



AGENDA

**REGULAR MEETING OF THE BOARD OF DIRECTORS
LA PUENTE VALLEY COUNTY WATER DISTRICT
112 N. FIRST STREET, LA PUENTE, CALIFORNIA
MONDAY, JULY 25, 2022 AT 5:30 PM**

TELECONFERENCE ACCESS: Pursuant to Government Code Section 54953, as amended by AB 361, as a precaution to protect staff, our constituents, and elected officials, the La Puente Valley County Water District will hold its Board meeting via teleconference or the most rapid means of communication available at the time.

WEBSITE: WWW.ZOOM.COM

MEETING ID: 885 4681 0230

DIRECT MEETING LINK:

[HTTPS://US02WEB.ZOOM.US/J/88546810230](https://us02web.zoom.us/j/88546810230)

JOIN BY PHONE

PHONE NUMBER: (669) 900-9128

ACCESS CODE: 885 4681 0230#

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL OF BOARD OF DIRECTORS

President Rojas____ Vice President Hernandez____ Director Argudo____

Director Barajas____ Director Escalera____

4. PUBLIC COMMENT

Anyone wishing to discuss items on the agenda or pertaining to the District may do so now. The Board may allow additional input during the meeting. A five-minute limit on remarks is requested.

5. ADOPTION OF AGENDA

Each item on the Agenda shall be deemed to include an appropriate motion, resolution or ordinance to take action on any item. Materials related to an item on this agenda submitted after distribution of the agenda packet are available for public review at the District office, located at the address listed above.

6. APPROVAL OF CONSENT CALENDAR

There will be no separate discussion of Consent Calendar items as they are considered to be routine by the Board of Directors and will be adopted by one motion. If a member of the Board, staff, or public requests discussion on a particular item, that item will be removed from the Consent Calendar and considered separately.

- A. Approval of Minutes of the Regular Meeting of the Board of Directors held on July 11, 2022.

7. FINANCIAL REPORTS

- A. Summary of the District's Cash and Investments as of June 30, 2022.
Recommendation: Receive and File.
- B. Statement of District's Revenue and Expenses as of June 30, 2022.
Recommendation: Receive and File.
- C. Statement of the Industry Public Utilities Water Operations Revenue and Expenses as of June 30, 2022.
Recommendation: Receive and File.

8. ACTION / DISCUSSION ITEMS

- A. Consideration of Resolution 283 Proclaiming a State of Emergency Persist, Re-Ratifying the Proclamation of a State of Emergency by Governor Gavin Newsom, and Re-Authorizing Remote Teleconference Meetings of the Board of Directors.
Recommendation: Approve Resolution 283
- B. Consideration of Resolution 284 Adopting Rules and Regulations Governing Recycled Water Service.
Recommendation: Approve Resolution 284
- C. Discussion on the District's Logo.
Recommendation: Board Discretion

9. GENERAL MANAGER'S REPORT

10. OTHER ITEMS

- A. Upcoming Events.
- B. Information Items.

11. ATTORNEY'S COMMENTS

12. BOARD MEMBER COMMENTS

- A. Report on Events Attended.
- B. Other Comments.

13. FUTURE AGENDA ITEMS

14. ADJOURNMENT

POSTED: Friday, July 22, 2022

President William R. Rojas, Presiding.

Any qualified person with a disability may request a disability-related accommodation as needed to participate fully in this public meeting. In order to make such a request, please contact Mr. Roy Frausto, Board Secretary, at (626) 330-2126 in sufficient time prior to the meeting to make the necessary arrangements.

Note: Agenda materials are available for public inspection at the District office or visit the District's website at www.lapuentewater.com.



**MINUTES OF THE REGULAR MEETING OF
THE BOARD OF DIRECTORS OF THE
LA PUENTE VALLEY COUNTY WATER DISTRICT
FOR MONDAY, JULY 11, 2022, AT 5:30 PM**

1. CALL TO ORDER

President Rojas called the meeting to order at 5:30 p.m.

2. PLEDGE OF ALLEGIANCE

President Rojas led the meeting in the Pledge of Allegiance.

3. ROLL CALL OF THE BOARD OF DIRECTORS

President Rojas	Vice President Hernandez	Director Argudo	Director Barajas	Director Escalera
Present Via Teleconference	Present Via Teleconference	Absent	Present Via Teleconference	Present Via Teleconference

OTHERS PRESENT

Staff and Counsel: General Manager & Board Secretary, Roy Frausto; Office Manager, Gina Herrera; Customer Service and Accounting Clerk, Vanessa Koyama; Operations & Maintenance Superintendent, Paul Zampiello; Water Treatment & Supply Superintendent, Cesar Ortiz and District Counsel, Jim Ciampa all present via teleconference.

Public: No members of the public were present.

4. PUBLIC COMMENTS

No comments from the Public.

5. ADOPTION OF AGENDA

Motion: Adopt Agenda as Presented.

1st: President Rojas

2nd: Vice President Hernandez

	Rojas	Hernandez	Argudo	Barajas	Escalera
Vote	Yes	Yes	Absent	Yes	Yes

Motion carried by a vote of: 4 Yes, 0 No, 0 Abstain, 1 Absent.

6. APPROVAL OF CONSENT CALENDAR

Motion: Approval of Consent Calendar as presented.

1st: President Rojas

2nd: Vice President Hernandez

	Rojas	Hernandez	Argudo	Barajas	Escalera
Vote	Yes	Yes	Absent	Yes	Yes

Motion carried by a vote of: 4 Yes, 0 No, 0 Abstain, 1 Absent.

7. ACTION / DISCUSSION ITEMS

A. Consideration of Change Order No. 2 From Geosyntec Consultants for the Engineering Permitting Support Services for the Nitrate Treatment System Project.

Mr. Frausto and Mr. Zampiello gave the Board a brief history on the Geosyntec Agreement and details of the Change Order.

Motion: Authorize the General Manager to Approve Change Order No. 2 from Geosyntec Consultants.

1st: Director Barajas

2nd: President Rojas

	Rojas	Hernandez	Argudo	Barajas	Escalera
Vote	Yes	Yes	Absent	Yes	Yes

Motion carried by a vote of: 4 Yes, 0 No, 0 Abstain, 1 Absent.

B. Discussion Regarding the Subject Matter of the District's Summer Newsletter.

Mr. Frausto asked the Board for any ideas or suggestions on what to include in the upcoming newsletter.

No formal action was taken.

8. GENERAL MANAGER'S REPORT

Mr. Frausto had nothing new to report.

9. OTHER ITEMS

A. Upcoming Events

Mrs. Herrera announced an upcoming SCWUA event and if anyone would be interested in attending.

B. Information Items

In Board Packet.

10. ATTORNEY'S COMMENTS

Mr. Ciampa discussed Senate Bill 222. He also addressed the Hwang Family Limited Partnership case and stated that there would be no need to have a closed session.

11. CLOSED SESSION

A. Conference with legal counsel – Existing Litigation

Subdivision (a) of Government Code Section 54956.9.

12. CLOSED SESSION REPORT

None to report.

13. BOARD MEMBER COMMENTS

A. Report on Events Attended.

Director Rojas reported that he attended one event: L.A. County 1st District Oversight Board Meeting.

Director Escalera reported that he attended one event: 2022 ACWA Spring Conference in Sacramento, CA.

B. Other Comments

President Rojas stated that the Ad hoc Committee for the new office building will reconvene and that he will be replacing Vice President Hernandez on the committee.

14. FUTURE AGENDA ITEMS

15. ADJOURNMENT

President Rojas adjourned the meeting at 5:47 p.m.

Attest:

William R. Rojas, President

Roy Frausto, Secretary



Summary of Cash and Investments

June 2022

La Puente Valley County Water District

Investments	(Apportionment Rate)	Beginning Balance	Receipts/ Change in Value	Disbursements/ Change in Value	Ending Balance
Local Agency Investment Fund	0..75%	\$ 2,983,851.90	\$ -	\$ -	\$ 2,983,851.90
Checking Account					
Well Fargo Checking Account (per General Ledger)		\$ 2,029,934.38	\$ 549,019.60	\$ 468,918.70	\$ 2,110,035.28
District's Total Cash and Investments:					<u>\$ 5,093,887.18</u>

Industry Public Utilities

Checking Account	Beginning Balance	Receipts	Disbursements	Ending Balance
Well Fargo Checking Account (per General Ledger)	\$ 1,250,513.41	\$ 183,090.91	\$ 182,078.36	\$ 1,251,525.96
IPU's Total Cash and Investments:				<u>\$ 1,251,525.96</u>

I certify that; (1) all investment actions executed since the last report have been made in full compliance with the Investment Policy as set forth in Resolution No. 237 and, (2) the District will meet its expenditure obligations for the next six (6) months.

Roy Frausto

, General Manager

Date: July 20, 2022

Roy Frausto



La Puente Valley County Water District

Statement of Revenues & Expenses Summary

For the Period Ending June 30, 2022

(Unaudited)

	LPVCWD		TP		50% OF BUDGET	YEAR-END 2021
	YTD 2022	YTD 2022	YTD 2022	BUDGET 2022		
Revenues						
Operational Rate Revenues	\$ 1,226,723	\$ -	\$ 1,226,723	\$ 2,681,100	46%	\$ 2,528,399
Operational Non-Rate Revenues	569,525	873,627	1,443,153	2,701,100	53%	2,631,760
Non-Operational Revenues	184,277	-	184,277	376,000	49%	554,923
Total Revenues	1,980,526	873,627	2,854,153	5,758,200	50%	5,715,082
Expense						
Salaries & Benefits	942,752	173,823	1,116,575	2,283,200	49%	2,065,908
Supply & Treatment	171,673	612,394	784,066	2,078,400	38%	2,031,310
Other Operating Expenses	84,791	79,748	164,539	409,000	40%	355,349
General & Administrative	135,910	7,663	143,572	434,000	33%	346,257
Total Expense	1,335,125	873,627	2,208,752	5,204,600	42%	4,798,825
Net Income from Operations	645,401	-	645,401	553,600		916,257
Less: Capital Expenses	(289,938)	-	(289,938)	(3,285,700)	9%	(1,298,808)
Net Income After Capital	355,462	-	355,462	(2,732,100)	-13%	(382,551)
Capital Reimbursement (OU Projects)	-	-	-	658,300	0%	206,096
Grant Revenues	-	-	-	300,000	0%	-
Loan Proceeds	-	-	-	-	0%	1,510,461
Loan Payment (Interest & Principal)	(154,235)	-	(154,235)	(198,600)	78%	(111,903)
Change in Cash	201,227	-	201,227	(1,972,400)		1,222,103
Contributed Capital (Developer)	-	-	-	-	0%	70,825
Add: Capital Assets (District-Funded)	289,938	-	289,938	2,327,400	12%	1,092,712
Add: Debt Principal	114,638	-	114,638	117,200	98%	57,313
Less: Loan Proceeds	-	-	-	-	0%	(1,607,724)
Less: Depreciation Expense	(212,500)	(52,500)	(265,000)	(530,000)	50%	(422,416)
Net Income / (Loss)	\$ 393,303	\$ (52,500)	\$ 340,803	\$ (57,800)		\$ 412,814

*No assurance provided on these financial statements. These financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the United States not included.



La Puente Valley County Water District

Statement of Revenues & Expenses

For the Period Ending June 30, 2022

(Unaudited)

	June 2022	YTD 2022	BUDGET 2022	50% OF BUDGET	YEAR-END 2021
Operational Rate Revenues					
Water Sales	\$ 175,590	\$ 719,985	\$ 1,708,200	42%	\$ 1,609,408
Service Charges	75,876	419,163	839,400	50%	791,069
Surplus Sales	5,633	36,026	50,000	72%	50,785
Customer Charges	3,175	13,988	10,000	140%	7,261
Fire Service	11,529	36,942	73,000	51%	68,884
Miscellaneous Income (Cust. Charges)	496	620	500	124%	992
Total Operational Rate Revenues	272,300	1,226,723	2,681,100	46%	2,528,399
Operational Non-Rate Revenues					
Management Fees	50,255	181,692	317,200	57%	365,419
PVOU Service Fees (Labor)	-	16,347	150,000	11%	29,764
BPOU Service Fees (Labor)	28,075	173,823	319,800	54%	313,800
IPU Service Fees (Labor)	54,538	366,836	777,500	47%	736,647
Other O&M Fees	4,650	4,650	10,000	46%	12,748
Total Operational Non-Rate Revenues	137,518	743,348	1,574,500	47%	1,458,378
Non-Operational Revenues					
Taxes & Assessments	46,290	160,923	320,000	50%	321,192
Rental Revenue	3,405	20,132	40,000	50%	42,204
Interest Revenue	-	2,350	10,000	23%	9,205
Market Value Adjustment	-	-	-	0%	(14,371)
Miscellaneous Income	(781)	(146)	6,000	-2%	17,022
Developer Fees	-	1,019	-	0%	179,671
Total Non-Operational Revenues	48,915	184,277	376,000	49%	554,923
Total Revenues	458,732	2,154,349	4,631,600	47%	4,541,699
Salaries & Benefits					
Total District Wide Labor	115,391	697,104	1,350,000	52%	1,248,844
Directors Fees & Benefits	7,306	40,653	115,000	35%	73,461
Benefits	24,866	159,641	330,000	48%	305,463
OPEB Payments	7,421	37,703	55,000	69%	77,225
OPEB Trust Contributions	25,000	50,000	100,000	50%	100,000
Payroll Taxes	9,036	56,026	106,700	53%	98,357
CalPERS Retirement (Normal Costs)	20,310	75,448	158,000	48%	132,146
CalPERS Unfunded Accrued Liability	-	-	68,500	0%	30,413
Total Salaries & Benefits	209,330	1,116,575	2,283,200	49%	2,065,908
District Salaries & Benefits (Informational Only)					
Less: Labor Service Revenue	(82,613)	(557,006)	(1,247,300)	45%	(1,080,211)
Net District Salaries & Benefits	126,716	559,569	1,035,900	54%	985,697

*No assurance provided on these financial statements. These financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the United States not included.



La Puente Valley County Water District

Statement of Revenues & Expenses

For the Period Ending June 30, 2022

(Unaudited)

	June 2022	YTD 2022	BUDGET 2022	50% OF BUDGET	YEAR-END 2021
Supply & Treatment					
Purchased & Leased Water	244	37,415	551,500	7%	468,527
Power	18,048	87,030	200,000	44%	174,166
Assessments	-	-	333,300	0%	335,711
Treatment	296	1,341	6,000	22%	3,014
Well & Pump Maintenance	307	45,887	40,000	115%	18,842
Total Supply & Treatment	18,896	171,673	1,130,800	15%	1,000,260
Other Operating Expenses					
General Plant	1,786	11,310	35,000	32%	30,580
Transmission & Distribution	3,421	15,917	80,000	20%	102,962
Vehicles & Equipment	291	23,102	25,000	92%	25,002
Field Support & Other Expenses	1,184	26,231	60,000	44%	41,334
Regulatory Compliance	4,688	8,230	50,000	16%	30,890
Total Other Operating Expenses	11,370	84,791	250,000	34%	230,767
General & Administrative					
District Office Expenses	2,460	32,433	45,000	72%	36,759
Customer Accounts	2,490	16,395	32,000	51%	29,846
Insurance	4,617	9,370	82,000	11%	71,916
Professional Services	3,561	40,578	115,000	35%	131,625
Training & Certification	4,914	14,108	45,000	31%	9,223
Public Outreach & Conservation	(1,307)	9,794	30,000	33%	14,188
Other Administrative Expenses	2,232	13,233	65,000	20%	34,949
Total General & Administrative	18,966	135,910	414,000	33%	328,506
Total Expense	258,562	1,508,948	4,078,000	37%	3,625,442
Net Income from Operations	200,170	645,401	553,600	117%	916,257
Capital Expenses					
Fire Hydrant Repair/Replacements	-	(6,470)	(23,000)	28%	(11,619)
Service Line Replacements	-	-	(45,000)	0%	(53,238)
Valve Replacements	-	(49)	(25,000)	0%	(5,547)
Meter Replacement / Reading Equipment	-	(1,715)	(25,000)	7%	(9,295)
SCADA Improvements	-	(2,800)	(30,000)	9%	(93,593)
Hudson Ave Pumping Improvements	-	(1,314)	(552,700)	0%	(47,042)
LP CIWS Interconnection (Ind. Hills)	-	-	(65,000)	0%	(9,054)
Nitrate Treatment System	-	(276,307)	(2,060,000)	13%	(1,019,990)
Recycled Water System - Phase 1	-	(1,282)	(300,000)	0%	(49,431)
Dump Truck	-	-	(150,000)	0%	-

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La Puente Valley County Water District

Statement of Revenues & Expenses

For the Period Ending June 30, 2022

(Unaudited)

	June 2022	YTD 2022	BUDGET 2022	50% OF BUDGET	YEAR-END 2021
Other Field Equipment	-	-	(10,000)	0%	-
Total Capital Expenses	-	(289,938)	(3,285,700)	9%	(1,298,808)
Net Income / (Loss) After Capital	200,170	355,462	(2,732,100)	-13%	(382,551)
Funding & Debt Payments					
Capital Reimbursement (OU Projects)	-	-	658,300	0%	206,096
Grant Revenues	-	-	300,000	0%	-
Loan Proceeds	-	-	-	0%	1,510,461
Loan Payment - Interest	-	(39,597)	(81,400)	49%	(54,590)
Loan Payment - Principal	-	(114,638)	(117,200)	98%	(57,313)
Cash Increase / (Decrease)	200,170	201,227	(1,972,400)		1,222,103
Contributed Capital	-	-	-	0%	70,825
Add: Capitalized Assets (District-Funded)	-	289,938	2,327,400	12%	1,092,712
Add: Debt Principal	-	114,638	117,200	98%	57,313
Less: Loan Proceeds	-	-	-	0%	(1,510,461)
Less: Depreciation Expense	(35,417)	(212,500)	(425,000)	50%	(422,416)
Less: Pension Expense	-	-	-	0%	-
Less: OPEB Expense	-	-	-	0%	-
Net Income / (Loss)	\$ 164,754	\$ 393,303	\$ 47,200		\$ 510,076

*No assurance provided on these financial statements. These financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the United States not included.



LPVCWD Treatment Plant

Statement of Revenues & Expenses

For the Period Ending June 30, 2022
(Unaudited)

	June 2022	YTD 2022	BUDGET 2022	50% OF BUDGET	YEAR-END 2021
Operational Non-Rate Revenues					
Reimbursements from CR's	196,980	699,804	\$ 1,446,400	48%	1,173,382
Miscellaneous Income	-	-	-	0%	-
Total Operational Non-Rate Revenues	196,980	699,804	1,446,400	48%	1,173,382
Labor & Benefits					
BPOU TP Labor	28,075	173,823	319,800	54%	313,800
Total Labor & Benefits	28,075	173,823	319,800	54%	313,800
Supply & Treatment					
NDMA, 1,4-Dioxane Treatment	7,325	96,831	212,200	46%	242,642
VOC Treatment	-	1,502	20,600	7%	46,863
Perchlorate Treatment	141,052	273,921	389,000	70%	353,153
Other Chemicals	1,816	5,524	57,300	10%	20,835
Treatment Plant Power	30,193	144,276	220,500	65%	272,168
Treatment Plant Maintenance	5,228	57,048	48,000	119%	92,238
Well & Pump Maintenance	307	33,292	-	0%	3,150
Total Supply & Treatment	185,922	612,394	947,600	65%	1,031,050
Other Operating Expenses					
Contract Labor	-	-	20,000	0%	-
General Plant	2,081	19,185	15,000	128%	27,798
Transmission & Distribution	-	-	-	0%	8,838
Vehicles & Equipment	1,021	5,980	13,000	46%	10,637
Field Support & Other Expenses	-	-	-	0%	-
Regulatory Compliance	7,134	54,583	111,000	49%	77,308
Total Other Operating Expenses	10,235	79,748	159,000	50%	124,582
General & Administrative					
District Office Expenses	-	-	2,500	0%	-
Insurance	-	-	10,000	0%	10,544
Professional Services	823	7,663	7,500	102%	7,207
Total General & Administrative	823	7,663	20,000	38%	17,751
Total Expense	225,055	873,627	1,446,400	60%	1,487,182
Total Expense (excluding Labor)	196,980	699,804	1,126,600	62%	1,173,382
Operational Net Income	-	-	-		-
Less: Depreciation Expense	(8,750)	(52,500)	(105,000)	50%	(97,263)
Net Income / (Loss)	\$ (8,750)	\$ (52,500)	\$ (105,000)	50%	\$ (97,263)

(1) The labor expense depicted here is the amount of labor billed to the BPOU in which the District receives reimbursement which is shown on Table 1.5 in operational non-rate revenue (BPOU Service Fees).

*No assurance provided on these financial statements. These financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the United States not included.

INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS
Statement of Revenue and Expenses Summary
For the Period Ending June 30, 2022
(Unaudited)

	June 2022	FISCAL YTD 2021-22	BUDGET 2021-22	100% OF BUDGET	YEAR END FY 2020-21
REVENUE					
Operational Revenue	\$ 137,103	\$ 2,006,561	\$ 1,866,000	108%	\$ 1,929,343
Non-Operational Revenue	-	34,718	52,500	66%	66,099
TOTAL REVENUES	137,103	2,041,278	1,918,500	106%	1,995,442
EXPENSE					
Salaries & Benefits	55,693	731,704	719,000	102%	666,422
Supply & Treatment	18,799	244,583	909,300	27%	832,904
Other Operating Expense	21,940	177,545	254,000	70%	195,214
General & Administrative	54,084	310,122	366,600	85%	283,775
System Improvements & Miscellaneous	14,488	82,700	102,500	81%	135,802
TOTAL EXPENSE	165,004	1,546,654	2,351,400	66%	2,114,117
NET INCOME / (LOSS)	(27,901)	494,625	(432,900)	-114%	(118,675)

INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS

Statement of Revenue and Expenses

For the Period Ending June 30, 2022

(Unaudited)

	June 2022	FISCAL YTD 2021-22	BUDGET 2021-22	100% OF BUDGET	YEAR END FY 2020-21
Operational Revenues					
Water Sales	\$ 78,894	\$ 1,229,450	\$ 1,150,000	107%	\$ 1,202,198
Service Charges	50,236	637,645	610,000	105%	619,862
Customer Charges	2,126	15,090	3,000	503%	3,005
Fire Service	5,847	124,375	103,000	121%	104,277
<i>Total Operational Revenues</i>	137,103	2,006,561	1,866,000	108%	1,929,343
Non-Operational Revenues					
Contamination Reimbursement	-	34,718	50,000	69%	55,276
Developer Fees	-	-	2,500	0%	10,823
<i>Total Non-Operational Revenues</i>	-	34,718	52,500	66%	66,099
TOTAL REVENUES	137,103	2,041,278	1,918,500	106%	1,995,442
Salaries & Benefits					
Administrative Salaries	23,027	243,902	221,000	110%	214,069
Field Salaries	13,999	245,127	243,000	101%	218,119
Employee Benefits	10,108	136,706	145,000	94%	131,105
Pension Plan	4,932	68,342	72,000	95%	67,955
Payroll Taxes	2,473	33,069	31,000	107%	29,228
Workers Compensation	1,154	4,558	7,000	65%	5,946
<i>Total Salaries & Benefits</i>	55,693	731,704	719,000	102%	666,422
Supply & Treatment					
Purchased Water - Leased	-	-	399,100	0%	375,508
Purchased Water - Other	1,101	13,897	20,000	69%	15,064
Power	17,699	197,997	170,000	116%	150,405
Assessments	-	13,236	283,200	5%	278,882
Treatment	-	-	7,000	0%	5,233
Well & Pump Maintenance	-	19,453	30,000	65%	7,812
<i>Total Supply & Treatment</i>	18,799	244,583	909,300	27%	832,904
Other Operating Expenses					
General Plant	654	6,315	55,000	11%	5,707
Transmission & Distribution	727	75,346	85,000	89%	91,588
Vehicles & Equipment	16,507	33,967	36,000	94%	30,533
Field Support & Other Expenses	1,067	33,277	40,000	83%	33,329
Regulatory Compliance	2,984	28,640	38,000	75%	34,056
<i>Total Other Operating Expenses</i>	21,940	177,545	254,000	70%	195,214

INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS

Statement of Revenue and Expenses

For the Period Ending June 30, 2022

(Unaudited)

	June 2022	FISCAL YTD 2021-22	BUDGET 2021-22	100% OF BUDGET	YEAR END FY 2020-21
General & Administrative					
Management Fee	50,255	199,049	199,100	100%	195,146
Office Expenses	1,515	26,443	30,000	88%	21,646
Insurance	-	10,517	17,500	60%	15,978
Professional Services	-	26,178	70,000	37%	21,636
Customer Accounts	1,612	25,024	30,000	83%	24,864
Public Outreach & Conservation	210	16,603	15,000	111%	195
Other Administrative Expenses	493	6,308	5,000	126%	4,311
<i>Total General & Administrative</i>	54,084	310,122	366,600	85%	283,775
Other Exp. & System Improvements (Water Ops Fund)					
Fire Hydrant Repair/Replace	-	24,566	6,500	378%	3,562
Service Line Replacements	-	15,300	30,000	51%	51,825
Valve Replacements & Installations	14,488	14,527	19,000	76%	15,570
Meter Read Collection System	-	-	12,000	0%	11,260
SCADA Improvements	-	19,499	10,000	195%	14,014
Water Rate Study	-	6,088	-	0%	4,800
Groundwater Treatment Facility Feas. Study	-	2,720	25,000	11%	34,770
<i>Total Other & System Improvements</i>	14,488	82,700	102,500	81%	135,802
TOTAL EXPENSES	165,004	1,546,654	2,351,400	66%	2,114,117
NET INCOME / (LOSS)	(27,901)	494,625	(432,900)		(118,675)



RESOLUTION NO. 283

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE LA PUENTE VALLEY COUNTY WATER DISTRICT
PROCLAIMING A STATE OF EMERGENCY PERSISTS, RE-RATIFYING THE
PROCLAMATION OF A STATE OF EMERGENCY BY GOVERNOR GAVIN NEWSOM,
AND RE-AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF THE BOARD OF
DIRECTORS OF LA PUENTE VALLEY COUNTY WATER DISTRICT FOR THE PERIOD
JULY 25, 2022, TO AUGUST 23, 2022, PURSUANT TO BROWN ACT PROVISIONS.**

WHEREAS, the La Puente Valley County Water District (the “District”) is committed to preserving and nurturing public access and participation in meetings of its Board of Directors; and

WHEREAS, all meetings of the District’s Board of Directors and its standing committees are open and public, as required by the Ralph M. Brown Act (California Government Code Sections 54950 – 54963), so that any member of the public may attend, participate, and watch those bodies conduct their business; and

WHEREAS, the Brown Act, in Government Code Section 54953(e), makes provision for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code Section 54953(b)(3), subject to the existence of certain conditions; and

WHEREAS, a required condition for application of Section 54953(e) is that a state of emergency is declared by the Governor pursuant to Government Code Section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code Section 8558; and

WHEREAS, a proclamation is made when there is an actual incident, threat of disaster, or extreme peril to the safety of persons and property within the jurisdictions that are within the District’s boundaries, caused by natural, technological or human-caused disasters; and

WHEREAS, it is further required that state or local officials have imposed or recommended measures to promote social distancing, or, the legislative body meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, the Board of Directors previously adopted a Resolution, Resolution No. 274 on October 25, 2021 finding that the requisite conditions exist for the District’s Board of Directors and standing committees to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of Section 54953; and

WHEREAS, as a condition of extending the use of the provisions found in Section 54953(e), the Board of Directors must reconsider the circumstances of the state of emergency that exists in the District, and the Board of Directors has done so; and;

WHEREAS, emergency conditions persist in the District, specifically, COVID-19, its Delta, Omicron, and BA.2 variant, remain highly contagious and, therefore, a threat to the health, safety and well-being of the District's employees, directors, vendors, contractors, customers and residents; and

WHEREAS, orders from the Los Angeles County Department of Public Health and regulations from the State of California impose limitations on gatherings and provide guidance on best practices with respect to actions to reduce the spread of COVID-19; and

WHEREAS, the District's Board of Directors does hereby find that a state of emergency exists within the District's service area as a result of the continuing presence of COVID-19 and resulting local, state and federal orders and guidance, which has caused, and will continue to cause, conditions of peril to the safety of persons within the District that are likely to be beyond the control of services, personnel, equipment, and facilities of the District, and the Board of Directors desires to affirm a local emergency exists and re-ratify the proclamation of state of emergency by the Governor of the State of California; and

WHEREAS, as a consequence of the local emergency, the Board of Directors does hereby find that the District's Board of Directors and all standing committees shall conduct their meetings without compliance with paragraph (3) of subdivision (b) of Government Code Section 54953, as authorized by subdivision (e) of Section 54953, and that such legislative bodies shall continue to comply with the requirements to provide the public with access to the meetings as prescribed in paragraph (2) of subdivision (e) of Section 54953; and

WHEREAS, the District will continue to provide proper notice to the public regarding all District of Board of Directors' and standing committee meetings, in accordance with Government Code Section 54953(e)(2)(A) and shall provide notice to the public of how they may access any such meeting via call-in number and/or internet link.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF LA PUENTE VALLEY COUNTY WATER DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. Affirmation that Local Emergency Persists. The Board of Directors hereby considers the conditions of the state of emergency in the District and proclaims that a local emergency persists throughout the District, and that conducting District Board of Directors and standing committee meetings virtually will minimize the possible spread COVID-19 and any variant thereof.

Section 3. Re-Ratification of Governor's Proclamation of a State of Emergency. The Board hereby ratifies the Governor of the State of California's Proclamation of State of Emergency regarding COVID-19, dated March 4, 2020.

Section 4. Remote Teleconference Meetings. The District's General Manager, or his delegee, and the Board of Directors and standing committees of the District are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution including, continuing to conduct open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.

Section 5. Effective Date of Resolution. This Resolution shall take effect immediately upon its adoption and shall be effective until the earlier of (i) the expiration of thirty (30) days from the date this Resolution was adopted, as set forth below, or (ii) such time as the Board of Directors adopts a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend the time during

which the Board of Directors and standing committees of the District may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

PASSED AND ADOPTED by the Board of Directors of La Puente Valley County Water District this 25th day of July 2022, by the following vote:

AYES:

NOES:

ABSENT: None

ABSTAIN: None

William R. Rojas
President of the Board

ATTEST:

Roy Frausto
Board Secretary

Memo



To: Honorable Board of Directors
From: Roy Frausto, General Manager
Date: July 25, 2022
Re: Rules & Regulations Governing Recycled Water Service

Purpose

Rules and Regulations (Rules and Regs) establish procedures for the distribution and use of recycled water by LPVCWD within the District's designated Recycled Water Use Areas. Since recycled water is considered unsafe for human consumption, it is important that these Rules and Regs contain provisions, which will minimize or eliminate the possible misuse of recycled water. In addition, the Rules and Regs provide design, administrative, operation and construction requirements for obtaining recycled water service and the use of recycled water.

Background

In April 2013, the Board of Directors received and filed the District's Draft Recycled Water Feasibility Study to support the fruition of the Recycled Water Project. From this point forward, several other Board related action items were taken to support the project as summarized below:

- July 2015 - The Board approved a Memorandum of Understanding with Upper San Gabriel Valley Municipal Water District (Upper District) for Recycled Water Project Funding.
- January 2016 - The Board adopted Resolution No. 238 Accepting and Adopting the CEQA Mitigation Negative Declaration for the Upper San Gabriel Valley Municipal Water District Recycled Water Program Expansion, which incorporated the District's Phase 1 Recycled Water System.
- April 2016 - The Board adopted Resolution No. 239 establishing a Recycled Water Mandatory Use Ordinance.
- October 2017 - The Board approved the Plans and Specifications for the Recycled Water Project Phase 1
- July 2019 - The Board approved the MWD LRP Agreement.

Summary

The Rules and Regs for Recycled Water pertain to recycled water service to land or improvements, or both, lying within the boundaries of LPVCWD's service area and within the areas where recycled water facilities are available. LPVCWD approval of any proposed use will be contingent upon LACDPH approval as required. These Rules and Regs establish specific requirements and procedures for users and ensure compliance with applicable laws pertaining to Recycled Water.

The acceptable uses of recycled water include any of the following:

- Parks, greenbelts, and playgrounds;
- School yards;
- Athletic fields;
- Golf courses;
- Cemeteries;
- Commercial landscaping, except eating areas;
- Industrial landscaping, except eating areas;
- Freeway, highway and street landscaping;
- Agricultural irrigation;
- Industrial and commercial uses (dual plumbing, manufacturing, etc.);
- Fire fighting (only with special approval);
- Construction use (soil compaction, dust control, etc.); and
- Groundwater recharge (case-by-case basis).

The permitting process to establish recycled water service will include the following principal steps:

- Preliminary Determination Notice
- Notice of Objection (if necessary)
- Final Determination Notice
- Application for a Use Permit
- Approval of the Applicant's Plans
- Construction
- Final inspection, operational testing and cross-connection testing
- Final approval for recycled water service and complete Use Permit

In summary, the Rules and Regs include specifics on the following:

- Recycled Water Service Requirements
- Facilities Design and Construction
- Technical Requirements
- Construction Specifications
- Operational Requirements
- Violations and Enforcement
- Standard Detail Drawings

Recommendation

Staff recommends the Board establish Rules and Regulations governing recycled water service by adopting Resolution No. 284.

Respectfully Submitted,



General Manager

Enclosure

- *Rules and Regulations Governing Recycled Water Service*
- *Resolution 284*



LA PUENTE VALLEY COUNTY WATER DISTRICT

112 N. FIRST STREET
LA PUENTE, CA 91744
(626) 330-2126
LAPUENTEWATER.COM

RULES AND REGULATIONS GOVERNING RECYCLED WATER SERVICE

**THE RULES AND REGULATIONS
HEREIN ARE SUBJECT TO PERIODIC
REVISIONS AND UPDATES**

ADOPTED JULY 25, 2022

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Appendices

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- Appendix B – SAMPLE Final Determination Notice
- Appendix C – Checklist/Action Request Form for Obtaining Recycled Water Service
- Appendix D – Recycled Water Service Application
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- Appendix F – Recycled Water Testing Form
- Appendix G – Recycled Water Spill Report
- Appendix H – On-Site Supervisor Do’s and Don’ts

SECTION 1

INTRODUCTION AND PURPOSE

1.1 INTRODUCTION

The La Puente Valley County Water District (“LPVCWD” or “District”) is located in the City of La Puente in Los Angeles County. LPVCWD provides recycled water in portions of the LPVCWD service area as depicted on **Exhibit 1**. Each applicant shall verify the location of the existing recycled water facilities relative to its property and confirm with LPVCWD if there is available capacity in that portion of the recycled water system. Facts necessary for such verification may be obtained from LPVCWD. However, the fact that LPVCWD provides such information is not a commitment to provide recycled water or a guarantee that capacity will be available at the time of application therefore. LPVCWD’s recycled water use is regulated by the Los Angeles County Department of Public Health (“LACDPH”). Determination of the specific uses to be allowed shall be in accordance with the treatment standards and water quality requirements set forth in Title 22, Division 4, Chapter 3, of the California Code of Regulations and with the intent of these Rules and Regulations to protect the public health.

The following Rules and Regulations Governing Recycled Water Service (“Rules and Regs”) govern the distribution and use of recycled water for landscape irrigation and other permitted non-potable uses. LPVCWD approval of any proposed use will be contingent upon LACDPH approval as required. Recycled water may only be used in approved areas. LPVCWD approval of any proposed use area will be contingent upon regulatory agency approval as required. Only those use areas specified in the Permit are approved use areas.

1.2 BENEFITS OF RECYCLED WATER USE

Using recycled water for landscape irrigation provides the following benefits:

- Reduce dependence on imported water by using potable water for household consumption, sanitary uses and recycled water for irrigation;
- Enhance local supplies and reliability by using the water more than once;
- Create a more self-reliant water system, particularly important in times of unplanned service interruptions such as drought and emergencies; and
- Reduce treated wastewater discharge to the ocean.

Like most water retailers in the San Gabriel Valley, LPVCWD relies on groundwater from the Main San Gabriel Groundwater Basin to meet the majority of its customer demands. By expanding the recycled water usage, LPVCWD will reduce the dependency on potable water for irrigation and therefore, enhance overall supply reliability.

1.3 POLICY

The State of California through its Water Code Section 461 sets forth the policy of conserving all available water resources by requiring the maximum reuse of wastewater for the beneficial uses of water. Furthermore, the State of California declared that the people of the

State have a primary interest in the development of facilities to recycle wastewater to supplement existing surface and underground water supplies and to assist in meeting the future water requirements of the State (Water Code Section 13510). On April 25, 2016, LPVCWD's Board of Directors adopted Resolution No. 239, Establishing a Mandatory Use Ordinance for Recycled Water. The Mandatory Use Ordinance establishes a policy mandating that certain customers of the District utilize recycled water for certain purposes where and when recycled water is available and it is economically feasible for the customer to establish a recycled water connection.

In furtherance of the water conservation goals of the District and to help meet the growing water requirements of the State, it is the intent and policy of the District that recycled water shall be used within the District's service area where it can be reasonably supplied and such use is economically justified, technically feasible, consistent with legal requirements, and not detrimental to public health, safety and welfare, or the environment.

1.4 PURPOSE

These Rules and Regs establish procedures for the distribution and use of recycled water by LPVCWD within the District's designated Recycled Water Use Areas. Since recycled water is considered unsafe for human consumption, it is important that these Rules and Regs contain provisions, which will minimize or eliminate the possible misuse of recycled water. In addition, the Rules and Regs provide design, administrative, operation and construction requirements for obtaining recycled water service and the use of recycled water.

1.5 SUMMARY OF AUTHORITY

LPVCWD is authorized to review, approve or disapprove, and initiate enforcement or mitigation actions for all actions or proposed actions relating to the distribution, or use of recycled water by the Users within the LPVCWD's service area.

Any User of recycled water shall allow LACDPH, LPVCWD, Sanitation Districts of Los Angeles County ("San District") or an authorized representative of these parties, or any representative from the SWRCB DDW, upon presentation of proper credentials, to inspect the facilities and the Approved Use Area of any recycled water to ascertain whether the User is complying with these Rules and Regs. The User, the Operator and any operations personnel, are obligated to cooperate with those making the inspection and to assist in the performance of any operational tests as requested.

It is LPVCWD's policy, if recycled water service is determined by LPVCWD to be economically, financially, and technically feasible in accordance with the requirements contained in these Rules and Regs, then the applicant, owner or customer can be required to utilize recycled water service. The use of potable water for uses when recycled water is available is contrary to LPVCWD's policy, and is not considered the most beneficial use of a natural resource and shall be avoided to the maximum extent possible. See Section 3.13 of this document ("Recycled Water Non-Conformance") for additional information.

1.6 INTERPRETATION

These Rules and Regs shall be interpreted to further the purpose and policy set forth above. To the extent these Rules and Regs depend upon or incorporate Title 22, any amendment thereto shall be incorporated by reference in these Rules and Regs accordingly.

SECTION 2 DEFINITIONS

For the purpose of these Rules and Regs, the following terms, phrases, words and their derivations shall have the meanings given below. When not inconsistent with the context, words used in the present tense include the future, words in the plural include the singular number, and words in the singular include the plural number. The work “shall” is always mandatory and not merely directory.

AIR-GAP SEPARATION: a physical break between a supply line and a receiving vessel. The air-gap shall be at least double the diameter of the supply pipe, measured vertically above the flood rim of the vessel, and in no case less than one inch. The design shall be to the satisfaction of the District, and the regulatory agencies.

AGRONOMIC RATE: the rate of application of recycled water to plants that is necessary to satisfy the plants’ watering and nutritional requirements, considering supplemental water (e.g., precipitation) and supplemental nutrients (e.g., fertilizers), while preventing or strictly minimizing the amount of nutrients that pass beyond the plants’ root zone.

AMERICAN WATER WORKS ASSOCIATION (“AWWA”): the American Water Works Association.

ANSI: American National Standards Institute.

APPLICANT: any person, firm, owner, engineer, builder, corporation, developer, association, agency, or authorized representative who applies for recycled water service under the terms of these Rules and Regs. A successful applicant becomes a recycled water customer.

APPLICATION RATE: the rate at which recycled water is applied to an irrigation or construction area expressed in inches per day or gallons per minute per acre.

APPROVED BACKFLOW PREVENTION DEVICE: a device installed to protect the potable water supply from contamination and pollution as approved by LACDPH, SWRCB-DDW, the Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California, School of Engineering (“USC”) and the District in conformance with portions of Title 17 of the California Code of Regulations (Title 17).

APPROVED USE AREA: a site, with defined boundaries, designated in a Recycled Water Permit issued by the District to receive recycled water for an approved use.

APPROVED USE: the use of recycled water in a manner, and for such purpose, according to a Recycled Water Permit issued by the District and in compliance with any and all applicable regulatory agency requirements.

AS-BUILT DRAWINGS: see also RECORD DRAWINGS.

ASTM: American Society for Testing and Materials.

AUTOMATIC SYSTEM: with reference to landscape irrigation systems, automatic controllers, valves, and associated equipment required for the programming of effective water application rates when using recycled water.

AWWA GUIDELINES: AWWA’s “Guidelines for Distribution of Non-potable Water,” California Nevada Section, latest edition or “Guidelines for the On-site Retrofit for Facilities Using Disinfected Tertiary Recycled Water,” latest edition.

AWWA STANDARDS: AWWA’s Standards for Construction Materials, latest edition.

BOARD OF DIRECTORS: the LPVCWD Board of Directors.

COMMERCIAL USE: the use of recycled water for toilets, urinals, decorative fountains, and similar non-residential uses.

