>	<b>94%</b>	<b>95%</b>	<b>In construction.</b>
<b>Subtotal</b>				<b>820,000</b>	<b>-</b>	<b>482,032</b>	<b>337,968</b>				

**Neighborhood Streetlight Retrofit**

1523553	Wood Streets Streetlights Phase 2	02/13/17	2,300,000	2,300,000	365	2,114,642	185,358	10/04/18	92%	95%	Completed, pending as-builts.
<b>080022 / 01</b>	<b>Wood Streets Streetlights Phase I<sup>(5)</sup></b>	<b>10/18/13</b>	<b>1,909,600</b>	<b>1,909,600</b>	<b>-</b>	<b>1,792,642</b>	<b>116,958</b>	<b>06/14/18</b>	<b>94%</b>	<b>95%</b>	<b>Completed, pending as-builts.</b>
<b>Subtotal</b>				<b>4,209,600</b>	<b>365</b>	<b>3,907,284</b>	<b>302,316</b>				

**Major Transmission Line Projects**

1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	12,050	192,051	107,949	10/10/18	64%	50%	Equipment purchased, pending start date
<b>Subtotal</b>				<b>300,000</b>	<b>12,050</b>	<b>192,051</b>	<b>107,949</b>				

**Cable Replacement**

<b>1409723</b>	<b>Canyon Crest Area Circuit 1215</b>	<b>11/06/15</b>	<b>1,175,000</b>	<b>1,175,000</b>	<b>-</b>	<b>1,032,476</b>	<b>142,524</b>	<b>02/08/18</b>	<b>88%</b>	<b>95%</b>	<b>In Litigation</b>
1319813	Conduit and Cable Replacement for Canyon Crest Area Circuit 1218	04/10/17	967,000	967,000	305	735,538	231,462	10/04/18	76%	100%	Completed, pending closure.
1713398	Canyon Crest Area 1F	01/08/18	739,000	739,000	30,307	649,772	89,228	10/04/18	88%	50%	In construction.
<b>Subtotal</b>				<b>2,881,000</b>	<b>30,612</b>	<b>2,417,786</b>	<b>463,214</b>				

**CIS Banner Upgrade**

1104202	CIS Replacement	06/01/12	9,200,000	8,859,000	126,804	8,546,301	312,699	10/11/18	96%	95%	Completed, pending closure.
<b>Subtotal</b>				<b>8,859,000</b>	<b>126,804</b>	<b>8,546,301</b>	<b>312,699</b>				

**City-Wide Communciations Network**

1423750	Riverside Substation to Hunter Substation	04/24/17	465,000	465,000	71,750	336,906	128,094	10/04/18	72%	90%	Completed, pending closure.
1423748	Freeman Substation to Orangecrest Substation	10/22/18	1,265,000	1,265,000	-	22,064	1,242,936	10/04/18	2%	1%	In design phase
<b>1524282</b>	<b>Land Mobile Radio (LMR) system (Electric Portion)</b>	<b>09/26/16</b>	<b>3,000,000</b>	<b>1,650,000</b>	<b>-</b>	<b>1,687,154</b>	<b>(37,154)</b>	<b>07/01/18</b>	<b>102%</b>	<b>95%</b>	<b>Completed, pending closure.</b>
1719921	Magnolia Avenue	04/24/17	2,189,489	2,189,489	216,095	1,650,518	538,971	10/04/18	75%	75%	In construction.
<b>Subtotal</b>				<b>5,569,489</b>	<b>287,845</b>	<b>3,696,642</b>	<b>1,872,847</b>				

**Distribution Automation Reliability**

<b>1309568</b>	<b>Distribution Automation Program</b>	<b>01/18/13</b>	<b>960,000</b>	<b>960,000</b>	<b>-</b>	<b>682,841</b>	<b>277,159</b>	<b>06/30/18</b>	<b>71%</b>	<b>65%</b>	<b>In construction.</b>
<b>Subtotal</b>				<b>960,000</b>	<b>-</b>	<b>682,841</b>	<b>277,159</b>				