CONSTRUCTION USE: the approved use of recycled water for construction activities such as soil compaction, mixing concrete, and dust control during grading.

CONTRACTOR: a person, persons, or firm entering into a legal agreement with the Applicant, Owner, or the District for the performance of work on all or any portion of facilities subject to these Rules and Regs.

CONVERSION: changing on-site supply from potable water to recycled water in systems that were originally designed and installed to use potable water (see also RETROFIT).

COUNTY: the County of Los Angeles, California.

CROSS-CONNECTION: any unprotected actual or potential connection between a potable water system and any source or system containing recycled or other non-potable water or a substance that is not or cannot be approved as safe, wholesome, and potable; by-pass arrangements, jumper connections, removable sections, swivel or change-over devices and other devices through which backflow could occur, shall be considered to be cross-connections; cross connections shall be as defined in Title 17, California Code of Regulations.

CROSS-CONNECTION SPECIALIST: a person certified by California-Nevada Section of AWWA or approved equivalent who coordinates and monitors a cross-connection inspection and control program to prevent contamination of the potable system used to supply water for drinking purpose by any source or system containing unapproved water or a substance that is not or cannot be approved as safe and potable.

CUSTOMER: any person, firm, corporation, association, partnership or agency that holds a District Recycled Water Permit, including any agent or authorized representative thereof for use in accordance with the Rules and Regs.

DDW: State Water Resources Control Board’s Division of Drinking Water; also referred to herein as SWRCB DDW.

DESIGN AREA: a site, with well-defined boundaries, proposed to receive recycled water for an approved use, as delineated in the application for recycled water service and/or permit.

DIRECT BENEFICIAL USE: the use of recycled water, which has been transported from the point of treatment or production to the point of use without an intervening discharge to waters of the State.

DIRECT OVERSPRAY: any discharge of water directly onto areas other than that for which the application of recycled water is approved.

DISCHARGE: any release or distribution of recycled water to a use area or disposal site/mechanism (outfall, live stream discharge, municipal sewage system); all discharges of recycled water must be approved by the regulatory agencies.

DISINFECTED TERTIARY RECYCLED WATER: filtered and subsequently disinfected wastewater that meets the criteria defined in CCR Title 22, Sections 60301.230 and 60301.320.

DISTRICT: the La Puente Valley County Water District.

GENERAL MANAGER: the General Manager of the La Puente Valley County Water District.

GPH: the rate of recycled water delivery in gallons per hour.

GPM: the rate of recycled water delivery in gallons per minute.

GRAY WATER: untreated wastewater other than toilet and/or urinal (“sanitary”) wastes.

HCF: hundreds of cubic feet.

HGL: hydraulic grade line.

HOSE BIB: a faucet or similar device to which a common garden hose can be readily attached (Title 22 Section 60301.400).

INCIDENTAL RUNOFF: unintended small amounts (volume) of runoff from recycled water use areas, such as over-spray from sprinklers that escapes the recycled water use area. Water leaving a recycled water use area is not considered incidental if it is part of the facility design, if it is due to excessive application, if it is due to intentional overflow or application, or if it is due to negligence.

INDUSTRIAL USE: water used for industrial processes such as cooling, flushing, or construction, and other related uses.

INFILTRATION RATE: the rate at which water will penetrate the soil surface and enter the soil profile, expressed in inches per hour or centimeters per hour.

INSPECTION AND TESTING: LPVCWD will perform regularly scheduled on-site visits

with operational testing accompanied by customer representative. The inspection and testing schedule will be determined by the LPVCWD.

INSPECTOR: also known as the cross connection specialist is any person(s) authorized by the District to perform inspections of either onsite or offsite facilities or areas prior to construction, during construction, after construction and during operation.

IRRIGATION SYSTEM: all equipment and materials required for applying irrigation water to the design area from the service connection including all piping, valves, sprinkler heads, controllers, and appurtenances.

MGD: million gallons per day.

NON-POTABLE WATER: water not satisfactory for drinking, culinary and domestic purposes or that does not meet the requirements of the health authority having jurisdiction. Non-potable water includes recycled water.

OFFSITE FACILITIES: facilities under the control of the District including, but not limited to, recycled water transmission mains, recycled water pipelines, reservoirs, pumping stations, treatment plants, and other appurtenances and property. For recycled water service, offsite facilities shall be those upstream of the point of connection with the Customer's onsite facilities, normally ending with the meter tailpiece.

OFFSITE SUPERVISOR: a qualified person designated by the District to be responsible for the safe and efficient operation of the District's recycled water distribution system; this person shall be knowledgeable in the construction and operation of recycled water distribution systems and in the application of State and local guidelines, criteria, standards, and regulations governing the use of recycled water.

ON-SITE FACILITIES: the facilities under the control of the Applicant, Owner or Customer including, but not limited to industrial water systems, landscape irrigation systems and agricultural irrigation systems. For recycled water service, the onsite facilities shall be those downstream of the recycled water service connection, which shall normally begin with the meter tailpiece.

ON-SITE SUPERVISOR: a qualified person designated by a recycled water customer and approved by LPVCWD to be responsible for the safe and efficient operation of the customer's recycled water system; this person shall be knowledgeable in the construction and operation of recycled water and irrigation systems and in the application of State and local guidelines, criteria, standards and regulations governing the use of recycled water; this person shall be trained in cross-connection control and approved recycled water use and the proper use of recycled water to the satisfaction of LPVCWD.

OPERATIONS PERSONNEL: any employee of the Owner, or Customer, whether permanent or temporary, or any contracted worker whose regular or assigned work involves the supervision, operation, or maintenance of equipment, facilities, or a system on any portion of on-site facilities using recycled water.

OWNER: any holder of legal title, contract purchaser, or lessee under a lease with an

unexpired term of more than one (1) year, of property for which recycled water service has been requested or established.

PERMIT: a permit issued by the District to a recycled water service Applicant after the satisfactory completion of the service application procedures set forth in these Rules and Regs. The Permit constitutes a service agreement, which legally binds the Customer to all conditions of the Permit and these Rules and Regs.

PLANS: the plans, working drawings, detail drawings, specifications, profiles, typical cross sections and supplemental drawings or reproductions thereof that shows locations, character, dimensions or details of the work.

PLAN CHECK & INSPECTION FEES: the fees to be paid to LPVCWD by the Applicant at the time the Applicant submits improvement plans for LPVCWD approval. The amount of fees shall be established by LPVCWD.

PERMITTED CAPACITY OF RECYCLED WATER: the amount of recycled water that the Customer is permitted to have for the use area specified in the Recycled Water Permit.

POINT OF CONNECTION (POC): the point of connection of the Customer's onsite facilities to the offsite facilities of the recycled water distribution system.

PONDING: the retention of recycled water on the surface of the ground or other man-made surfaces, other than the approved use area, for a period of time following the cessation of an approved recycled water use activity such that a hazard or potential hazard to public health results.

POTABLE WATER: water that is pure, wholesome and suitable for human consumption, and which conforms to the latest edition of the U.S. Environmental Protection Agency National Primary Drinking Water Regulations, the California Safe Drinking Water Act, and any other applicable standards.

PPC: positive pressure check.

PSI: pounds per square inch.

PURPLE BOOK: an aggregate of California health laws related to recycled water, including excerpts from the Health and Safety Codes, Water Code and Titles 22 and 17 of the California Code of Regulations, latest edition.

PVC: polyvinyl chloride.

RECORD DRAWINGS: approved electronic drawings that correctly show the completed onsite facilities and/or offsite facilities as constructed or modified (as-built). These drawings shall show all potable water, recycled water and sewer lines, and other utility lines.

RECYCLED WATER: the water served from the LPVCWD's offsite facilities as a result of treatment of municipal wastewater that is suitable for a direct beneficial use or a controlled use that would not otherwise occur. For this project, it is disinfected tertiary recycled which

is produced from wastewater by the Sanitation Districts' San Jose reclamation plant and is suitable for direct beneficial uses in accordance with Title 22. "Gray water" is specifically excluded from this definition.

RECYCLED WATER DISTRIBUTION SYSTEM: the recycled water pipelines and facilities constructed by LPVCWD to distribute the recycled water to the appropriate customers.

RECYCLED WATER FACILITIES: systems, structures, appurtenances, etc., used in the treatment, storage, pumping, transmission and distribution of recycled water.

RECYCLED WATER SERVICE CONNECTION: the connection of the Customer's recycled water line to the District's recycled water service line, which shall normally be the downstream end of the recycled water meter tailpiece.

RECYCLED WATER SERVICE LINE: the District's pipeline between its recycled water distribution system and the recycled water service connection.

RECYCLED WATER DISTRIBUTION LINES: recycled water distribution pipelines and appurtenances acquired or constructed and owned by the District and used for the conveyance of recycled water between the recycled water transmission mains and/or reservoirs, and the recycled water service connections and/or appurtenances.

RECYCLED WATER USE AREA (USE AREA): an area where recycled water is to be used which is defined by its boundaries or project area (e.g. a golf course, residential neighborhood, school yard, park, etc.) so as to be consistent with these Rules and Regs.

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (RPP): a backflow prevention device incorporating not less than two check valves, an automatically operated differential relief valve located between the two check valves, a tightly closing shut-off valve on each side of the check valve assembly, and equipped with necessary test cocks for testing.

REGULATIONS: these "Rules and Regulations for Recycled Water," and all rules and regulations of other local or State agency or other regulations referred to and incorporated herein.

REGULATORY AGENCIES: those public entities legally constituted by federal, state, and local statutes to protect public health and water quality.

RETROFIT: modifying on-site facilities that were originally designed to accommodate potable water use so that they now accommodate recycled water use in compliance with the Rules and Regs (see also "CONVERSION").

RUN-OFF shall mean the movement of recycled water beyond the boundaries of the designated use area along the surface of the ground or other natural or man-made surfaces including, but not limited to, pedestrian walkways, streets, playground surfaces, grassy slopes and drainage courses.

RWQCB: the Regional Water Quality Control Board of the State of California, Los Angeles Region.

SCHEDULE OF RATES: a schedule containing fees, charges, and deposits determined and issued by the District for the uses and services of recycled water.

SEPARATION: the horizontal and/or vertical distance between a recycled water pipeline and a parallel potable water pipeline, sewer pipeline, or a sludge force main. The separation shall be the clear distance between the outside faces of the pipelines in question.

SPRAY IRRIGATION: application of recycled water to land to maintain vegetation or support growth of vegetation by spraying it from sprinklers or orifices in piping.

STANDARD SPECIFICATIONS: specifications adopted by LPVCWD for construction of potable water and recycled water facilities.

STATE: State of California

SWRCB: State Water Resources Control Board

TENANT: any person, group, firm, partnership, corporation, association, or agency that pays rent to occupy and use land or a building.

UNAUTHORIZED DISCHARGE: any release of recycled water that violates the Rules and Regs or any applicable federal, state, or local statute, regulation, ordinance, contract, or other requirement. Per Water Code Section 13529.2, discharge of recycled water, without regard to intent or negligence, not authorized by waste discharge requirements issued pursuant to Water Code Sections 13260-13276 (e.g., RWD, WDRs, waiver, etc.), 13523 (i.e., WRRs), or 13523.1 (i.e., Master Reclamation Permit).

USE AREA: the specific area contained within a use site, designated to be served with recycled water through on-site facilities.

USE SITE: the specific property, containing one or more use areas, designated by the legally recorded tract and lot or parcel map description.

USER: any person, group, firm, partnership, corporation, association or agency accepting recycled water from LPVCWD's recycled water facilities for use in accordance with the Rules and Regs.

VIOLATION: noncompliance with any condition or conditions of the Rules and Regulations and/or a Use Permit by any person, action or occurrence, whether willfully or by accident.

WASTEWATER: water or a combination of water and water-carried wastes discharged into or permitted to enter a public sewer.

WORK: the entire improvement proposed to be constructed or altered pursuant to a legal agreement and consistent with the Rules and Regs.

SECTION 3

RECYCLED WATER SERVICE REQUIREMENTS

3.1 APPROVED USE

The Rules and Regulations for Recycled Water pertain to recycled water service to land or improvements, or both, lying within the boundaries of LPVCWD's service area and within the areas where recycled water facilities are available. If LPVCWD has determined that recycled water can be provided in accordance to the requirements contained in this section, such service can be provided only if a permit for such recycled water service is obtained in the manner hereinafter provided.

The acceptable uses of recycled water include any of the following:

- Parks, greenbelts, and playgrounds;
- School yards;
- Athletic fields;
- Golf courses;
- Cemeteries;
- Commercial landscaping, except eating areas;
- Industrial landscaping, except eating areas;
- Freeway, highway and street landscaping;
- Agricultural irrigation;
- Industrial and commercial uses (dual plumbing, manufacturing, etc.);
- Fire fighting (only with special approval);
- Construction use (soil compaction, dust control, etc.); and
- Groundwater recharge (case-by-case basis).

Each such use must be considered for approval by LPVCWD on a case-by-case basis, and LPVCWD may determine in its sole discretion whether it is feasible to furnish recycled water for the specific use involved. Prior to approving such uses, LPVCWD may, in its sole discretion, set forth specific requirements as conditions to providing such services and/or require specific prior approval from the appropriate regulatory agencies.

Recycled water may only be used for the acceptable uses in areas approved by LPVCWD. LPVCWD's determination of feasibility will be based on the following factors:

1. Whether recycled water may be furnished for the intended use at a cost to the customer that is economically less than potable water and is economically feasible to LPVCWD;

2. Whether recycled water use is in accordance with the standards of treatment and water quality requirements set forth in Title 22, Chapter 4, of the Code of California Regulations; and
3. Whether the use of recycled water can be made in a manner not detrimental to public health.

3.2 REQUIREMENTS TO USE RECYCLED WATER

LPVCWD will identify customers who are located within an area identified as capable of receiving service from LPVCWD's recycled water system and will determine the feasibility of providing recycled water service to these customers. LPVCWD will also review applications for new permits to determine the feasibility of providing recycled water service to these applicants.

Potential recycled water customers identified by LPVCWD that elect not to use recycled water that is available but can use recycled water in compliance with State and County regulatory requirements, these Rules and Regulations and can meet the criteria identified in Section 13550 of the California Code of Regulations, may be subject to the provisions in Section 3.13 of this document ("Recycled Water Non-Conformance").

If LPVCWD does not require the use of recycled water service, the customer may obtain recycled water service upon request but only if LPVCWD has determined that recycled water service to the customer is feasible and authorizes such use.

3.3 NEW DEVELOPMENT

If recycled water service is determined by LPVCWD to be feasible, applicants for new recycled water service shall be required to install on-site facilities to accommodate both potable water and recycled water service in accordance with these Rules and Regulations. Applicants for new or expanded water service shall be responsible for the full capital cost of on-site recycled water facilities and applicant-furnished offsite distribution facilities required as a condition of service.

3.4 RETROFIT/CONVERSION OF EXISTING SITE

LPVCWD may also require existing customers to retrofit existing on-site water service facilities to accommodate recycled water service. Except as otherwise provided herein or approved by LPVCWD, when an existing customer converts to recycled water service, the customer will pay the reasonable capital costs of retrofitting the on-site water service facilities and LPVCWD will provide the offsite facilities necessary to deliver recycled water to the meter.

3.5 PROCESS OF DETERMINATION

LPVCWD will determine which potential recycled water customers may be served with recycled water. LPVCWD staff will identify potential sites at which it believes recycled

water may be used. Identified potential recycled water use sites must meet the following criteria:

1. The recycled water is to be served to an available location. “Available location” shall mean: LPVCWD’s recycled water distribution system is in a street adjacent to or in reasonably close proximity to the subject property; or LPVCWD has notified a customer that if a written commitment to use recycled water has been received from the customer, LPVCWD will complete an extension of the distribution system to a street adjacent to the customer’s property;
2. LPVCWD can provide recycled water in the needed volume, quality, pressure and flow rate;
3. The construction/retrofit can be accomplished in compliance with Federal, State, County and District requirements;
4. The anticipated use(s) will not negatively impact public health; and
5. Recycled water is available at a reasonable cost, meaning the commodity cost for recycled water is less than the commodity cost for a like quantity of non-interruptible potable water and the net customer cost of facilities.

LPVCWD will contact recycled water use site representative to discuss the use of recycled water. Potential recycled water customers shall respond to LPVCWD inquiries as to the potential customer’s ability to use recycled water. Customer and LPVCWD shall engage in dialogue to determine if recycled water can be used.

If recycled water can be used, the customer shall work with LPVCWD toward the successful introduction and use of recycled water including obtaining regulatory approvals. If, according to the customer, recycled water cannot be used, customer shall provide written documentation to LPVCWD to support their position.

LPVCWD staff will review documentation provided by the customer supporting why recycled water cannot be used.

In the case of potential customers that elect not to respond to LPVCWD’s inquiries or do not provide documentation as to why recycled water cannot be used, LPVCWD can send a certified letter to the potential recycled water customer urging contact with LPVCWD to continue a meaningful dialogue regarding the potential use of recycled water.

3.6 APPLICATION PROCEDURE

The steps for obtaining recycled water service are summarized in Section 4 of this document (Permitting Process). Based on the review of the application, LPVCWD shall determine if the property to be served is in a suitable area for recycled water use, and if the necessary quantity and quality of recycled water can be made available to the applicant.

LPVCWD will notify the owner/customer if a preliminary approval is granted for the recycled water service application.

3.7 USE PERMIT

Once the preliminary approval is granted by LPVCWD, the owner or customer can proceed with the preparation of the plans and submittal of the Use Permit. The steps for obtaining the approved Use Permit are summarized in more detail within Section 4 of this document (Permitting Process).

3.8 SERVICE CONNECTIONS AND SIZE OF SERVICE LINE

LPVCWD reserves the right to determine the size of the recycled water service lines, the service connections, and the meters and shall also have the right to determine the kind and size of backflow protection devices for the potable water service, and any and all other appurtenances to the service.

The recycled water service lines shall be installed to a curb line or property line of the customer's property, abutting upon a public street, highway, alley, easement, lane, or road in which are installed the recycled water mains of LPVCWD.

LPVCWD reserves the right to limit the area of land under one ownership to be supplied by one recycled water service connection and recycled water meter. A recycled water service connection and recycled water meter shall not be used to supply adjoining property of a different owner. When property provided with a recycled water service connection and recycled water meter is subdivided, such connection and meter shall be considered as serving the lot or parcel of land that it directly or first enters. Additional recycled water mains and/or recycled water service lines will be required for all subdivided areas in accordance with these Rules and Regs.

All recycled water used on any premises where a meter is installed must pass through the meter. Customers shall be held responsible and charged for all recycled water passing through the meters.

Every recycled water service line shall be equipped with an acceptable curb stop or ball valve on the inlet side of the meter; such valve or curb stop being intended exclusively for the use of LPVCWD in controlling the recycled water supply through the recycled water service line. If the curb stop or ball valve is damaged by the customer's use or actions to an extent requiring replacement, such replacement shall be at the customer's expense.

Should a recycled water service line installed pursuant to the request of the applicant, owner, or customer be of the wrong size or installed at a wrong location, the cost of all changes required shall be paid by the applicant, owner, or customer.

All recycled water services provided prior to final street improvements shall be considered temporary and the costs for all repairs or changes required to be performed by LPVCWD shall be paid by the applicant, owner, or customer. No person shall make connection to LPVCWD's recycled water system facilities without a permit or except as provided in the permit issued by LPVCWD.

If a recycled water meter fails to register during any period or is known to register inaccurately, the customer shall be charged with an average daily consumption during the same month shown by the reading of the meter when in use and registering accurately.

Any customer may request that the meter through which recycled water is being furnished be examined and tested by LPVCWD for the purpose of ascertaining whether or not it is correctly registering the amount of recycled water being delivered through it. The meter will be tested in accordance with industry standard meter testing protocols. Water bills will be adjusted if the average meter error based on the three highest test flows indicated that the meter was registering more than 2.5 percent fast or more than 2.55 percent slow.

3.9 BACKFLOW PROTECTION

The purpose of these provisions is to protect LPVCWD's potable water supply against actual or potential cross-connections by isolating, within the premises, contamination or pollution that may occur because of undiscovered or unauthorized cross-connection on the premises. These provisions are in accordance with the California Code of Regulations, Title 17 (Public Health), Sections 7583-7605, entitled "Regulations Relating to Cross-Connections". Additional information concerning backflow prevention may be obtained from the "Manual of Cross-Connection Control", Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California, School of Engineering.

These provisions shall be in addition to and not in lieu of the controls and requirements of other regulatory agencies, such as local governmental agencies and local and State Health Departments. These regulations are intended to protect LPVCWD's potable water supply and are not intended to provide regulatory measures for protection of users from the hazards of cross-connections within their own premises. Notwithstanding these provisions, LPVCWD accepts no responsibility for cross-connections or resulting hazards or contamination.

Backflow prevention devices, as required in these provisions, shall be provided, installed, tested, and maintained by the applicant, owner, or customer at his expense. The devices shall be located on the premises served and shall not be on LPVCWD's portion of the system. All devices shall be readily accessible for testing and maintenance and no device shall be submerged at any time.