**Riverside Public Utilities**  
**Open Capital Work Order Summary Report - Electric Fund**  
**October-18**

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate <sup>(1)</sup>	Project Estimate <sup>(2)</sup>	Year to Date Total as of 10/31/2018	Life to Date Total as of 10/31/2018	Available Balance	Last Activity Date	Job Status		Project Status
									(Based on Proj. Est.)		
									% Spent	% Completed	
GO 165 Upgrades/Relocations											
Various	GO-165 Pole Replacements - Citywide	09/25/17	1,125,000	1,125,000	-	827,556	297,444	Various	74%	100%	Project completed, pending final billing
Various	GO-165 Pole Replacements - Citywide	08/27/18	2,227,000	2,227,000	-	-	2,227,000	Various	0%	0%	Pending start date/notice to proceed
	Subtotal			3,352,000	-	827,556	2,524,444				
Major 4/12Kv Conversions											
1319390	Magnolia - Overhead Conversion	09/19/14	1,577,100	1,577,100	-	2,018,710	(441,610)	09/20/18	128%	95%	In construction.
1411795	Magnolia - Underground Conversion	04/02/15	2,250,000	2,250,000	5,493	1,684,692	565,308	09/20/18	75%	95%	In construction.
1521820	Plaza Substation - Circuit 452	09/18/15	1,446,000	1,446,000	-	1,267,741	178,259	04/05/18	88%	90%	In construction.
1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	166,636	414,891	518,109	10/12/18	44%	28%	In construction.
1708710	Plaza Substation - Circuit 458	04/09/18	1,170,000	1,170,000	205,482	415,928	754,072	09/07/18	36%	5%	In construction.
1808449	Plaza Substation - Circuit 448	07/09/18	973,000	973,000	33,566	63,967	909,033	10/12/18	7%	3%	Pending start date
1808451	Plaza Substation - Circuit 443	03/29/18	415,000	415,000	69,554	142,465	272,535	10/10/18	34%	20%	In construction.
	Subtotal			8,764,100	480,731	6,008,394	2,755,706				
Major Overhead/Underground Conversions											
0913192	Tyler Street Widening	08/07/15	816,000	816,000	-	973,503	(157,503)	12/01/17	119%	95%	Completed, pending as-builts.
	Subtotal			816,000	-	973,503	(157,503)				
Major Street Light Projects											
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	-	492,483	657,517	08/29/18	43%	53%	In design.
1722321	Norte Vista Sidwalk Improvements Project	02/12/18	888,000	888,000	188,854	223,761	664,239	10/04/18	25%	15%	In construction.
1725687	Wells-Arlanza Sidewalk Improvements Project	01/08/18	460,000	460,000	275,491	352,736	107,264	10/04/18	77%	65%	In construction.
	Subtotal			2,498,000	464,345	1,068,980	1,429,020				
SCADA											
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.
	Subtotal			2,938,307	-	2,737,329	200,978				
Substation Bus and Upgrades											
1311245	Orangecrest, Riverside,Springs & La Colina	03/21/14	1,925,805	1,925,805	-	1,919,696	6,109	05/31/18	100%	99%	Completed, pending as-builts.
1407577	Metal Gate Replacement	04/09/18	337,699	337,699	175	17,552	320,147	08/23/18	5%	5%	Pending construction
1411145	La Colina Switchgear 3 & 4	03/21/14	534,051	534,051	-	345,983	188,068	06/13/18	65%	90%	On-hold.
1507210	RERC Control Power Improvement	10/23/17	272,000	272,000	385	220,719	51,281	10/04/18	77%	88%	Pending procuring add'l equipment
1601400	Springs, Freeman and Mt. View	07/25/16	5,530,000	5,530,000	72,023	4,522,601	1,007,399	10/04/18	82%	85%	In construction
1603079	Springs & Orangecrest	02/19/16	1,700,000	1,700,000	886	1,275,774	424,226	10/04/18	75%	60%	Pending construction.
1808341	Substation Utility Storage Facility	06/11/18	407,385	407,385	36,471	48,697	358,688	10/04/18	12%	5%	In design
1812830	Nine (9) Substation Battery Chargers Upgrade Proj.	02/12/18	384,000	384,000	59,818	226,039	157,961	10/04/18	59%	55%	In construction.
1814007	Substation Capacitor Upgrade Project	01/22/18	5,306,000	5,306,000	354,935	1,004,691	4,301,309	10/04/18	19%	15%	In procurement phase