The type of protection required is related to the degree of hazard that exists on the premises served. The type of protective device that may be required (listed in increasing level of protection) includes Double Check Valve (DC), Reduced Pressure Principle Backflow Prevention Device (RPPD), and an Air Gap Separation (AG). The water user may choose a higher level of protection than required by LPVCWD. The minimum types required, relative to various situations shall be as required by California Administrative Regulations, Title 17, or to the extent not covered thereby, as explained in California Administration Code, Title 17 (Public Health) Section 7604 "Type of Protection Required".

It shall be the duty of the water user on any premises on which backflow prevention devices are installed to have competent inspections made at least once a year, or more often in those instances where successive inspections indicate repeated failure.

All inspections and testing shall be performed by a certified tester. The devices shall be tested per California Code of Regulations, Title 17 (Public Health), Section 7605 which requires such devices to be immediately tested after they are installed, relocated or repaired and provides that such devices shall not be placed in service unless they are functioning as required.

LPVCWD will notify the applicant, owner, or customers when routine testing is needed and also supply them with the necessary forms that must be filled out each time a device is tested or repaired. The notice will include the date when the test must be completed, generally 30 days after the date of the notice. Copies of the completed forms will also be sent to the local health department. The applicant, owner, or customer must notify LPVCWD any time the device is repaired, replaced or relocated. A device will be repaired or replaced by, and at the expense of the water user, whenever it is found to be defective. Records of all such tests and repairs must be maintained by the water user. LPVCWD may request records regarding any backflow prevention device on the premises.

Where premises other than single-family residences contain dual or multiple water systems and piping, the exposed portions of pipelines shall be identified at sufficient intervals to distinguish clearly which water is safe for drinking purposes and which is not safe. All outlets intended for drinking purposes shall be plainly marked to indicate that fact.

In the event of contamination or pollution of the potable water system due to a cross-connection on the premises, the local health officer and LPVCWD shall be promptly advised by the person responsible for the water system so that appropriate measures may be taken to mitigate the contamination or pollution. When LPVCWD determines that water uses or conditions encountered by LPVCWD represent a clear and immediate hazard to LPVCWD's water supply that cannot be immediately abated, LPVCWD will institute the procedure for discontinuing water use. Conditions or water uses that create a basis for water service termination shall include, but are not limited to, the following:

1. Refusal to install a required backflow prevention device.
2. Refusal to test a backflow prevention device.
3. Refusal to repair or replace a faulty backflow prevention device.
4. Direct or indirect connection between LPVCWD's water system and a sewer.
5. Unprotected direct or indirect connection between LPVCWD's water system and a system or equipment containing contaminants, or an auxiliary water system.
6. A situation which presents an immediate health hazard to LPVCWD's water system, as determined by the health agency or LPVCWD.

3.10 REGULATORY AGENCIES

The following is a summary of the regulatory agencies that may be involved in the approval process or future inspections as the result of using recycled water within an approved property:

Regulatory Agency and Responsibility	Address	Phone #
La Puente Valley County Water District "Distributor" of Recycled Water	112 N 1 st Street La Puente, CA 91744	(626) 330-2126
Upper San Gabriel Municipal Water District "Supplier" of Recycled Water	602 Huntington Dr. Monrovia, CA 91016	(626) 443-2297
Sanitation Districts of Los Angeles County "Producer" of Recycled Water	1955 Workman Mill Road Whittier, CA 90601	(562) 908-4288
State Water Resources Control Board State agency responsible for protection of public health and regulation of drinking water	Division of Drinking Water 500 N. Central Ave., #500 Glendale, CA 91203	(818) 551-2004
Los Angeles County Dept. of Public Health County agency responsible for permitting the distribution of recycled water.	9320 Telstar Avenue El Monte, CA 91731	(213) 250-8055

3.11 SCHEDULING AND EMERGENCY CONNECTIONS

Recycled water must be used in compliance with these Rules and Regs. LPVCWD reserves the right to control and schedule the use of recycled water if, in the opinion of LPVCWD, scheduling is necessary for purposes including, but not limited to, the maintenance of an acceptable working pressure in the recycled water system and providing for reasonable safeguards in relation to public health.

Guidelines for such scheduling shall be as deemed appropriate by LPVCWD. LPVCWD reserves the right to supply potable water to LPVCWD's recycled water distribution system from time to time, as LPVCWD determines to be necessary or useful to augment the recycled water supply to such system.

If in the opinion of LPVCWD, an emergency exists whereby all or a portion of the recycled water system is not available, LPVCWD may approve a temporary connection to the potable water system. Before such temporary connection is made, the portion without recycled water shall be isolated by an air gap separation from the remainder of the recycled water system either at individual services or on the offsite system, as determined by LPVCWD and an approved backflow prevention device or devices of the type determined in accordance with this document, shall be installed on the potable water line or lines in accordance with these Rules and Regs and any and all applicable rules and regulations of the State and local health departments. Before the emergency connection or connections shall be removed, whether on-site or offsite, the customer shall notify LPVCWD's cross-connection department. This

emergency connection or connections shall be removed before connection is re-established to the remainder of the recycled water system.

3.12 MAINTENANCE

The applicant, owner, or customer is responsible for maintaining all on-site water and recycled water facilities that are under the ownership of parties other than LPVCWD.

It is the desire of LPVCWD to effect conservation of water resources whenever possible, such measures being consistent with legal responsibilities to utilize the water resources of the State of California and LPVCWD. Facilities for irrigation of new and existing parks, median strips, landscaped public areas or landscaped areas, lawns, or gardens surrounding condominiums, townhouses, apartments, and industrial parks shall be designed and installed in such a way as to conserve water.

Recycled water is considered a water resource by LPVCWD. Therefore, the same restrictions shall apply for all uses of recycled water as for potable water, where applicable. Rate and extent of application of water shall be controlled by the user so as to minimize run-off from the irrigated areas.

3.13 RECYCLED WATER NON-CONFORMANCE

For potential recycled water customers that elect not to comply with Section 3.2 of this document (“Requirements to Use Recycled Water”) and fail to provide reason(s) why recycled water cannot be used, all metered potable water use at the site that could otherwise be served with recycled water shall be billed at the applicable potable water rate plus a penalty to be established by LPVCWD’s Board of Directors until the site is converted or acceptable justification as to why the recycled water cannot be used is provided. No refunds will be provided unless a justification is accepted by LPVCWD. A customer may appeal any penalty imposed under this section by filing a written appeal to the LPVCWD’s General Manager within thirty (30) days of receiving notice of imposition of that penalty. The hearing on that appeal will take place at a regularly scheduled Board of Directors’ meeting occurring within sixty (60) days after receipt of the appeal.

If an end user that was previously accepting recycled water elects to suspend or terminate delivery of recycled water and use potable water for reasons other than those identified above, that end user may be subject to the provisions noted above.

SECTION 4

PERMITTING PROCESS

4.1 PERMITTING PROCESS OVERVIEW

The permitting process typically includes the following principal steps:

- Preliminary Determination Notice
- Notice of Objection (if necessary)
- Final Determination Notice
- Application for a Use Permit
- Approval of the Applicant's Plans
- Construction
- Final inspection, operational testing and cross-connection testing
- Final approval for recycled water service and complete Use Permit

Each of these principal steps is discussed in the following sections. A more detailed listing of each step of the process from application through final approval is shown in **Appendix C**, Checklist/Action Request Form for Obtaining Recycled Water Service.

4.2 PRELIMINARY DETERMINATION NOTICE

When recycled water is available for a prospective customer, LPVCWD will mail a Notice of Determination to the prospective customer. A sample Preliminary Determination Notice is presented in **Appendix A**. The Notice of Determination will include as a minimum: descriptive information about LPVCWD's recycled water system, indication of specific customer service(s) to which the Determination applies, customer responsibilities under the Rules and Regulations, current recycled water pricing information, descriptive information about on-site facilities requirement necessitated by initial use or conversion to recycled water, the opportunity for objection to the Determination, and a proposed date for the subsequent Final Determination Notice.

The date of the Preliminary Determination Notice shall begin a time period of thirty (30) consecutive calendar days during which the prospective customer may file an objection to the Preliminary Determination Notice or any information presented in it and may request reconsideration of the determination or modification of the proposed conditions or schedule for conversion. The objection must be in writing and specify the reasons for the objection. The preliminary determination shall become final if the prospective customer(s) does not file a timely objection within the 30-day period. Staff shall review the objection and will either confirm, modify, postpone or abandon the preliminary determination.

LPVCWD shall make final determination regarding recycled water service by written notice to the prospective customer(s). A sample Final Determination Notice is presented in

Appendix B. Such notice shall include as a minimum: reference to a predecessor preliminary determination notice, indication of specific customer service(s) to be affected by the determination, and the requirement of and timing for on-site facility construction. Upon receipt of final determination that a property shall be served with recycled water, the prospective customer(s), owner, or applicant shall obtain a Use Permit. The date of the final determination notice shall begin a 180 consecutive calendar day period of time during which the prospective customer(s) must obtain the Use Permit, complete on-site facility construction and become ready to receive recycled water service.

4.3 USE PERMIT

4.3.1 *Application For Recycled Water Service Process*

A prospective customer of recycled water must submit to LPVCWD an application for recycled water service. An application form is included in **Appendix D**. The application shall include a preliminary package and plan with the application form. The prospective customer of recycled water shall contact LPVCWD to obtain information regarding HGL and pressure zone, water service and meter sizes, locations, use site number, hydrologic subarea, and recycled water quality. The following items are to be included in an application package:

- Completed application form
- Required drawing(s)
- Required fees and deposits – due prior to approval

The applicant will agree to comply with the Rules and Regs by signing the application form.

LPVCWD shall review the material and respond within thirty (30) consecutive calendar days of receipt of a completed application package. LPVCWD may request additional information it deems necessary. LPVCWD shall determine if the property to be served is in a suitable area for recycled water use, and if the necessary quantity and quality of recycled water can be made available to the applicant.

4.3.2 *Use Permit Submittal Process*

Once the preliminary approval is granted by LPVCWD based on the contents of the application form, the owner or customer can proceed with the preparation of the plans and submittal of the Use Permit. The Use Permit form is included in **Appendix E**. Submitted along with the Use Permit form shall be: the completed irrigation plans for construction or retrofit; the work schedule for construction or conversion; and the required fees and deposits.

The following is a summary of the steps for obtaining the approved Use Permit:

- Applicant/Owner/Customer submits plans, irrigation plans, work schedule and required fees along with Use Permit;
- LPVCWD reviews and approves plans and finalizes Recycled Water Service Application;
- LPVCWD obtains LACDPH approval and SWRCB-DDW approval (if needed);

- Applicant/Owner/Customer has operator (installation contractor/maintenance contractor) complete Operation Certification portion of the User Permit and submits form to LPVCWD;
- On-site pre-construction meeting scheduled (applicant begins construction/retrofit of on-site facilities);
- LPVCWD issues recycled water Use Permit;
- On-site construction is completed (except recycled meter is not installed);
- Potable water backflow prevention devices installed and tested (if applicable prior to water service activation);
- Applicant submits redline construction set of record drawings to LPVCWD for review;
- Applicant has a final set of record drawings prepared and submits all required documents to LPVCWD;
- Applicant requests final inspection by LPVCWD;
- LPVCWD performs final inspection, operational testing, and cross-connection testing;
- Recycled water meter is installed; and
- LPVCWD grants final approval for recycled water service and completes Use Permit.

The checklist/action request form summarizing the steps for obtaining recycled water service is included in **Appendix C**.

LPVCWD will submit the following types of recycled water projects to the LACDPH and SWRCB-DDW (if needed) for review and approval prior to their construction:

1. New recycled water infrastructure projects that are co-located adjacent to drinking water facilities (i.e. reservoirs, main trunk lines, etc.);
2. Retrofit recycled water use sites; and
3. New recycled water use sites.

4.3.3 Use Permit Requirements and Force

The customer who has obtained a Use Permit must adhere to requirements prescribed by the Rules and Regs and to additional and future requirements prescribed by LPVCWD or governing agencies pertaining to recycled water service.

The Use Permit shall come into force after the on-site project has begun construction and is being inspected by the involved regulatory agencies. A copy of the current Use Permit must be on file at the customer's office and available for review at all times.

4.3.4 Use Permit Life

The Use Permit will stay in effect indefinitely, but may be temporarily or permanently revoked if:

- A change of customer occurs and the customer has not notified LPVCWD via the Recycled Water Service Application form **Appendix D** of the impending change thirty (30) consecutive calendar days prior to change;
- A change of operator occurs and the customer has not notified LPVCWD via the Recycled Water Use Permit form, **Appendix E** of the pending change thirty (30) consecutive calendar days prior to the change;
- A change of recycled water use occurs inconsistent with the Use Permit; and
- A violation occurs and results in termination of service.

A new completed Recycled Water Service Application form, refer to **Appendix D**, must be submitted to LPVCWD to reinstate a Use Permit that has been cancelled.

4.4 SUBMITTALS AND RECORDS

4.4.1 Facility Layout Documents

Facility layout drawings shall be submitted as specified within Section 5 of this document (Technical Requirements) by the customer to LPVCWD and approved by LPVCWD prior to commencing any installation of facilities. The drawings shall be signed by the design consultant and shall include the construction of the use area, and the on-site irrigation system, as a minimum. A materials list shall also be submitted to LPVCWD and it shall include the following:

On-site Distribution Facilities - The diameter, approximate length, and construction material of all on-site distribution recycled water mains (pressurized).

On-site Storage Facilities – If applicable, the estimated number and locations of fixed storage tanks or ponds and the approximate volume of each.

Recycled Water Volume – The maximum and average amounts in gpm that will be drawn from LPVCWD’s recycled water distribution system, and the hours of operation.

4.4.2 On-site Irrigation Systems Design Documents

On-site irrigation systems design criteria and plans shall be submitted as specified within Section 5 of this document (Technical Requirements) by the customer to LPVCWD and approved by LPVCWD prior to commencing any installation of facilities. The plans shall include the meter criteria and LPVCWD’s Standard Notes as a minimum.

4.4.3 Final Record Drawings and Documents

Final Record drawings shall be submitted to and approved by LPVCWD before a request for regular service start-up is made. The final record drawings shall include the following:

- “As-Built” Changes - All changes in the work constituting departures from the original design drawings, including changes in both pressure and non-pressure lines, number and location of spray heads, bubbler or drip systems, buildings or hardscape, shall be accurately recorded on one set of drawings. At the end of each working day, it shall be mandatory that the contractor record all work accomplished for that day on the set of drawings in red ink. The final set of record drawings shall be professionally drafted, to the satisfaction of LPVCWD, in electronic format, both in CAD and PDF files, for future processing and reproduction. Throughout the construction process, the red line copy shall be available to LPVCWD upon request.
- Record Drawings – For the purpose of reference, record drawings shall be available at all times.

4.4.4 Temporary Service Connection

Prior to being placed into service, a temporary service connection using potable water (protected by a reduced pressure backflow device) may be used to supply water to on-site facilities to permit the testing of all or a portion of the facilities during installation. The temporary service connection is valid for 180 consecutive calendar days. The inspector shall be notified at least 48 hours in advance of such intended use of potable water.

No recycled or potable water use from offsite to on-site facilities is allowed for sites being designed for potable or recycled water until all water meters, meter boxes, and backflow prevention assemblies have been installed, tested, and inspected. On-site cross connection testing must be completed to the satisfaction of LPVCWD, prior to any meter releases.

Contact LPVCWD to energize the water service angle stop to facilitate the testing of the backflow assemblies for testing purposes only. Backflow assembly test results are to be submitted to LPVCWD. Special considerations can only be made by Board of Directors,

4.5 REPORTING

Certain reporting or notification between the parties involved with the use of recycled water may be conducted in person or by email. LPVCWD must report any cross connection incident to the SWRCB-DDW and the LACDPH within 24 hours of the incident.

The customer must report any violation of the Rules and Regs and/or noncompliance that may endanger public health or the environment. Any such information shall be provided orally to LPVCWD immediately after the customer becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the customer becomes aware of the circumstances.

The written submission shall contain a description of the noncompliance and its cause; photographs documenting the non-compliance; the period of noncompliance, including exact

dates and times; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

LPVCWD may waive the written report on a case-by-case basis if the oral report has been received within twenty-four (24) hours. The following occurrences(s) must be reported to LPVCWD immediately:

- Any situation that may endanger the public's health or the environment;
- Discovery of a cross connection of a recycled water system with a potable water system;
- Unplanned or uncontrolled discharge of recycled water resulting from water line breaks, malfunctioning control system, or any other circumstances;
- Discharge of recycled water outside of the approved use area due to on-site line breaks, runoff, direct spray, overspray, or outside the regular hours of operation for any reason; and
- Discharge of recycled water at a construction site in an unapproved manner or in an unapproved area.

4.6 UPGRADES / ALTERATIONS / REPAIRS

Upgrades or alterations to recycled water irrigation systems, non-potable irrigation systems, and potable water systems on recycled water use sites must be approved and inspected by LPVCWD. Prior to commencement of work, record drawings must be revised and submitted to LPVCWD for approval. Any upgrades or alterations made to a recycled water irrigation system or potable water system on recycled water use sites that are not inspected or follow stated notification procedures, places the owner and the irrigation system in violation of the Rules and Regs. Any upgrade or alterations performed and backfilled without LPVCWD inspection shall be exposed at the owner's expense for inspection and compliance.

Emergency and regular repairs to irrigation systems and potable water systems on recycled water use sites, other than the typical sprinkler head repair, must be completed to the satisfaction of and inspected by LPVCWD. LPVCWD must be notified immediately when a repair is made. Any repairs performed and backfilled without LPVCWD inspection shall be immediately exposed at the owner's expense for inspection and compliance. Any on-site repairs that are not immediately inspected or follow stated notification procedures, places the owner and the irrigation system in violation of the Rules and Regs.

SECTION 5

TECHNICAL REQUIREMENTS

5.1 GENERAL

All offsite and on-site recycled water facilities shall be designed and constructed according to the requirements, conditions, and specifications of these Rules and Regs. The recycled water system, including both offsite and on-site facilities, shall be separate and independent of any potable water system. Any required backflow prevention devices on potable water services and flow or pressure control devices shall be on the customer's side of the meter and provided by the applicant, owner, or customer at their expense.

LPVCWD will assume responsibility for providing water and recycled water service to the point of connection of such development. All easements shall be in a form acceptable to LPVCWD and not subject to outstanding obligations to relocate such facilities or any deeds of trust, except in instances where approved in writing by LPVCWD.

Modification or relocation of the meter or other facility which results in nonconformance with the applicable provisions of these Rules and Regs is prohibited and shall be corrected at the expense of the applicant, owner, or customer. Upon failure or refusal of the applicant, owner, or customer to make such correction, LPVCWD may, after providing reasonable notice to the applicant, owner or customer turn off the recycled water meter until correction has been completed.

Any on-site recycled water facilities shall be provided by the applicant, owner, or customer at their expense. The applicant, owner, or customer shall retain title to all such on-site facilities.

5.2 ON-SITE IRRIGATION SYSTEMS

5.2.1 *Design Responsibilities*

The design of an on-site irrigation system that will use recycled water, including the preparation of plans and construction specifications, shall be under the responsibility of a design consultant. On-site recycled water facilities, in addition to conforming to these Rules and Regs, shall conform to local governing codes, rules and regulations. The City of La Puente and portions of the City of Industry and unincorporated areas of Los Angeles County shall have authority over materials, equipment, design, and construction methods used for on-site recycled water facilities within their jurisdiction.

5.2.2 *Provisions for Recycled Water*

In those areas where recycled water is not immediately available for use when the area is ready for construction, an approved backflow prevention assembly shall be required for any potable water use. This assembly shall be provided, installed, and tested at least annually by the customer. All maintenance of the on-site backflow prevention assembly shall be the responsibility of the customer. In those cases where LPVCWD uses a master backflow prevention assembly at the intertie between the recycled water distribution system and the

potable water system, LPVCWD may waive the requirement for the customer to install an on-site approved backflow prevention assembly.

Only LPVCWD, or the customer in accordance with LPVCWD's requirements and under the approval and inspection of LPVCWD, shall remove said backflow prevention assembly and make the connection to the recycled water distribution system when recycled water becomes available. At such time, if LPVCWD removed the assembly, LPVCWD shall return the assembly to the customer. LPVCWD shall determine all points of connection to LPVCWD's offsite facilities.

Backflow prevention assemblies are not required on recycled water irrigation systems after service has begun with recycled water. However, backflow prevention assemblies may be required on irrigation systems using recycled water if chemical injections system remain or are installed on the irrigation system. Backflow prevention assemblies required by LPVCWD on recycled water systems shall be clearly identified by installing purple identification tags and/or installed in protective enclosures. LPVCWD shall test these recycled water backflow prevention assemblies initially and the customer annually thereafter with dedicated testing equipment, used only for recycled water backflow prevention assemblies.