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					Total as of 10/31/2018	Total as of 10/31/2018			(Based on Proj. Est.)		
									% Spent	% Completed	
1816163	Substation Automation Upgrade Project	02/26/18	2,027,679	2,027,679	45,997	720,897	1,306,782	10/04/18	36%	30%	In design
1817274	Vista Substation	02/26/18	836,175	836,175	-	782,757	53,418	04/13/18	94%	15%	In engineering and design phase Design completed, pending Board approval
1822052	Harvey Lynn Substation Site Expansion	10/22/18	2,100,000	2,100,000	-	45,385	2,054,615	06/30/18	2%	10%	
1826061	Riverside power plants Arc Flash Mitigatino	06/11/18	497,000	497,000	32	179	496,821	07/12/18	0%	3%	
Subtotal				21,857,794	570,721	11,130,970	10,726,824				
Substation Transformer Addition											
1816638	Freeman Substation & Mt. View Substation	05/14/18	4,202,827	4,202,827	17,511	49,016	4,153,811	10/04/18	1%	1%	In procurement phase. Pending signing agreement with contractor
1822318	Multi Substation Transformer Upgrade/ Recondition	06/25/18	3,082,617	3,082,617	7,100	9,091	3,073,526	10/04/18	0%	1%	
Subtotal				7,285,444	24,611	58,107	7,227,337				
Total Electric Fund - Open Work Orders				140,980,755	2,198,078	91,804,582	49,176,173				

**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**  
**October-18**

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate <sup>(1)</sup>	Project Estimate <sup>(2)</sup>	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 10/31/2018	Total as of 10/31/2018			% Spent	% Completed	
Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000											
Advanced Technology											
1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,332,500	28,589	1,230,493	102,007	09/26/18	92%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Water	06/12/17	3,000,000	460,000	-	-	460,000	09/11/18	0%	2%	Developing business case.
Subtotal				1,792,500	28,589	1,230,493	562,007				
System Expansion											
1615173	Water Cust. Development - 58 Magnolia Ctr.	(3)	(3)	237,767	-	262,912	(25,145)	03/31/18	111%	90%	Pending pavement completion.
1726679	Iowa Ave 12-inch Water Main Extension	09/24/18	353,000	353,000	9,457	53,703	299,297	10/10/18	15%	0%	Pending start date
1905091	Iowa Ave 12-inch Water Main Extension	09/24/18	269,000	269,000	16,552	16,552	252,448	08/23/18	6%	0%	Pending start date
Subtotal				859,767	26,008	333,167	526,600				
Transmission Mains											
1612632	Magnolia Ave Techite Pipe Replacement Project	07/09/18	7,335,000	7,335,000	625,189	673,286	6,661,714	10/10/18	9%	10%	In construction.
1903811	Iowa Avenue Transmission Main Replacement	10/22/18	2,140,000	2,140,000	16,082	16,082	2,123,918	08/16/18	1%	0%	Pending start date
Subtotal				9,475,000	641,271	689,368	8,785,632				
Aquifer Storage & Recovery System											
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%	In environmental evaluation phase.
Subtotal				1,800,000	-	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											
1508449	Palmyrita Well	11/07/14	215,000	215,000	-	8,932	206,068	11/16/17	4%	5%	On-hold.
1524282	Land Mobile Radio (LMR) system (Wtr Portion)	09/26/16	3,000,000	1,350,000	-	1,283,051	66,949	07/01/18	95%	95%	Completed,pending commisioning.
1727999	Pressure Reducing Station Replacement	07/09/18	599,000	599,000	969	18,930	580,070	09/20/18	3%	0%	Pending start date.
1827140	Cooley J Groundwater Well	09/24/18	811,000	811,000	3,267	10,031	800,969	10/04/18	1%	0%	Construction starts 11/15/18

**Riverside Public Utilities**  
**Open Capital Work Order Summary Report - Water Fund**  
**October-18**

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate <sup>(1)</sup>	Project Estimate <sup>(2)</sup>	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status		Project Status
					Total as of 10/31/2018	Total as of 10/31/2018			(Based on Proj. Est.)		
									% Spent	% Completed	
1902331	Stiles Groundwater Well	09/24/18	327,000	327,000	3,270	3,270	323,730	07/18/18	1%	0%	Construction starts 11/15/18
1902332	Garner 5 Groundwater Well	09/24/18	355,000	355,000	3,319	3,319	351,681	07/18/18	1%	0%	Construction starts 11/15/18
Subtotal				3,657,000	10,825	1,327,533	2,329,467				
Main Replacements											
1415931	California and Monroe	12/12/14	973,500	973,500	108,240	928,545	44,955	09/19/18	95%	95%	Completed, pending closure.
1507007	Jasmine and Columbus	10/03/14	679,000	679,000	-	47,267	631,733	05/31/18	7%	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.
Subtotal				2,547,500	108,240	1,453,414	1,094,086				
Recycled Water Facilities											
1521905	Jackson Street - Phase 1	11/27/17	9,039,000	8,839,000	672,071	8,069,271	769,729	10/04/18	91%	55%	In construction.
1722078	Jackson St - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,370	434,370	22,301	120,653	313,717	10/11/18	28%	18%	In construction.
Subtotal				9,273,370	694,371	8,189,924	1,083,446				
Utility Agreement Projects - Caltrans SR-91 HOV											
1112062	UA 21699 - Misc. Utility Relocations	11/19/10	1,555,000	1,555,000	-	486,936	1,068,064	06/07/18	31%	99%	Completed, pending closure.
1112059	UA 21702 - Ivy St Bridge	08/19/11	1,600,000	1,600,000	100	1,369,022	230,978	10/04/18	86%	99%	Completed, pending closure.
Subtotal				3,155,000	100	1,855,958	1,299,042				
Total Water Fund - Open Work Orders				32,885,137	1,509,404	15,661,827	17,223,310				