LPVCWD shall make notification of all action taken with backflow prevention assemblies to LACDPH and/or SWRCB DDW.

5.2.3 Service Line

LPVCWD reserves the right to specify the amount, size, and location and/or type of all offsite facilities. The recycled water service lines shall be extended to a location in compliance with LPVCWD's standard drawings or a curb line of the customer's property abutting upon a public street, highway, road or utility easement in which recycled water mains are installed.

5.2.4 Service Pressure

The pressure zone/hydraulic grade line shall be as provided by LPVCWD. The design consultant must prepare and submit a hydraulic worksheet indicating hydraulic constraints. When offsite system pressures are inadequate or exceed demands, the costs and installation of additional booster pumps and/or pressure regulators shall be the responsibility of the owner.

5.2.5 System Layout

The irrigation system shall be designed based on peak-application rate requirements to prevent discharge onto areas that are not approved for use. Adjustable arc, adjustable radius sprinklers with anti-drain/check valves shall be used adjacent to roadways, boundary lines, and hardscape to confine the discharge from the irrigation system to the design area. Recycled water leaving the planting areas, whether by direct overspray, ponding, runoff, or windblown spray, shall be minimized. A drainage device under control of the owner shall be installed at the toe of slope draining to single family residential lots. Drainage devices must stand-alone; slope drainage devices shall not be tied into any other drainage systems.

The on-site irrigation system shall be required to automatically shut off in the event of a line break. The customer must utilize all available equipment to prevent unauthorized discharge of recycled water. See Section 5.2.8 of this document (“System Control Devices”).

The irrigation system design shall avoid spray patterns that include obstructions that tend to concentrate recycled water to produce ponding and/or runoff, such as direct or indirect spraying against structures or objects.

No common trenching with other utilities of any kind is permitted.

LPVCWD reserves the right to limit the area of land under one ownership or homeowner's association to be supplied by one recycled water service connection and corresponding meter. A recycled water service connection and its corresponding meter shall not be used to supply adjoining property of a different owner, without the approval in writing from LPVCWD stating conditions and restrictions; such as easements or MOU (memorandum of understanding) that may be required in LPVCWD’s sole discretion.

Irrigation systems where landscaping around homes and in common areas served with one meter and owned by the same customer, e.g., a homeowners association, may be allowed to cross roads, streets, or other public right-of-ways within the customer's property.

When a property provided with a recycled water connection and corresponding meter is subdivided, such connection and meter shall be considered as serving the lot or parcel of land on which the meter is located. Additional recycled water mains and/or recycled water service lines shall be required for all subdivided areas in accordance with these Regulations.

For properties of the same customer, irrigation systems shall be allowed to cross roads, streets, or other public rights-of-way to serve medians and slopes along streets. For properties under the ownership and control of other parties, a recorded easement shall be mandatory. A copy shall be issued to LPVCWD.

All recycled water used on any property must pass through the meter. Customers shall be held responsible and charged for all recycled water passing through their respective water meters.

5.2.6 On-site Separation Requirements

Horizontal Separation: The pressurized recycled water piping shall maintain a minimum of a four (4) foot horizontal separation at all times from all potable water piping. If a four (4) foot horizontal separation is not possible, special construction requirements shall be considered. Common trench construction is prohibited.

Vertical Separation: Vertical separation of new construction shall be located from the ground surface in order of descending quality. Potable water must be located above recycled water. Minimum vertical separation must be one (1) foot between the top and bottom surfaces of the pipes.

5.2.7 System Control Devices

Every newly constructed recycled water service line shall be equipped with an angle stop on the inlet side of the meter and ball valve on the discharge side of the meter, located within a LPVCWD maintained meter box. The angle stop and ball valve are to be used only by LPVCWD personnel to control the recycled water supply through the water service line. If the angle stop, ball valve, meter box, meter lid, or touch reader equipment is damaged by the customer or through the customer's use of recycled water to an extent requiring replacement, then the customer shall bear full financial responsibility for repair and replacement.

5.2.8 Identification Requirements

Any sites that contain multiple water systems within the site (i.e.: potable water for domestic purposes; potable water for fire systems; non-potable water for irrigation purposes; and recycled water for irrigation purposes) will require identification of the on-site facilities to clearly distinguish one from another. Colors and materials used for the identification of all water/recycled water piping, appurtenances, equipment, storage facilities, and approved used areas shall be in accordance with these Rules and Regulations and the SWRCB DDW Purple Book.

Recycled Water Signs: All sites using recycled water shall have a minimum of two recycled water caution signs installed at locations agreeable to the site owner, LPVCWD and SWRCB DDW. The quantity of signs and their location are determined by the quantity and location of the general public's access to the recycled water use area. The final quantity and location must be determined and approved by LPVCWD and SWRCB DDW. Signage size and wording shall be in accordance with the specifications of these Rules and Regulations and shall be approved by LPVCWD and the site owner. Signs shall be a minimum of 4" by 8" in size, and at a minimum, include the wording "**Recycled Water – Do Not Drink**" and display the international symbol shown on Figure 30610-A in Title 22 of the California Code of Regulations and should be bilingual with Spanish below the international symbol. Recycled water signs may vary in size, color and wording but any variation to the above need to be approved by LPVCWD and SWRCB DDW.

Identification of On-site Facilities: On sites with recycled water or other water systems, all facilities will need to be identified in order to clearly distinguish one from another.

Therefore, the following, as a minimum, will be required:

- The exposed portion of recycled water pipelines, valves, and other appurtenances shall be identified by installing purple warning tags to distinguish clearly that it is a recycled water facility;
- All new unexposed recycled pipes shall be identified as well. PVC pipe shall be purple and metallic pipe shall be installed with purple warning tape;
- All recycled water outlets shall be posted with bilingual precautionary purple warning tags or labels with the wording "**Warning – Recycled Water – Do Not Drink**", and "**Aviso Agua Impura – No Tomar**";
- Main shut-off valves shall be clearly identified to distinguish between recycled water,

potable water and non-potable water systems.

- The exposed portion of potable water pipelines, valves, and other appurtenances shall be identified by installing blue identification tags to distinguish clearly that it is a potable water facility;
- All new unexposed potable water pipes shall be identified as well. PVC pipe shall be white with blue identification (warning) tape and metallic pipe shall be installed with blue identification (warning) tape;
- The exposed portion of non-potable water pipelines, valves, and other appurtenances shall be identified by installing green warning tags to distinguish clearly that it is a non-potable water facility; and
- All new unexposed non-potable water pipes shall be identified as well. PVC pipe and metallic pipe shall be installed with green warning tape.

Recycled Water On-site Identification Requirements:

- All new buried on-site constant pressure recycled water irrigation piping shall be marked as follows: PVC Pipe must be purple-colored with continuous wording **“Caution – Recycled Water – Do Not Drink”** printed on opposite sides of the pipe. The use of continuous recycled water tape will not be acceptable.
- All new recycled water piping above ground or in vaults, including adapters and fittings, shall be identified with purple tags.
- All new and retrofitted recycled water appurtenances including the irrigation valve boxes (gate valves, quick coupler valves, manual control valves or electrical control valves) shall have a purple warning tag affixed inside them. Tags shall be weatherproof plastic, 3” by 4”, with purple background and black lettering stating **“Warning – Recycled Water – Do No Drink”**, and **“Aviso Agua - Impura No Tomar”**, on one side and the “Do Not Drink” logo on the other side. One tag will be attached to each device with a nylon tie wrap.
- All new valve boxes (gate valves, manual control valves or electrical control valves) on the recycled water irrigation system shall be purple (Pantone™ 512) and have the words **“Recycled Water”** in white letters on top.
- All retrofitted valve boxes (gate valves, manual control valves or electrical control valves) on the recycled water irrigation system shall be retrofitted with a purple valve box nameplate indicating “Recycled Water” to be riveted onto of the lid.
- Purple background warning labels stating **“Attention – Controller Unit for Recycled Water”**, and **“Atencion – Unidad Controladora Del Agua Recuperada”**, will need to be attached to the cover of all irrigation controller units.
- All retrofitted recycled water appurtenances including the irrigation valve boxes (gate valves, quick coupler valves, manual control valves or electrical control valves) shall have a purple warning tag affixed inside them. Tags shall be weatherproof plastic, 3” by 4”, with purple background and black lettering stating **“Warning – Recycled Water – Do No Drink”**, and **“Aviso Agua - Impura No Tomar”**, on one side and the “Do Not Drink” logo on the other side. One tag will be attached to each device with a

nylon tie wrap.

Potable Water On-site Identification Requirements:

All new buried on-site potable water piping shall be identified as potable water using a blue color code differentiating them from recycled water piping. This identification shall be done by using blue PVC pipe or installing blue identification (warning) tape as described below:

- All PVC domestic water piping shall be blue colored PVC pipe or shall be white with blue stenciling appearing on both sides of the pipe with the marking “Domestic Water” in 5/8-inch letters repeated every twelve (12) inches. Blue identification (warning) tape identifying the PVC pipe as domestic water line and stating “**Caution – Domestic Water**” may be used as an alternative to the blue or stenciled PVC pipe. The tape shall be attached to the pipe with plastic tape banded around the warning tape and pipe every five (5) feet on center.
- All new constant pressure copper or ductile iron piping carrying potable water shall be identified with blue identification (warning) tape. The identification (warning) tape shall be blue in color with the words “**Potable Water**” imprinted in minimum of one-inch high letters, black or white in color. Imprinting shall be continuous and permanent. Identification (warning) tape shall be a minimum of three (3) inches in width and shall run continuously for the entire length of all constant pressure piping. The tape shall be attached to the top of the pipe with plastic tape banded around the identification (warning) tape and the pipe every five (5) feet on center.
- All new potable water piping above ground or in vaults, including adapters and fittings, shall be identified with a blue tag.
- All potable water appurtenances including the potable water valves shall have a blue identification tag affixed to them. All potable water valves boxes (main valves or shut-off valves) shall have one tag placed on the valve within the valve box. Tags shall be weatherproof plastic, 3” by 4”, with blue background and white or black lettering stating “**Potable Water**” on one side and “**Agua Para Tomar**” on the other side. One tag will be attached to each device with a nylon tie wrap.

Non-Potable Water On-site Identification Requirements:

All new buried on-site non-potable water piping shall be identified as non-potable water using a green color code differentiating them from recycled water and potable water piping. This identification shall be done by installing green warning tape as described below:

- All new constant pressure PVC or ductile iron piping carrying non-potable water shall be identified with warning tape. The warning tape shall be green in color with the words “**Non-Potable Water**” imprinted in minimum of one-inch high letters, black or white in color. Imprinting shall be continuous and permanent. Warning tape shall be a minimum of three (3) inches in width and shall run continuously for the entire length of all constant pressure piping. The tape shall be attached to the top of the pipe with plastic tape banded around the warning tape and the pipe every five (5) feet on center.
- Warning tape shall be a minimum of three (3) inches in width and shall run continuously for the entire length of all constant pressure piping. The tape shall be

attached to the top of the pipe with plastic tape banded around the warning tape and the pipe every five (5) feet on center.

- All non-potable water appurtenances, including the non-potable water valves, shall have a yellow warning tag affixed to them. All non-potable water valves boxes (gate valves, manual control valves or electrical control valves) shall have one tag placed on the valve within the valve box. Tags shall be weatherproof plastic, 3” by 4”, with yellow background and white or black lettering stating “***Non-Potable Water***” on one side and “***Agua Impura No Tomar***” on the other side. One tag will be attached to each device with a nylon tie wrap.
- All non-potable water irrigation quick coupling valves shall have a tag affixed to them. Tags shall be weatherproof plastic, 3” by 4”, with yellow background and white or black lettering stating “***Non-Potable Water***” on one side and “***Agua Impura No Tomar***” on the other side. One tag will be attached to each device with a nylon tie wrap.

5.2.9 Plan Requirements

Facility layout drawings shall be signed by the design consultant and shall include the construction of the use area, and the on-site irrigation system, as a minimum. This drawing shall indicate the exact boundaries of the site of the proposed recycled water use at a scale that includes the site and the nearest paved surface street containing a recycled water distribution main. These drawings shall be submitted by the customer to LPVCWD and approved by LPVCWD prior to commencing any installation of facilities.

Plans shall include a vicinity index map, indexed site map for each sheet and shall include major street crossings, street names, and point of connection. The title sheet shall show the legal description of the property. Plans shall include the irrigation system design, notes, appurtenance details, and legends without separate attachments. The size of the plans shall be consistent for the project, and for new construction, shall be full size (24” by 36” or 22” by 34”). The plans shall be signed by the design consultant and shall be submitted to LPVCWD for review and approval. LPVCWD’s signature block shall be included on the Title Sheet of the plans.

The following shall be shown on the plans, as a minimum:

- Potable and recycled water mainline and valve locations within the surrounding streets;
- All potable, fire, non-potable and recycled water lines;
- Specific recycled water use areas;
- Specific non-potable water use areas;
- Specifically state on the plans if there is no potable water on the site;
- Location of all wells;
- Location of all streams and water bodies;
- Location of all sewer facilities;

- Equipment legends;
- Locations and descriptions of all backflow prevention devices;
- Location and size of all service connections and meters, including fire protection;
- Show all fire hydrants and all fire protection facilities;
- Show all buildings;
- Show hardscape (including walls, fencing, drainage devices);
- Show all play areas and equipment, ball field layouts and courts;
- Designate all exterior eating areas, including tables, benches and barbeques;
- Location of all water features; and
- Location of drinking fountains and restrooms.

The following specific call-outs shall be shown on the irrigation plans:

- Points of connections;
- Routing of irrigation supply lines and all related appurtenances;
- Gate valves;
- Sprinkler control valves;
- Quick coupling valves;
- Routing of control wires;
- Irrigation controllers;
- Remote control valves;
- Irrigation pumps, piping and appurtenances; and
- All irrigation-related appurtenances.

5.2.10 Meter and Irrigation Criteria

The following irrigation meter criteria information shall be included in each set of plans adjacent to each recycled water meter:

- Tract and Lot Numbers or Parcel Map Number;
- User Site Number (Customer address);
- Meter Size;
- Elevation (highest to the lowest elevation of the site to be irrigated);
- Zone/HGL of the property (to be provided by LPVCWD);
- Point of Connection Static Pressure (to be provided by LPVCWD);
- Required Dynamic Pressure On-site;

- Average Application Rate (gpm/acre);
- Maximum Application Rate (gpm/acre);
- Area Served (acres irrigated); and
- Annual Irrigation Water Use (acre feet/year).

A legend shall be included on the plans showing the irrigation criteria including the pertinent data for the materials used in the irrigation system. The legend shall include a pipe schedule listing pipe sizes, type of materials of construction, the quantity of quick coupling valves, and all related appurtenances including their size, model number and description. All controller timing charts shall show maximum hours of operation per day.

5.2.11 Standard Recycled Water Notes

As a minimum, the below standard notes shall be listed on the plans.

1. The design, installation, identification and use of all on-site potable water systems, fire protection systems, potable water used for irrigation systems (non-potable irrigation), and recycled water irrigation systems shall conform to LPVCWD’s Rules and Regs, and all State and County guidelines, articles, and codes regarding the design, installation, identification, use and maintenance of on-site systems and protection of the public’s health. The Contractor shall have a copy of these plans and LPVCWD’s Standard Specifications on the job at all times.
2. No construction shall take place without all required approvals and signatures on the plans.
3. LPVCWD shall be furnished with two (2) copies of the approved construction plans prior to the starting of construction. A mandatory pre-construction meeting shall be held on the jobsite a minimum of 24 hours prior to the start of construction. No work shall take place without a pre-construction meeting on-site.
4. LPVCWD’s cross connection specialist shall be notified a minimum of two working days (48 hours) prior to beginning of construction, or any inspection.
5. All potable and recycled water meters, backflow assemblies, and related appurtenances shall be installed, inspected, and tested per LPVCWD’s Specifications and/or Rules and Regs before any recycled water use can take place.
6. All typical recycled water services shall be constructed per LPVCWD’s Standard Specifications and Plans. Downstream of the recycled water meter shall be a customer service valve. The customer service valve shall be “ball valve” type and provided with a turn handle.
7. On-site Separation Requirements, as specified within LPVCWD’s Rules and Regulations, shall be maintained at all times. The following is a brief summary:

Horizontal Separation: The pressurized recycled water piping shall maintain a

minimum of a four (4) foot horizontal separation at all times from all potable water piping. If a four (4) foot horizontal separation is not possible, special construction requirements shall be considered. Common trench construction is prohibited.

Vertical Separation: Vertical separation of new construction shall be located from the ground surface in order of descending quality. Potable water shall be above recycled water. Minimum vertical separation shall be one (1) foot between the top and bottom surfaces of the pipes. If a one-foot vertical separation is not possible, special construction requirements shall be considered.

8. Quick coupling valves on the non-potable water system shall be of the same type and manufacturer and shall not be interchangeable with quick couplers on the recycled water system. The quick couplers must have yellow warning tags attached and the covers labeled (and/or be yellow in color).
9. Quick coupling valves on the recycled water system shall be brass ACME thread recycled water style quick-coupling valves and shall not be interchangeable with quick couplers on the non-potable water system. The quick couplers will need to have recycled water type lid (purple). The quick couplers must have purple warning tags.
10. All hose bibs on the potable water system shall be installed with a potable water identification tag and shall have an atmospheric vacuum breaker installed. No hose bibs will be allowed on the recycled water system except at cemetery customers.
11. Quick coupling valves on the recycled water irrigation mainline may be required to be removed at the end of the maintenance period, if requested by LPVCWD.
12. All drinking fountains will need to be protected from contact with recycled water, whether by windblown spray or by direct application through irrigation. Some may be located to meet this requirement, others will need to be constructed with protective structure as required by LACDPH and/or SWRCB DDW.
13. Adjust all sprinkler, impact and rotor heads and drip systems to minimize direct overspray, windblown spray, ponding and runoff onto non-irrigated areas.
14. The installation of internal, external, or in-line anti-drain valves are mandatory to prevent low-head drainage immediately after the remote control valve has closed.
15. Any deviations from the signed and approved set of plans must be approved in writing prior to installation by the design consultant and LPVCWD. Any revision must be submitted to the design consultant and LPVCWD for approval. Failure to comply will result in a "STOP WORK NOTICE".
16. Final coverage tests must be performed and passed before a final release will be issued. Direct overspray, windblown spray, ponding, and runoff onto non-irrigated areas are to be minimized.
17. Cross-connection tests shall be performed on all water systems, including existing

and future recycled water irrigation systems, and all potable and non-potable water systems, as determined by LPVCWD prior to the use of recycled water. All cross-connection tests must be performed and passed before a final release will be issued.

18. The entire irrigation system and its appurtenances, as well as all on-site facilities and appurtenances must be inspected and reviewed by LPVCWD. Final inspections/site reviews must be performed and passed by LPVCWD before a final release will be issued.
19. Unless directed otherwise by LPVCWD, recycled water system regular hours of operation are as follows:
 - Turf areas and center street medians: between 10:00 p.m. and 6:00 a.m.;
 - Slopes and ground cover/shrub areas: any hour (if no potential public contact);
 - Golf courses: between 9:00 p.m. and 5:00 a.m.
 - Golf courses: fill impoundments between 4:00 a.m. and 6:00 p.m.

The consideration for potential public contact with recycled water shall take precedence over all recycled watering schedules. All irrigation system run times shall be adjusted to minimize contact with recycled water on an individual lateral system basis. LPVCWD may require specific run times and durations where there is a history of public contact.

20. The following information must be submitted to LPVCWD before a final release will be issued:
 - a. One complete set of LPVCWD approved electronic (CAD and PDF) record plans. (NOTE: All record drawing information must be reviewed and approved in writing by the design consultant and LPVCWD before producing the record drawings, etc., for submittal to LPVCWD.) Final record plans shall be professionally drafted as determined by LPVCWD.
 - b. One complete set of LPVCWD approved record blue-line or bond plans. One complete set shall include cover sheet, irrigation sheets, and all irrigation details and note sheets.
 - c. One 60# bond paper 11" x 17" color control charts, one set for each point of connection. One 60# bond paper 11" x 17" color control charts, hermetically sealed in a 6-mil thick laminated pouch, one set for each point of connection.
 - d. Completed LPVCWD backflow investigation and test reports for all backflow prevention assemblies on site. Submit to LPVCWD.
 - e. Certificates of substantial compliance, calibration, acceptance and/or proper installation/ operation of the irrigation system and appurtenances as deemed necessary by LPVCWD.
 - f. Completed LPVCWD recycled water Use Permit for each recycled water point of connection.

21. Failure to comply with any of the prior provisions and/or any other of the Rules and Regs will place the system in violation of the Rules and Regulations and will result in a stop of work notice and/or termination of recycled water service until appropriate corrective steps have been taken.

The following Recycled Water General Notes for Site Owner Maintenance Staff shall be included on the plans:

1. It shall be the responsibility of the site owner's maintenance staff to ensure that all operations personnel are trained in and familiarized with the use of recycled water, and are familiar with LPVCWD's Rules and Regs for Recycled Water Service. A copy of these Rules and Regulations shall be kept on site at all times.
2. The operation and surveillance of the on-site recycled water system shall be under the management of the On-site Supervisor designated by the site owner.
3. Recycled water service area shall be restricted to those areas explicitly approved by the State and LACDPH and as shown on these plans.
4. All recycled water irrigation sprinkler heads shall be adjusted by the site owner's maintenance staff to eliminate or to control to the greatest extent possible overspray onto non-landscaped areas including but not limited to buildings, sidewalks, parking lots, asphalt areas and roads.
5. Conditions that directly or indirectly cause a run-off of recycled water outside of the approved recycled water use area, or cause ponding of recycled water or overspray to pass outside of the approved use area must be eliminated.
6. Cross-connections between the recycled water system and the potable or non-potable water systems are strictly prohibited.
7. Hose bibs on the recycled water system are strictly prohibited unless at an industrial or cemetery customer location.
8. The operation of the recycled water system shall be during periods of minimal use of the recycled water service area by the general public (typically 10:00 p.m. to 6:00 a.m.).
9. The site owner's maintenance staff must obtain prior approval from LPVCWD's cross-connection specialist for all proposed changes and modifications to any on-site facilities, including modifying the recycled water service area.

5.3 ON-SITE RECYCLED WATER RETROFIT PROCEDURES

LPVCWD may require an existing customer to retrofit an existing on-site irrigation water service facility to accommodate recycled water service. This determination will require a comprehensive investigation to be performed by or for LPVCWD.

The facilities to be converted to recycled water shall be investigated on a case-by-case basis, in detail, including review of any record drawings, preparation of necessary field work, preliminary cross-connection and coverage testing, and determinations by LPVCWD of measures necessary to bring the facility into full compliance with these Rules and Regulations for Recycled Water Service. After LPVCWD approval, SWRCB DDW shall also review and approve all conversions in accordance with these Rules and Regulations and the Use Permit application process. No existing on-site potable water facilities shall be connected to or be incorporated into the recycled water system without LPVCWD and other regulatory agencies testing and approval.

As a minimum, the retrofit of a potable water system to a recycled water system shall require:

- Identification of all existing on-site above grade pressure pipelines, valves, and appurtenances in accordance with requirements of these Rules and Regs for new construction of recycled water systems;
- Installation of an approved air gap or backflow prevention assembly devices in accordance with requirements of these Rules and Regs and subject to cross-connection control tests required in order to prevent cross connection or contamination of a potable water system at any location where it is proposed to retain a connection to a potable system;
- Performance of a two way cross connection test to determine existence of cross connection with all on-site potable and recycled water systems;
- Submittal of as-built record drawings package; and
- Completion and submittal of Recycled Water Services Application and Use Permit.

5.3.1 *Recycled Water Retrofit Procedures*

The following are retrofit procedure requirements that shall be adhered to by the owner. LPVCWD will provide coordination and inspection assistance in retrofitting these irrigation systems. (All onsite retrofit costs/expenses shall be the owner's sole responsibility.)

1. Submit to LPVCWD a completed application for recycled water service.
2. Submit to LPVCWD one set of irrigation plans and/or a record drawing of the site showing irrigation system, and all potable water systems on-site. See Section 5.3.3 of this document (“Plan Requirements”) for specific requirements.
3. Preliminary site inspections are intended to inform the owner of the site identification, backflow prevention, on-site separation requirements, and other issues regarding the retrofit of the use site to recycled water.
4. Preliminary coverage tests are intended to assure compliance with LPVCWD Rules and Regs regarding direct spray, windblown spray, overspray, ponding, and runoff. Irrigation sprinkler heads may be required to be replaced and/or plant materials trimmed or removed to comply with the Rules and Regs.
5. Preliminary cross-connection tests are required to assure that no cross connections

- exist between the irrigation systems and any potable water sources. See Section 6.8 of this document (“Cross-Connection Test”) for Cross-Connection Testing Procedures. Any cross connections found between potable water systems and future recycled water systems must be eliminated prior to retrofit.
6. A recycled water point of connection and irrigation system(s) shall serve only one property as recorded with the County of Los Angeles.
 7. Remove existing quick-coupling valves per LPVCWD regulations or change out to brass ACME thread recycled water style quick-coupling valves. The locking cover shall be purple rubber or vinyl with the following information stamped or molded into the cover:
 - **“Recycled Water”** in English and Spanish;
 - **“Do Not Drink”** in English and Spanish; and
 - The international “Do No Drink” symbol (glass of water in a circle with a slash through it).
 8. Remove all existing hose bibs whose water source is supplied by the irrigation system to be retrofitted. Hose bibs are prohibited on recycled water systems unless at an industrial or cemetery customer location.
 9. Attach purple recycled water warning tags in English and Spanish to all recycled water appurtenances (remote control valves, gate valves, wye strainers, etc).
 10. Identify all above ground pressure and non-pressure recycled water piping as recycled water by attaching purple recycled water identification labels to the piping at five foot intervals.
 11. Identify all sprinkler, bubbler, or drip system risers with purple recycled water identification labels in English and Spanish.
 12. Install check valves below any sprinkler head or bubbler head where run-off occurs after the control valve has been shut down. Note: The Owner has the option to replace affected sprinkler heads with recycled water style heads that have built in check valves and purple recycled water identification caps. Minimize runoff after the control valve has been shutdown.
 13. All on site pressurized recycled water mainlines are required to maintain minimum horizontal and vertical separations from all pressurized potable water piping, and sanitary sewer systems as specified in these Rules and Regs.
 14. To locate irrigation and other potable water lines, wire tracing, electronic testing/tracing or other methods shall be required. Suspect piping shall be required to be exposed for verification of separation requirements.
 15. All exposed potable and recycled water piping shall have appropriate identification/warning tapes attached to them, to the satisfaction of LPVCWD.

16. Sleeving of mainlines may be used under certain circumstances to address the separation issues in areas near fire hydrants, backflow assemblies, and potable water lines and services as directed and approved by LPVCWD.
17. Common trenching is prohibited. The relocation of pressurized potable water lines may be required to meet LPVCWD separation requirements.
18. Pressurized potable water piping shall be required to be relocated if minimum separation requirements cannot be met. In some cases, the pressurized recycled water piping may be relocated in place of the potable water piping as determined and approved by LPVCWD.
19. All potable water service points of connection shall have backflow prevention assemblies as determined by LPVCWD. All backflow assemblies must be tested before recycled water is used on site. (Submit the completed test reports to the recycled water cross connection specialist.)

LPVCWD minimum requirements for public water supply backflow protection are as follows: Approved reduced pressure principal assemblies for all potable water points of connection and double-check detector check assemblies for all potable water fire protection points of connection. Other backflow prevention devices may be required, to protect public health, as determined by LPVCWD.

20. Mark or identify all valve box lids per LPVCWD's Rules and Regs to identify them as recycled water, potable water, non-potable or "potable water used for irrigation" and type of appurtenance enclosed. Other valve boxes or enclosures shall be identified as "Recycled Water", "Potable Water", "Non-Potable", or "Potable Water Used for Irrigation," and as directed by LPVCWD. Bolt down all valve box covers with stainless steel bolts and washers.

Green valve box covers utilizing recycled water shall be identified as recycled water use by attaching purple 1 1/4" x 5 3/4" recycled water identification valve box name plate (or changed out to purple recycled water valve box and covers).

21. Attach blue "Potable Water" identification tags or yellow "Non-Potable Water" warning tags, in English and Spanish, to all potable water exterior appurtenances and potable water used for irrigation appurtenances (remote control valves, gate valves, backflows, etc. and as directed by LPVCWD).
22. Identify all above ground potable water, potable water used for irrigation pressure piping, and potable water used for irrigation non-pressure piping, and irrigation system risers as "Non-Potable Water" by attaching green identification labels stating "**Non-Potable Water**" in English and Spanish, at five-foot intervals, and as directed by LPVCWD).
23. Protect drinking fountains from recycled water by placing drinking fountains away from recycled water areas or protecting the drinking fountains to the satisfaction of LPVCWD, LACDPH and SWRCB DDW.

24. Drinking fountains, buildings and other potable water appurtenances shall be protected from potable water quick-coupling valves, if any, when they use the same main line by an approved reduced pressure principle backflow assembly, placed between the quick-couplers and drinking fountain or buildings. Backflow prevention assembly locations to be determined by LPVCWD.
25. All on-site exterior potable water hose bibs shall have brass hose bib vacuum breaker devices attached to them. Potable water identification (warning) tags shall also be attached to the hose bibs.
26. Any connections between potable water systems, potable water irrigation systems, and the recycled water systems are prohibited. It shall be mandatory to disconnect the irrigation system from the potable water meter and remove the backflow prevention assembly from the irrigation system prior to connecting the system to recycled water. (This work shall be coordinated with LPVCWD 's recycled water cross connection specialist.)
27. Existing potable water used for irrigation meters will be removed from the potable water points of connection (POC) by LPVCWD. The owner of record is responsible for purchasing and installing new potable backflow public water supply protection, backflow assembly devices, at use sites where the existing potable water will need to remain in place for on-site use, following LPVCWD specifications and procedures for installation.
28. Make the connection to the recycled water meter using copper pipeline with purple recycled water identification tape on top of it to the inlet side of the master control valve. The customer service valve, downstream of the recycled water meter, shall be a "ball valve" type and be provided with a lever-type turn handle.
29. Attach recycled water warning labels to controller door face and controller enclosure face.
30. Place a minimum of two (2) recycled water identification signs (1/16" aluminum, 12" x 18") in locations designated by LPVCWD. Additional signage may be necessary due to site considerations and access.
31. The irrigation controller shall operate recycled water systems only. (Example: a single controller cannot operate a potable water irrigation system and a recycled water irrigation system). All systems must remain separate. LPVCWD may make special consideration(s) on a case-by-case basis.
32. Submit to LPVCWD record irrigation drawings and record drawing information for all irrigation systems receiving recycled water as well as any non-potable water systems, potable water systems and/or potable water used for irrigation systems within the same use site as required within Section 5.2.2 of this document ("Plan Requirements").
33. Prior to activating recycled water service, LPVCWD will perform final inspection

and final coverage tests to assure compliance with LPVCWD Rules and Regs. Included in the final inspection are cross connection tests to assure that no cross connections exist between the recycled water irrigation system and any potable water sources.

34. Operate and maintain the irrigation system in the same operating conditions as it was when LPVCWD issued its final release. Comply with all Rules and Regs regarding the use of recycled water.
35. Notify LPVCWD when any revision, upgrade, alteration or repair is anticipated or performed to the recycled and potable water used for irrigation systems, on-site potable water systems, or their related components. LPVCWD must approve all plans concerning changes to on-site recycled water systems, potable water used for irrigation systems, and all potable water systems. Inspections for all the above are mandatory.
36. Certain precautions should be taken when recycled water is used. Please see Section 7.2.9 of this document (“On-site Notifications”) for recommended on-site notifications that recycled water is in use on the site.
37. LPVCWD is required to monitor all recycled water use sites for compliance with these Rules and Regs. If a violation occurs, the owner of record and/or the onsite supervisor, who is responsible for the particular use site will be notified by LPVCWD. LPVCWD must be notified orally or in writing of the steps taken to correct the violation 48 hours within receipt of notification. Noncompliance with this regulation will result in termination of recycled water service and a re-connection fee will be charged in order to reestablish service once LPVCWD recycled water cross connection specialist has determined the violation has been corrected. On-site conditions that endanger the public's health will require immediate termination of all water services until corrections have been made to the satisfaction of LPVCWD and appropriate regulatory agencies. See Section 7 of this document (Operational Requirements for Recycled Water Use).
38. Any questions regarding on-site retrofits requirements should be addressed to LPVCWD 's recycled water cross connection specialist at 626-330-2126.

5.3.2 On-site Irrigation System Requirements

The requirements included within 5.2 of this document (“On-site Irrigation Systems”) shall apply to the on-site recycled water retrofits except as modified herein. Within Section 5.2.9 of this document (“Identification Requirements”), add the following requirements for retrofit projects:

- Existing valve boxes (gate valves, manual control valves, or electrical control valves) found on the recycled water system can be branded in the center of the cover with the letters “Recycled Water” in lieu of replacement with a purple cover. Letters must be a minimum of ½”.

- All existing line valves located on the recycled water system shall have their covers identified with a recycled water valve box nameplate that is riveted onto the valve box in lieu of replacing with a new valve cover.
- Existing valve boxes (main valves or shutoff valves) found on the potable water system can be branded in the center of the cover with the letters “Potable Water” in lieu of replacement with new covers identified for potable water. Letters must be a minimum of ½”.
- Existing valve boxes (gate valves, manual control valves, or electrical control valves) found on the non-potable water irrigation system can be branded in the center of the cover with the letters “Non-Potable Water”. Letters must be a minimum of ½”.
- All recycled water quick coupling valves shall comply with these Rules and Regs and change to the ¾-inch ACME threaded type of quick coupler. The key is that the existing quick coupling valves shall not be interchangeable with quick couplers on the non-potable water system and that only trained operations/maintenance personnel will be able to use the existing quick coupling valves.

5.3.3 Submittals

The following information must be submitted to LPVCWD before a final release will be issued:

- One complete electronic set of LPVCWD approved record drawings;
- 60# bond paper 11" x 17" color control charts, one set for each point of connection;
- 60# bond paper 11" x 17" color control charts, hermetically sealed in a 6-mil laminated pouch, one set for each point of connection (See LPVCWD-provided example record drawing for minimum requirements to be shown, for sites with no existing record drawings or plans.) All record drawings shall be dimensioned. All dimensions shall be taken from two permanent points of reference, such as buildings, monuments, sidewalks, curbs, or hardscape. (Final record drawings shall be professionally drafted, to the satisfaction of LPVCWD.)

NOTE: Submit Redlines for approval by LPVCWD, prior to submitting the items listed above.

5.3.4 General Recycled Water Retrofit Construction Sequence

The following is a summary of the general recycled water retrofit construction sequence:

1. Construct potable water meter protection, recycled water service lateral and meter facility (with no meter), recycled water tags, labels, quick couplers, remove and replace irrigation hose bibs with recycled water quick coupling valves, brand all irrigation valve box lids, and construct recycled water identification signs.
2. Perform cross-connection test. Notify LPVCWD to coordinate the cross-connection test with the on-site maintenance, operations personnel, LPVCWD staff, and LACDPH. Provide the temporary connections required to perform this cross-

connection test.

3. Obtain the LACDPH approval. LPVCWD will be the point of contact with these agencies.
4. Coordinate with LPVCWD the installation of the new recycled water meter within the meter box.
5. Remove the existing backflow protecting the irrigation system at each connection location and construct the pressure reducing valve assembly, if required, only after receiving direction from LPVCWD.
6. Perform the irrigation coverage test with the new recycled water system pressure.
7. Remove the existing service lateral from the angle stop to the corporation stop. The potable water service abandonment requirements will be confirmed by LPVCWD on a case-by-case basis.

5.3.5 Conversion from Recycled Water Use

If, due to on-site failure of the recycled water system or use violations, LPVCWD determines it necessary to convert on-site facilities from a recycled water supply to a potable, or other water supply, it is the responsibility of the customer to perform conversion, unless determined otherwise by LPVCWD. Prior to LPVCWD approval, the LACDPH shall review and approve all conversions. As part of the conversion effort, the customer must:

- Isolate the recycled water supply. Service must be removed and plugged at the recycled water main or abandoned in a manner approved by LPVCWD or its designated representative;
- Installation and testing of approved backflow prevention assemblies. The customer must install approved backflow prevention assemblies on all potable, recycled water, or other water meter connections;
- Remove any/all special recycled water quick couplers. The customer is responsible for replacement with quick couplers approved for potable water systems;
- Notify all on-site personnel involved;
- Remove all recycled water identification labels/signs, tags, and tapes where possible. Change out branded valve box lids, to the satisfaction of LPVCWD.

5.4 CONSTRUCTION WATER FACILITIES

5.4.1 Service Connections

Service connections for the construction use of recycled water may be provided by LPVCWD at locations as convenient as practicable to the customer, but at the discretion of LPVCWD. The service will include a valve connection to a recycled water distribution main and water

meter whose capacity shall be determined by LPVCWD from information supplied by the customer in the application for recycled water service (Refer to Appendix 5). The customer must make the connection to the main in accordance with LPVCWD's requirements. The meter will be supplied by LPVCWD and installed by the customer in accordance with LPVCWD's requirements.

5.4.2 On-site Distribution Facilities

Distribution lines for conveying recycled water from the metered service connection to a storage container or water distribution vehicle must be of adequate size and structural integrity to ensure that leaks or ruptures will not occur in the course of normal construction activity. The customer will provide these lines.

Lines crossing construction roadways or other areas receiving regular vehicular traffic must be buried to a depth of at least 18 inches for pipes less than 2 inch diameter or a minimum of 24 inches deep if pipe diameter is 2 inches or greater. All lines must be sleeved with Class 200 pipe twice the diameter of the transmission line. Rigid pipe able to withstand the planned vehicular loads must be employed for such installations. All piping and appurtenances must be identified as recycled water to the satisfaction of LPVCWD.

5.4.3 Storage Facilities

Recycled water storage tanks and distribution vehicles shall be of adequate design and structural integrity to ensure that leaks or ruptures will not occur in the course of normal use. The customer must provide these tanks or ponds. All storage ponds and any storage tanks not supported more than six feet above ground-level shall be contained within a fence or other enclosure that will restrict access by the general public to these facilities at all times when operations personnel are not present. All storage facilities must have signs installed.

Outlet control with positive shut-off must be provided at each storage facility with mandatory LPVCWD approved air gaps. All storage tanks and distribution vehicles must be identified as recycled water to the satisfaction of LPVCWD.

All recycled water storage facilities owned and/or operated by the customer must be protected against erosion, overland runoff, and other impacts unless it is a result of a 25-year frequency, 24-hour storm event, as defined by the Los Angeles County Department of Public Works.

5.4.4 Distribution Vehicles

Vehicles used for distributing recycled water for soil compaction and dust control shall be provided with adequate tanks and plumbing systems to ensure that leaks and ruptures will not occur in the course of normal use. A LPVCWD-approved air gap is mandatory. Control valves shall be provided such that the recycled water can be applied in a controlled fashion on the approved use area and completely retained during transit in all other areas. Spray heads or nozzles shall be provided and configured such that the discharge is uniformly distributed and runoff, ponding, or windblown overspray conditions minimized.

5.4.5 Identification

All meters, valves, piping, storage tanks, “j” pipe stands, distribution vehicles, and impoundments utilizing recycled water must be identified as recycled water to the satisfaction of LPVCWD.

5.5 PROTECTIVE MEASURES

The general backflow protection provisions are included within Section 3.9 (Backflow Prevention) of these Rules and Regs.

During application for recycled water service, the applicant must provide sufficient information, including plumbing and building plans, to enable LPVCWD to determine the level of backflow protection required.

The proper backflow protection, as determined by LPVCWD and approved by SWRCB DDW or other appropriate regulatory agencies, shall then be installed, inspected, and tested before recycled water service is provided.

The customer must notify LPVCWD not less than 30 days prior to a change of use regarding potable or recycled water, or changes to the identity of the customer, on-site supervisor, owner, tenant, or operator. LPVCWD will then reassess the level of protection required. Any and all proposed alterations or upgrades to existing on-site water facilities must be reported to and approved by LPVCWD prior to the proposed change.

At their discretion, representatives of LPVCWD, LACDPH, SWRCB DDW and any other regulatory agency having jurisdiction may conduct surveys of property where LPVCWD provides water service. These surveys are to determine if any actual or potential cross-connections exist. The customer shall provide full cooperation including manpower in facilitating these surveys.

Where protection is required, backflow protection in accordance with Title 17 and approved by LACDPH for potable water supplies shall be provided as follows:

- Each LPVCWD water service connection that supplies potable water to a parcel having a recycled water supply shall be protected against backflow from the parcel into the potable water to the satisfaction of LPVCWD.
- Backflow protection may be required at parcels where there has been a history of cross-connections to recycled water supply being re-established.

Water meters used for recycled water service must be tagged, color-coded, or otherwise distinguished as such in accordance with these Rules and Regs. These meters shall not be interchanged or used for potable water service after repairs and/or meter testing has been performed.

SECTION 6

CONSTRUCTION SPECIFICATIONS

6.1 GENERAL CONDITIONS

All offsite and on-site water and recycled water facilities that will be ultimately owned by LPVCWD shall be designed and constructed according to the requirements, conditions, and standards of LPVCWD, including LPVCWD's Standard Specifications and Drawings.

All on-site irrigation facilities shall be designed by the design consultant for the owner and must meet the requirements, as a minimum, the latest edition of the Standard Specifications for Public Works Construction. In addition to this minimum requirement, the design of the on-site irrigation facilities shall conform to local governing codes, rules, and regulations. The City of La Puente, portions of the City of Industry and unincorporated areas of Los Angeles County shall have authority over the materials, equipment, design, and construction methods used for on-site recycled water facilities within their respective jurisdiction.