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**

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**BOARD OF PUBLIC UTILITIES**

**DATE:** NOVEMBER 26, 2018

**GENERAL MANAGER'S REPORT**

**ITEM NO:**

# **Riverside Public Utilities**

## **Closed Work Order Reports**

**As of October 31, 2018**



Riverside Public Utilities  
Closed Capital Work Order Summary Report - Electric Fund  
October-18

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**

**Major 4/12k Conversion**

1503125	Magnolia Substation - Circuit 46	4/17/2015	9/11/2018	\$ 1,833,000	\$ 2,210,424	\$ (377,424)	-20.59%
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*1) Note on Final Project Cost:*

The Project was over budget due to field additions where potential system improvements were identified as well as work that had to be completed at night or during the weekend in order to lessen the impact to the customers on the circuit.

*2) Impact to Customer Service:*

By converting circuit 46 from 4kV to 12kV RPU improved electric services, power quality, and system operation (faster outage restoration)

*3) Impact to System Reliability:*

This work is identified as part of the Electric System Master plan and Utility 2.0 and improves system capacity, safety and reliability.

**Total Electric Fund - Closed Work Orders**

<u>\$ 1,833,000</u>	<u>\$ 2,210,424</u>	<u>\$ (377,424)</u>
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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**

**Facility Rehabilitation**

1727342	Gage 51-1 Groundwater Well	11/27/2017	9/13/2018	\$ 337,000	\$ 246,170	\$ 90,830	26.95%
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<p><i>1) Note on Final Project Cost:</i></p> <p>The project was completed within the estimated cost.</p>
<p><i>2) Impact to Customer Service:</i></p> <p>The project provides steady production of groundwater at the lowest possible cost, and therefore, enhances reliability of water supply to the customers</p>
<p><i>3) Impact to System Reliability:</i></p> <p>The project improved reliability of water supply.</p>

1806139	Gage 92-1 Groundwater Well	11/27/2017	9/19/2018	\$ 413,000	\$ 350,318	\$ 62,682	15.18%
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<p><i>1) Note on Final Project Cost:</i></p> <p>The project was completed within the estimated cost.</p>
<p><i>2) Impact to Customer Service:</i></p> <p>The project provides steady production of groundwater at the lowest possible cost, and therefore, enhances reliability of water supply to the customers</p>
<p><i>3) Impact to System Reliability:</i></p> <p>The project improved reliability of water supply.</p>

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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**

1806140	Gage 66-1 Groundwater Well	11/27/2017	9/13/2018	\$ 381,000	\$ 297,982	\$ 83,018	21.79%
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*1) Note on Final Project Cost:*

The project was completed within the estimated cost.

*2) Impact to Customer Service:*

The project provides steady production of groundwater at the lowest possible cost, and therefore, enhances reliability of water supply to the customers

*3) Impact to System Reliability:*

The project improved reliability of water supply.

1806141	Warren 1 Groundwater Well	11/27/2017	9/13/2018	\$ 346,000	\$ 263,755	\$ 82,245	23.77%
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*1) Note on Final Project Cost:*

The project was completed within the estimated cost.

*2) Impact to Customer Service:*

The project provides steady production of groundwater at the lowest possible cost, and therefore, enhances reliability of water supply to the customers

*3) Impact to System Reliability:*

The project improved reliability of water supply.

Riverside Public Utilities  
Closed Capital Work Order Summary Report - Water Fund  
October-18

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**

1806142	Garner C Groundwater Well	11/27/2017	9/13/2018	\$ 361,000	\$ 294,558	\$ 66,442	18.40%
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*1) Note on Final Project Cost:*

The project was completed within the estimated cost.

*2) Impact to Customer Service:*

The project provides steady production of groundwater at the lowest possible cost, and therefore, enhances reliability of water supply to the customers

*3) Impact to System Reliability:*

The project improved reliability of water supply.

**Total Water Fund - Closed Work Orders**

<u>\$ 1,838,000</u>	<u>\$ 1,452,783</u>	<u>\$ 385,217</u>
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