The following details and specifications for customer construction specifications that are use specific, such as for irrigation, are intended as examples of current use practice, and are not intended to preclude other approved uses, which may require case-by-case specifications.

All construction work for on-site recycled water facilities shall be in conformance with these Rules and Regs, and addendums thereto. Work is to begin only after the contractor, installer, or customer has obtained approval in the form of signed plans or revisions for recycled water use from LPVCWD (issued a Use Permit) and LPVCWD has received approval from the LACDPH.

6.1.1 *Trade Names or Approved Equivalents*

The contractor shall be permitted to supply any of the specified materials or to offer for approval by the design consultant and LPVCWD equivalent materials in accordance with the appropriate section of the Rules and Regulations, and LPVCWD's Standard Specifications/ Drawings.

6.1.2 *Permits and Licenses*

Except as otherwise provided, the contractor must procure all permits and licenses, pay all charges and fees, and give all notices necessary and incidental to the due and lawful prosecution of the work.

6.1.3 Liability

LPVCWD, LACDPH, LARWQCB, San District, the SWRCB DDW and any employee or authorized agent of the said agencies shall not be personally responsible for any liability arising out of the work performed. The customer shall procure and maintain for the duration of the construction period certificates of general liability insurance and workmanship insurance in forms and amendments approved by LPVCWD and naming LPVCWD, LACDPH, LARWQCB, San District, SWRCB DDW and all the agencies/individuals as additional insureds.

6.1.4 Loss and Damage

Neither LPVCWD, LACDPH, LARWQCB, San District, SWRCB DDW, nor authorized representatives thereof shall be answerable or accountable in any manner for any loss or damage that may happen to the work or any part thereof; or for any material or equipment used in performing the work; or for injury or damage to any person(s), either workmen or the public; or for damage to adjoining property from any cause whatsoever during the progress of the work or at any time before or after final acceptance.

6.1.5 Legal Responsibility

The contractor shall keep fully informed of all laws, ordinances and regulations that in any manner affect those engaged or employed in the work or the materials used in the work, or that in any way affect the conduct of the work, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. If any discrepancy or inconsistency is discovered in the plans, drawings, specifications, or other documents in relation to any such law, ordinance, regulations, order, or decree, the contractor shall promptly after discovery report the same to the design consultant and LPVCWD in writing.

The contractor shall observe and comply with and shall cause all of the contractor's agents and employees, and any subcontractors, to observe and comply with all such existing and future laws, ordinances, resolutions, regulations, orders and decrees, and shall protect and indemnify LPVCWD, LACDPH, LARWQCB, San District, SWRCB DDW and all their officers and agents against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree, whether by the contractor or contractor's employees.

The contractor must also indemnify and save LPVCWD, its officers, its employees or authorized agents harmless from all costs, losses, expenses, damages, attorneys' fees, and other costs of defense that LPVCWD may incur with respect to or on account of the work, and with respect to the failure, neglect or refusal of contractor to faithfully perform the work and all of contractor's obligations under the contract. Such costs, expenses, and damages shall include all costs incurred by LPVCWD to defend against any claims, stop notices or lawsuits based thereon in which LPVCWD is made a party.

The contractor shall observe the rules and regulations of the State, Department of Industrial Relations, Division of Industrial Safety, and, in particular, rules and regulations relating to shoring of trenches and excavations. All work shall be done in accordance with all directives,

provisions and requirements pertaining to the method and manner of performing the work, in accordance with CAL-OSHA's latest amendment or revision.

The contractor shall provide a job foreman present during working hours that can communicate effectively with LPVCWD personnel both orally and in writing.

6.1.6 Inspection Authority

LPVCWD, under agreement with its customer, shall at all times have access to all on-site work during construction and shall be furnished with such information as it may desire regarding location of facilities, the progress, workmanship and character of materials used in the work.

LPVCWD may notify the customer, including any site controlled by the City of Industry or La Puente, of an apparent failure on the part of the contractor to carry out orders given or to perform any provisions of the plans or specifications. Upon its confirmation of the apparent failure, the customer must require the contractor to suspend the work wholly or in part. The contractor shall immediately comply with the written order of LPVCWD to suspend the work wholly or in part. Dependent on the nature of the non-compliance, it may require immediate action by the contractor via verbal order with a written order following. The work shall be resumed when methods or defective work are corrected as ordered and approved in writing by LPVCWD. Failure to comply with requests of LPVCWD will prevent further work, termination of the supply of all potable water and recycled water, and the final release of the entire project.

6.2 MATERIAL SPECIFICATIONS

6.2.1 Identification Requirements

Recycled water, potable water, and non-potable on-site identification requirements are specified in Section 5.2.9 ("Identification Requirements") of these Rules and Regula Regs.

6.2.2 Miscellaneous Irrigation Facilities

- Recycled water identification products shall be used for irrigation piping, fittings and appurtenances where available.
- PVC sleeving shall be AWWA C-900 DR- 14 PVC pipe, or solvent weld joint, Class 200, 200 psi rated pipe or greater.
- All PVC pipe and fittings shall be installed below grade, except for ultra violet protected pipe and fittings.
- Water/garden hoses and hose appurtenances utilizing recycled water shall be purple in color with heavy-duty brass fittings. Hoses shall be continuously imprinted with **"CAUTION: RECYCLED WATER – DO NOT DRINK"** and rated at 150 psi working pressure. Hoses shall only be used for recycled water use. Potable water use at any time is strictly prohibited.
- Quick coupling valves may be required to be removed if they are used in contrary to LPVCWD's Rules and Regs or are located in an area that encourages unauthorized

use. The manner of removal shall be subject to approval by LPVCWD. Quick coupling valves shall conform to the following:

Rating – Quick coupling valves for recycled water shall be ¾-inch or one-inch nominal size with brass construction, ACME thread body and key, and a normal working pressure of 150 psi. All quick coupling valves for recycled water shall be of a design that prevents the quick coupler key (spike) from being used in potable water or non-potable water quick couplers.

Cover – The cover shall be permanently attached to the quick coupling valve. It shall be purple in color and made of rubber or vinyl with the following information stamped or molded on the cover: **“Recycled Water”** in English and Spanish; **“Do Not Drink”** in English and Spanish; or the international “Do Not Drink” symbol (a glass of water in a circle with a slash through it); and a locking cover.

- Ball valves required directly behind the meter box or above ground before the strainer shall be Wilkins #850 full port ball valves or approved equal.
- All remote control valves, gate valves, quick coupling, drip valve assemblies, flush valve assemblies, manual drain valves, and pressure relief valves shall be installed in suitable valve boxes, complete with locking and hinged cover, or other approved secure enclosure. Recycled water valve boxes and covers must be colored purple and have recycled water identification imprinted. All valve box covers shall be bolted down with stainless steel bolts and washers.
- Wye strainer/basket strainers shall have cast bronze or iron bodies. Screen shall be 80 mesh minimum, stainless steel screens. Automatic flushing is prohibited.
- Recycled water irrigation identified sprinkler heads shall be used whenever possible. All new irrigation heads must have internal check valves.
- Adjustable-arc, adjustable-radius heads/nozzles shall be used whenever possible, and are mandatory at site perimeters, walks, play areas, along non-vegetated areas, hardscape, and near picnic tables/benches and drinking fountains.
- All risers shall be considered aboveground piping. This includes existing risers on systems to be retrofitted to recycled water use.
- All sprinkler heads must be securely installed to minimize breakage utilizing sprinkler stabilizer systems and sprinkler ties.
- Install external check valves at all heads, bubblers, or lateral lines that exceed manufacture’s internal check valve requirements. Minimize all irrigation runoff at each head or bubbler immediately after valve has closed by installing appropriate inline check valves to the satisfaction of LPVCWD.
- LPVCWD recommends that all irrigation controllers be equipped with a rain sensor module that shuts down the irrigation system during rainy conditions. Exceptions to the above would be centralized irrigation systems utilizing a centrally located weather station.
- LPVCWD recommends moisture sensors on all newly constructed or retrofitted irrigation systems.
- Inline pressure regulators smaller than 3-inches in diameter must have a cast bronze

body. The screens shall be stainless steel. Pressure regulators may be utilized in place of the pressure-regulating feature as part of the master valve requirement.

- Recycled water master valve must be a cast bronze or iron (cast iron valves shall be epoxy coated) pressure regulating (manually and electrically) contamination proof, self-flushing and cleaning style valves, and normally closed position valve. Only valves that utilize reverse flow and fail in the closed position shall be utilized.
- The recycled water flow sensor must be compatible with the controller and master valve. The flow sensor must have high flow shut off capability for all remote control valves and irrigation system mainlines.
- Recycled water remote control valves can have purple plastic or brass bodies and bonnets. Purple valve handles shall be used. The valves shall be contamination proof, self-flushing and cleaning style valves. Those valves must be pressure regulating (manually and electrically) where required due to elevation changes, and be a normally closed positioned valve. Only valves that utilize reverse flow and fail in closed position shall be utilized.

6.2.3 Construction Water Facilities

All piping employed for the distribution of recycled water for construction purposes shall be in serviceable condition and free from leaks and structural faults. All joints shall be structurally sound and free from leaks. All valves employed with facilities using recycled water for construction purposes shall be in serviceable condition, provide positive shutoff, and be free from leaks. All storage tanks used for recycled water, whether fixed or mounted on distribution vehicles, must be structurally sound and free from leaks. Approved air gaps are mandatory.

6.3 METHODS OF CONSTRUCTION

6.3.1 Offsite Potable and Recycled Water Facilities

All offsite and on-site water and recycled water facilities that will be ultimately owned by LPVCWD shall be constructed according to the requirements, conditions, and standards of LPVCWD, including LPVCWD's Standard Specifications and/or Drawings.

6.3.2 On-site Irrigation Systems

All on-site irrigation facilities shall be constructed per the requirements of the design consultant for the owner and shall meet the requirements of the latest edition of the Standard Specifications for Public Works Construction, latest. In addition to this minimum requirement, the construction of the on-site irrigation facilities shall conform to local governing codes, rules, and regulations. The City of La Puente and portions of the City of Industry and unincorporated areas of Los Angeles County shall have authority over the construction methods used for on-site recycled water facilities within their respective jurisdiction.

All onsite valves, valve boxes, valve markers and power supplies shall be installed in accordance with the requirements in the Rules and Regs and local building codes.

6.3.3 On-site Construction Water Facilities

All valves installed along the recycled water transmission pipeline and not attached to a rigid structure must be protected from thrust motion if such protection is determined to be required by the engineer or inspector. To achieve such protection, metal stakes with wire or plumber's tape lashes shall be installed at all such valves. Alternative methods of protection from thrust motion must be approved by LPVCWD's General Manager.

All recycled water storage tanks shall be erected only on level ground. Provisions shall be made to prevent differential settling of the tank supporting structure. Approved air gaps are mandatory in order to comply with Title 17.

6.4 INSPECTION INCLUDING INSPECTION ITEMS

6.4.1 General

The inspection of the work shall not relieve the contractor of any obligations to complete the work as prescribed by the applicable specifications. Defective work shall be made good and unsuitable materials may be rejected notwithstanding the fact that such defective work and unsuitable materials or materials not as specified on the approved plans that have been previously overlooked by the inspector and accepted. The installation and inspection of unsuitable materials or materials not as specified on the approved plans shall not be construed as acceptance, and modification to these specifications shall only be made by LPVCWD in writing.

6.4.2 Construction Schedule

If required by LPVCWD, the contractor shall submit a schedule to LPVCWD outlining its proposed construction operations. The contractor must comply with the Rules and Regs regarding prior notification for inspection and deviations from the approved schedule.

6.4.3 Notification and Approvals

All work, on-site and offsite, shall be subject to inspection and approval, as required by LPVCWD in these Rules and Regs and LPVCWD Standard Specifications. The contractor shall schedule LPVCWD, SWRCB DDW, and all other regulating agencies for inspection on all on-site irrigation, potable, and fire systems. The contractor shall notify the LPVCWD inspector via a phone call two (2) working days (48 hours) in advance of backfilling so that proper inspection may be provided. Via these Rules & Regulations, the contractor in advance of any and all inspection requirements shall give a minimum of two (2) working days (48 hours) notice, whether for materials or construction work.

6.4.4 Inspection Intervals

All work is subject to inspection by LPVCWD and must be left open and uncovered until

approved by LPVCWD. Potholing of piping is strictly prohibited as the means to of determining finished location.

The contractor shall not proceed with any subsequent phase of work until the previous phase has been inspected and approved by LPVCWD Inspector. Record drawings must be updated daily prior to inspection.

6.4.5 Final Inspection

Following the completion of all construction work and the submittal and approval of record documents, calibration reports, certificates, and installation approvals, the Contractor shall request final inspection of the work. This request shall include the scheduling of the cross-connection and operational testing. Before final acceptance, LPVCWD, accompanied by the Contractor's superintendent or foreman, will make a final inspection of all work.

6.4.6 Construction Water Facilities Inspection

The operator must give LPVCWD a construction schedule prior to initiation of construction work.

6.5 REVIEWS

6.5.1 LPVCWD Offsite Facilities

The contractor shall furnish LPVCWD with such information, as is required by LPVCWD's Standard Specifications and these Rules and Regs, regarding the character and quality of materials used for all offsite and on-site water and recycled water facilities that will be ultimately owned by LPVCWD. The contractor must submit all shop drawings and certifications as specified within LPVCWD's Standard Specifications.

6.5.2 On-site Irrigation Systems

For the on-site irrigation systems, LPVCWD will focus its review on the identification requirements and any other specific items that are specified by these Rules and Regs. The character and quality of the materials used for the irrigation system will be the responsibility of the design engineer and/or developer/customer/owner of the property.

6.5.3 Construction Water Facilities

For construction water facilities, LPVCWD will focus its review on the identification requirements and any other specific items that are specified by these Rules and Regs. The character and quality of the materials used for the construction water facilities will be the responsibility of the design engineer and/or developer/customer/owner of the property. Any required corrections shall be noted in the form of a punch list and submitted to the contractor by LPVCWD for correction. Service startup shall not be authorized until all corrections are made to the satisfaction of LPVCWD.

6.6 GENERAL TESTING

6.6.1 Offsite Facilities

Upon the successful completion of the required testing, LPVCWD will perform the final inspection in accordance with LPVCWD's Standard Specifications. All identification requirements will be reviewed and field inspected. As-built package will be reviewed and finalized. LPVCWD will note all required corrections in the form of a punch list issued to the contractor. Final acceptance of the offsite facilities will not be authorized until all corrections are made to the satisfaction of LPVCWD.

6.6.2 On-site Facilities

Prior to final acceptance by LPVCWD, all on-site recycled and potable water systems must pass an operational test within 30 days of the completed irrigation system installation. The test shall be conducted by the contractor in the presence of LPVCWD Inspector. The scheduling of these tests is the responsibility of the contractor. The contractor must provide the project superintendent or on-site project manager as well as two (2) workers in order to conduct the cross connection test.

The following items shall be examined:

- All items as stated in the final inspection requirements as summarized in Section 6.4.2 ("Inspection Items") of this section of the Rules and Regs;
- Operation and programming/set-up of the automatic controllers and related appurtenances;
- General operation and coverage of the irrigation system;
- Required backflow protection and all backflow test reports of the on-site potable water systems;
- Site and appurtenance identification requirements as determined by LPVCWD Inspector;
- Cross-connection testing for points of connection; and
- As-built package review and submittal.

LPVCWD will note all required corrections in the form of a punch list issued to the contractor. Regular service startup shall not be authorized until all corrections are made to the satisfaction of LPVCWD. Punch list is valid for 30 calendar days only.

6.7 ON-SITE TESTING

The following is a summary of the on-site checking and testing that LPVCWD will perform:

1. The site will be reviewed for recycled water identification.
2. Where potable water is used for irrigation (non-potable water), the identification will be checked.

3. Where potable water is used for domestic purposes, the identification will be checked.
4. Where potable water fire protection is on-site, the identification will be checked.
5. Coverage Testing:
 - Operate all recycled water irrigation valves to verify minimum runoff, ponding, misting and overspray;
 - Eliminate direct spray onto all areas other than LPVCWD approved irrigated area, especially those where there may be a possibility of public contact;
 - Identify and eliminate systems that irrigate areas not approved to utilize recycled water; and
 - All plant materials shall be trimmed, removed, or irrigation systems altered to prevent obstruction of the irrigation spray patterns, to the satisfaction of LPVCWD.
6. Cross connection testing per Section 6.8 (“Cross-connection Test”).
7. Verify use site conforms to the most current LPVCWD approved as-built drawings.
8. Review Use Permit for contact information and on-site supervisor information.
9. Review recycled water testing forms included in the Appendix for all four (4) tests since last routine on-site inspection and testing.
10. Inquire with the on-site supervisor or his designated representative if any upgrades, alterations, or repairs have taken place on the use site since the last site inspection.
11. LPVCWD will note all corrections in the form of a punch list issued to the on-site supervisor. It is the on-site supervisor's responsibility to contact LPVCWD for all corrections noted on the punch list within thirty (30) consecutive calendar days after issuance to avoid termination of recycled water service. Recycled water service will not be reconnected until all punch list items have been completed to the satisfaction of LPVCWD.

6.8 CROSS-CONNECTION TEST

Case I applies to cases where recycled water is the only water supplied to a site. Case II applies to where recycled water and potable water are being supplied to a site. The following are the steps required to perform the cross-connection control testing for each of these cases.

6.8.1 Case I (Recycled Water used for irrigation – no other water sources on site)

1. Verify and record the following:
 - Owner address, site address, on-site supervisor, meter number, meter sizes and meter location;
 - Public and private backflow protection information, locations, and current test

- reports;
- Identification tags and labels for all meters, vaults, backflow assemblies, and related appurtenances;
 - Use site number on controller enclosure; and
 - List of all personnel in attendance and participating in testing.
2. Verify full irrigation system operation and pressure for all valves and sprinklers on the recycled water irrigation system.
 3. Deactivate Recycled Water System:
 - Turn off and lock service;
 - Customer shall open master valve manually (if any);
 - Attach “Cross Connection Testing in Progress” tag to water meter. Attach magnetic “cross connection testing in progress” label to controller door;
 - Run each control valve using irrigation controller, run all quick coupling valves; and
 - Customer shall turn off irrigation controller.
 - Optional: Install pressure recorders on a quick coupler near the meter and far end of the irrigation system.
 4. Pressure Reduction of System - Reduce pressure to an acceptable level (approved by regulatory agency).
 5. Verify the water pressure does not exceed an acceptable level at the low points of the system.
 6. Start the approximately 2 hour cross connection test. Record start date and time. Notify on-site personnel recycled water irrigation system is to remain off for testing.
 7. Return to site a minimum of 2 hours after start of cross-connection test. Record end date and time.
 8. Verify the following conditions:
 - Angle stop is off and locked;
 - Master valve is open (in manual position);
 - Irrigation controllers are still off; and
 - Verify the system water pressure does not exceed the ("acceptable level") (as approved by the regulatory agencies) at the low point of the recycled water irrigation system when test was started.
 9. Complete report stating whether irrigation system passed or failed the cross-connection test.

If system passed - LPVCWD unlocks and turns on angle stop, the customer's on-site

maintenance personnel are responsible for pressurizing the recycled water irrigation system, turning on controller, and returning the master valve back to the normal operating position.

If system fails - Angle stop shall remain off and locked. LPVCWD will notify customer and SWRCB DDW of any cross connections. Locate source of cross connection. Eliminate cross connection. Retest all systems. Complete cross-connection report form. Other requirements may be required by LPVCWD as necessary on a case-by-case basis.

10. LPVCWD will file cross-connection test form. Send copy to SWRCB DDW and the owner.

6.8.2 Case II (Recycled Water used for irrigation with potable water service on site)

1. Verify and record the following:
 - Owner address, site address, on-site supervisor, meter number, meter sizes and meter location;
 - Public and private backflow protection information, locations, and current test reports;
 - Identification tags and labels for all meters, vaults, backflow assemblies, and related appurtenances;
 - Use site number on controller enclosure; and
 - List of all personnel in attendance and participating in testing.
2. Test each system in the following order:
 - A. Recycled Water used for irrigation systems;
 - B. Potable water systems.

6.8.3 Recycled Water Used for Irrigation Cross-Connection Test

1. Optional: Install pressure recorders on recycled water quick couplers and on potable water reduce pressure principal device.
2. Verify full irrigation system operation and pressure for all valves and sprinklers on the recycled water irrigation system. Customer shall manually open master valve, if any, on the recycled water irrigation systems.
3. Verify full water pressure at all recycled water non-irrigated systems.
4. Verify full irrigation system operation and pressure for all valves and sprinklers on the potable water used for irrigation system (non-potable). Customer shall manually open master valve, if any on the non-potable water irrigation systems.
5. Verify full water pressure at potable water fire protection systems, as necessary.

6. Verify full water pressure at all potable water system outlets (buildings, restrooms, drinking fountains, sinks, hose bibs, and all other facilities and appurtenances).
7. Deactivate Recycled Water Irrigation System:
 - Turn off and lock angle stop;
 - Customer shall open master valve manually (if any);
 - Attach “Cross Connection Testing in Progress” tag to water meter. Attach magnetic “cross connection testing in progress” label to controller door; and
 - Customer shall turn off irrigation controller.
8. Reduce System Pressure – Reduce pressure to an acceptable level as approved by the regulatory agencies on the recycled water irrigation system at the low point of the system.
9. Verify full water pressure on the following systems: recycled water systems not a part of the irrigation system; at the end of the potable water used for irrigation (non-potable) systems; potable water fire protection systems, as necessary; and all potable water outlets.
10. Start recycled water irrigation system cross-connection test. Record start date and time. Notify on-site personnel recycled water irrigation system is to remain off for testing.
11. Return to site within the time established by the regulatory agencies after start of cross-connection test. Record end date and time.
12. Verify the following conditions on the recycled water irrigation system:
 - Angle stop is off and locked;
 - Master valve is open (in manual position);
 - Irrigation controllers are still off; and
 - Verify the system water pressure does not exceed the "acceptable level" (as approved by the regulatory agencies) at the low points of the recycled water irrigation system were test was started.
13. Verify full water pressure on the following systems: recycled water systems not a part of the irrigation system; at the end of the potable water used for irrigation (non-potable) systems; potable water fire protection systems, as necessary; and all potable water outlets.
14. Complete section of the report stating whether recycled water irrigation system has passed or failed the cross connection test.

If system passed - LPVCWD unlocks and turns on angle stop, the customer's on-site maintenance personnel are responsible for pressurizing the recycled water irrigation system, turning on controller, returning the recycled water master valve back to the normal operating position.

If system fails - Angle stop shall remain off and locked. Turn off and lock all potable water angle stops. Discontinue use of all systems until further notice. LPVCWD will notify customer and SWRCB DDW of any cross connections. Locate source of cross connection. Customer will eliminate cross connection. Retest all systems. Complete cross-connection report form. Other requirements may be required by LPVCWD as necessary on a case-by-case basis, as determined by LPVCWD.

6.8.4 Potable Water Cross-Connection Test

1. Verify full water pressure at all potable water system outlets (buildings, restrooms, drinking fountains, sinks, hose bibs, and all other facilities and appurtenances).
2. Verify full irrigation system operation and pressure for all valves and sprinklers on the recycled water irrigation system. Customer shall manually open master valve, if any, on the recycled water irrigation system.
3. Verify full water pressure on recycled non-irrigation water system outlets.
4. Verify full irrigation system operation and pressure for all valves and sprinklers on the potable water used for irrigation systems (non-potable). Customer shall manually open master valve, if any on the non-potable water irrigation systems.
5. Verify full water pressure at potable water fire protection systems, as necessary.
6. Deactivate potable water system.
 - Turn off backflow at isolation valves; and
 - Attach “Cross Connection Testing in Progress” tag to isolation valve.
7. Reduce pressure to an acceptable level (as approved by the regulatory agencies) on the potable water system. Verify the water pressure is at an acceptable low level at low point of system.
8. Verify full water pressure on the following systems: at the end of the recycled water irrigation systems; recycled water non-irrigation systems; at the end of the potable water used for irrigation (non-potable) systems; and potable water fire protection systems, as necessary.
9. Start potable water cross-connection test. Record start date and time.
10. Return to site within the time established by the regulatory agencies after start of cross-connection test. Record end date and time.
11. Verify potable water system pressure does not exceed acceptable level (as approved by the regulatory agencies) at the low points of the potable water system where the test was started.
12. Verify full water pressure on the following systems: at the end of the recycled water irrigation systems; recycled water non-irrigation systems; at the end of the potable

water used for irrigation (non-potable) systems; and potable water fire protection systems, as necessary.

13. Complete section of the report stating whether the potable water system has passed or failed the cross connection test.

If system passed - Customer's on-site maintenance personnel are responsible for opening backflow isolation valves, pressurizing the potable water system, returning both the recycled water irrigation and potable water irrigation (non-potable) master valves back to the normal operating position.

If system fails - Service remains off and isolated. LPVCWD staff will turn off and lock all recycled water and potable water angle stops. Discontinue use of all systems until further notice. LPVCWD will notify customer, SWRCB DDW of any cross connections. Locate source of cross connection. Customer will eliminate cross connection. Retest all systems. Complete cross-connection report form. Other requirements may be required by LPVCWD as necessary on a case-by-case basis, as determined by LPVCWD.

Note: All testing shall be done in conjunction with and the approval of LPVCWD Cross-Connection Specialist, and SWRCB DDW.

6.8.5 Site Specific Requirements

The Owner of record must notify their employees and/or tenants when cross connection control testing may affect the water service to facilities under the Owner's control.

The Owner of record shall be required to notify its employees, tenants, and the fire department when the fire protection system is involved in the cross-connection control testing process. (Fire watches and/or other related requirements are the sole responsibility of the Owner.)

For recycled water non-irrigation systems, testing requirements will be determined on a case-by-case basis by LPVCWD.

SECTION 7

OPERATIONAL REQUIREMENTS

The operation and surveillance of all of LPVCWD's offsite water and recycled water facilities, up to and including LPVCWD's meter, shall be under the management and control of LPVCWD. No other persons except authorized employees and/or representatives of LPVCWD shall have any right to inspect, operate, adjust, change, alter, move, or relocate any portion of LPVCWD's facilities.

The operation and surveillance of on-site water and recycled water facilities are the responsibility of the applicant, owner, or customer. However, pursuant to these Rules and Regulations, LPVCWD shall monitor and inspect the on-site recycled water system and shall have the right to enter upon the customer's premises during reasonable hours.

7.1 OPERATIONAL REQUIREMENTS

The following is a summary of specific limitations on properties that are using recycled water.

7.1.1 *Runoff Conditions*

Conditions that directly or indirectly cause runoff outside of/ or within the approved use area, whether by design, construction practice, or system operation, must be minimized. The use of recycled water on water-saturated or frozen ground or during periods of precipitation such that runoff is induced, is prohibited.

7.1.2 *Ponding Conditions*

Conditions that directly or indirectly cause a ponding condition outside of or within the approved use area, whether by design, construction practice, or system operation, must be minimized. Temporary ponding in a vegetated area caused by draining of system or meter testing is allowed in LPVCWD specified areas only with prior LPVCWD approval.

7.1.3 *Direct Overspray Conditions*

Any discharge of water directly onto areas other than that within the approved use area is strictly prohibited.

7.1.4 *Windblown Overspray Conditions*

Conditions that directly or indirectly permit windblown spray to pass outside of the approved use area, whether by design, construction practice, or system operation, must be minimized.

7.1.5 Unapproved Uses

Use of recycled water for any purposes other than those explicitly approved in a Use Permit issued by LPVCWD and without the prior knowledge and approval of LPVCWD is strictly prohibited.

7.1.6 Disposal In Unapproved Areas

Disposal of recycled water for any purposes, including approved uses, in areas other than those explicitly approved in the Use Permit issued by LPVCWD and without the prior knowledge and approval of LPVCWD is strictly prohibited. Discharge of water from flushing or draining of the recycled water system shall be done either at the approved use site and in a manner that does not create ponding or runoff conditions, (See Section 7.1.2 “Ponding Conditions” for special considerations.) or to a sanitary sewer manhole, with the approval of the agency responsible for operation of the sanitary sewer. In no case shall the discharge of recycled water to a sanitary sewer cause the sewer to overflow or otherwise create a public health hazard or nuisance. Air gap protocol must be applied.

The direct or indirect discharge from use areas of recycled water to surface waters, either perennial or ephemeral, including wetlands, vernal pools, etc. is prohibited, unless otherwise authorized by an NPDES Permit.

7.1.7 Cross Connections

Cross connections, permanent or temporary, resulting from the use of recycled water or from the physical presence of a recycled water service, whether by design, construction practice, or system operation, are strictly prohibited.

7.1.8 Unprotected Drinking Fountains

Any drinking fountain located within the approved use area designated by the Use Permit shall be protected, by siting and/or a structure, from contact with recycled water. Lack of such protection, whether by design, construction practice, or system operation, is strictly prohibited.

7.1.9 Unprotected Public Facilities

Facilities that may be used by the general public, or on-site personnel, including but not limited to eating areas, eating surfaces/benches, pools, spas, hardscape, and playground equipment/play areas, and located within the approved use area designated by the Use Permit, shall be protected by siting and/or a structure from contact with mist, runoff or recycled water. Lack of such protection is prohibited until review and concurrence by LPVCWD and SWRCB DDW on a case-by-case basis.

7.1.10 Hose Bibs

Installation of hose bibs on any on-site system that presently operates or is designed to operate with recycled water, regardless of the hose bib construction or identification, is strictly prohibited except if the hose bibs are in cemeteries or an industrial facility

7.1.11 Fire Hydrants

Use or installation of fire hydrants on any site that presently operates or is designed to operate with recycled water, regardless of the fire hydrant construction or identification, requires prior written approval by LPVCWD.

7.1.12 Hours of Operation

Irrigation with recycled water is restricted to particular hours that vary for the following application areas:

- Turf areas and center street medians – between 10:00 p.m. and 6:00 a.m.;
- Slopes and groundcover/shrub areas - any hour (if no potential for public contact);
- Golf courses – between 9:00 p.m. and 5:00 a.m.; and
- Golf courses – fill impoundments - between 4:00 a.m. and 6:00 p.m.

Minimizing potential public contact with recycled water shall take precedence over recycled watering schedules. Irrigation system runtimes shall be adjusted to minimize public contact with recycled water, on an individual lateral system basis. LPVCWD requires specific run times and durations where there is a history of public contact. Consideration will also be given to allow maximum drying time prior to subsequent public use.

7.1.13 Water/Garden Hoses and Hose Appurtenances

Water/garden hoses and hose appurtenances utilizing recycled water shall be purple in color with heavy-duty brass fittings. Hoses shall be continuously imprinted with “**Caution; Recycled/reclaimed Water – Do Not Drink**” and rated at 150 psi working pressure. Hoses either the color purple or identified as with recycled water symbols, shall only be used for recycled water use. Use of these hoses for potable water use is strictly prohibited.

7.1.14 Domestic Wells

The application of recycled water within fifty (50) feet of a domestic well, and impoundment of recycled water within one hundred (100) feet of a domestic well, unless approved by SWRCB DDW, is prohibited.

7.1.15 Recycled Water Impoundments

All recycled water impoundments must be adequately protected from erosion, washout, and flooding such that no discharge occurs unless the discharge is a result of a 25-year, 24-hour storm event or greater.

Any storage facility or impoundment containing recycled water for reuse applications must be managed in a manner to control odors, nuisance conditions or vectors such as mosquitoes. Should such problems develop, a management plan shall be devised and implemented by the customer to monitor, correct, and control future occurrences.

7.2 ON-SITE IRRIGATION SYSTEMS

7.2.1 *Supervision*

On-site irrigation systems at each use area under the customer's control shall be under the management of the on-site supervisor designated by the customer or the operator and approved by LPVCWD.

On-site supervisors shall be responsible for the installation, operation, and maintenance of the irrigation system; enforcement of the Rules and Regs; prevention of potential hazards and cross connections; and maintenance of the recycled water system plans in record drawing form, including location of any on-site potable water features and facilities. The on-site supervisor, in the event of a contamination to the public potable water supply, shall be responsible for immediate notification to LPVCWD.

The on-site supervisor shall also have the following responsibilities: to make sure all operations personnel are trained and familiarized with the use of recycled water; to furnish their operations personnel with maintenance instructions, controller charts, and record drawings to ensure proper operation in accordance with these Rules and Regs; to notify LPVCWD of any and all updates or proposed changes, modifications, or additions to the on-site facilities; to operate and control the irrigation system to be in compliance with the on-site limitations and these Rules and Regs; and apply the recycled water at a rate that does not exceed the infiltration rate of the soil.

LPVCWD will require that an “On-site Recycled Water Supervisor” obtain instruction in the use of recycled water, such instruction being provided by or approved by LPVCWD.

The on-site supervisor or his or her representative shall check all appurtenances on the on-site irrigation system to ensure proper operation, and perform a coverage test of the system on an annual basis. Owner shall keep records of the annual on-site testing (refer to the Appendix 7 form) for LPVCWD review. Records must be kept for a period of five years as a minimum.

The on-site supervisor or his or her representative must be available during normal working hours at an address listed with LPVCWD for the purpose of hosting an inspection tour or for discussing operational aspects of the system. The on-site supervisor must be able to effectively communicate with LPVCWD personnel orally and in writing. The on-site supervisor or his representative shall be available via telephone at a number listed with LPVCWD for emergency off-hours contact. Where necessary, keys and/or lock combinations shall be issued to LPVCWD to provide access upon request.

7.2.2 *Operator Certification Submittal*

Once the customer has selected the operator of an on-site recycled water system, the certification of recycled water service operation must be initiated. LPVCWD shall evaluate this submittal and advise the operator of the need for any additional information or action. Operators may be required by LPVCWD to attend a training session coordinated by LPVCWD. If the customer selects a new operator during the course of service, a new Use Permit form shall be submitted by the new operator to LPVCWD.

7.2.3 Temporary Service Connection

A temporary service connection may be provided for on-site construction testing purposes. The temporary service connection consists of the permanent service connections and meter plus any backflow prevention assemblies, if required. Temporary service connection is valid for 6 months.

7.2.4 Service Startup

Following final LPVCWD inspection and certification of the project, the customer must request in writing regular service startup. LPVCWD shall begin regular service within 24 hours of approval of service startup.

7.2.5 Confinement of Irrigation

The customer shall be responsible for maintaining and controlling the system in order to minimize human contact, prevent consumption of recycled water, and to control and eliminate direct spray, overspray, ponding and runoff. The customer is responsible for any subsequent uses of the recycled water.

7.2.6 Pressure Testing

In order to determine the existence of any cross connections or backflow conditions into the potable water system, acceptable tracer dyes may periodically be introduced into the recycled water system by LPVCWD where feasible, and/or a customer may perform a pressure test where the recycled system is isolated for a period of 2 hours or as directed by LPVCWD.

7.2.7 Contamination

In the event of contamination or pollution of a potable water system due to a cross connection or other failure, LPVCWD and SWRCB DDW shall be immediately notified, so that appropriate measures will be taken to correct the problem. On-site supervisor shall submit a written report explaining the contamination within five working days.

7.2.8 Maintenance

A preventive maintenance program designed to ensure the continued operation of all system elements within the requirements of these Rules and Regulations shall be implemented by the customer and subject to inspection by LPVCWD. Records must be kept on file for five years as a minimum. See Section 7.2.1 (“Supervision”) for reporting requirements. See Appendix 7 for onsite testing report form.

7.2.9 On-site Notifications

The following are guidelines for the recommended on-site notifications that recycled water is in use on the site.

Workers shall be notified that recycled water is in use. Notification shall include the posting of conspicuous identification signs with proper wording of sufficient size to be clearly read.

It is recommended that these recommended notifications be issued to all workers who come in contact with recycled water or equipment utilizing recycled water.

In those locations where English is not the primary language of the workers, the signs and information shall be in the appropriate language as well as English. Workers should be informed of the potential health concerns involved with the ingestion of recycled water. Precautionary measures should be taken to minimize worker contact with recycled water. Workers should not be subjected to direct recycled water sprays. Workers should be provided with protective clothing (rain gear/gloves) by their employer when there will be more than casual contact with recycled water.

Safe drinking water should be supplied for the workers. Where bottled water is provided, the water should be in contamination-proof containers, and be protected from recycled water and dust.

Potable hand-washing facilities should be provided, where appropriate. It is strongly recommended that before ingesting food or drink, and at the end of the work period, all workers wash with soap and water any parts of their body that may have come in contact with recycled water.

Precautions should be taken to avoid the contamination of food taken into the recycled water use areas. Food should not be taken into areas still wet with recycled water.

Regardless of the recycled water conversion, an adequate first aid kit should be available on-site. It is recommended that any worker who receives a cut, abrasion, or scratch receive proper medical attention after the accident to prevent possible infection or other complications.

7.2.10 Recycled Water Application

Application of recycled water to the Use Area shall be at a reasonable agronomic rate and shall consider soil, climate, and nutrient demand. Application rates shall ensure that a nuisance is not created. The seasonal nutritive loading of the Use Area including the nutritive value of organic and chemical fertilizers and of the recycled water shall not exceed the nutritive demand of the landscape.

7.3 ROUTINE FOLLOW-UP TESTING AND INSPECTION

Systems constructed to immediately begin using recycled water or systems constructed for recycled water use, but which will be using potable water in the interim as recycled water becomes available in the area, are required to successfully pass cross-connection testing in order to continue recycled water service. A final release letter will be issued when these testing and other LPVCWD requirements are met. No potable water other than for testing and no buildings or facilities using potable water, shall be utilized or occupied until all cross-connection testing and final inspection requirements have been performed and passed.

Any use site receiving recycled water and potable water shall be required to successfully pass routine follow-up inspection cross-connection testing in order to continue to receive potable and recycled water service.

For sites adjacent to recycled water use sites, cross-connection testing and site inspections may be required by LPVCWD on a case-by-case basis to ensure the protection of the public water supply and public health.

7.3.1 Schedule

LPVCWD will inspect annually and inspect and test every fourth year each site utilizing recycled water and potable water for compliance with LPVCWD, State, and County regulations regarding use of recycled water on-site. Sites with public exposure will be tested more frequently. The typical duration of the cross-connection shutdown testing is as follows:

Cross-Connection Test	Typical Shutdown Duration
Recycled Water Irrigation System	2 hours, including pressure test
Potable Water Used for Irrigation	2 to 4 hours
Potable Water Used for Domestic	1 hour; (positive pressure check if approved by SWRCB-DDW)
Potable Water Fire Protection	Pressure Gauge Check

Any site that fails to meet the required inspection and testing schedule established by LPVCWD for sixty (60) consecutive calendar days will be subject to recycled water service termination if the delay is a result of lack of cooperation or coordination of the owner or their representatives.

Any recycled water site where recycled water service has been discontinued for a period of thirty (30) consecutive calendar days or that fails to meet the previous required inspection and testing schedule established by LPVCWD will be required to perform an inspection and cross connection testing prior to and in conjunction with regular service start-up. No recycled water shall be utilized on-site without the testing being performed.

7.3.2 Procedures

Sections 6.7 (“On-site Testing”) and Section 6.8 (“Cross-Connection Testing”) of these Rules and Regs are non-inclusive lists of standard inspection procedures. LPVCWD reserves the right to add to or alter testing procedures as necessary. Testing will review all on-site point of connections to verify proper identification and proper backflow protection with current test report as required by LPVCWD and SWRCB DDW.

7.4 RECYCLED WATER IRRIGATION SYSTEM MAINTENANCE REPORT

The on-site supervisor or his representative, using the form within the Appendix, shall assess the on-site irrigation system annually to ensure full compliance to all current Rules and Regs regarding the use of recycled water. The on-site supervisor or his or her representative of the use site shall maintain records for the annual assessment during the routine inspection and testing by LPVCWD and keep them on file for LPVCWD review upon request. If the forms are not available for LPVCWD review upon request, LPVCWD may terminate the recycled water service and reconnection fees will apply to restore recycled water service.

SECTION 8

VIOLATIONS AND ENFORCEMENT

8.1 DETERMINATION

LPVCWD reserves the right to determine whether a violation of the Rules and Regs has resulted from any action and/or occurrence that is the responsibility of the customer. Insofar as violation of the Rules and Regs constitutes violation of a regulatory agency requirement, LPVCWD makes its determination on behalf of the concerned agency(s). However, this determination and any consequential penalties levied by LPVCWD do not affect the authority of applicable regulatory agency(s) to levy their own penalties.

8.2 VIOLATIONS

Violations shall include those actions and/or occurrences that directly cause non-compliance with any one of the specific operational limitations as listed in the Rules and Regs, such as runoff conditions, ponding conditions, direct and windblown overspray conditions, unapproved uses, disposal in unapproved areas, cross connections, unprotected drinking fountains, unprotected public facilities, hose bibs, fire hydrants, and hours of operation. However, by definition, noncompliance with any condition or conditions of the Rules and Regulations or Use Permit, whether willfully or by accident, shall constitute a violation. Customer reporting requirements in the event of a violation are outlined in Section 4.5 (Reporting) of these Rules and Regulations.

8.3 CORRECTIVE ACTION

Any person, firm, corporation, association, or agency found to be violating any provision of the Rules and Regs or the terms and conditions of the Use Permit, or applicable State or local statutes, regulations, ordinances, or other requirements shall be served by LPVCWD with written notice stating the nature of the violation and providing a reasonable time limit for the satisfactory correction thereof. The offender shall, within the period of time stated in such notice, permanently cease all violations. This provision is in addition to and does not in any manner limit any other remedies or procedures available to LPVCWD by law, regulation, or pursuant to any of the provisions of the Rules and Regs.

8.4 PENALTIES PRIOR TO ISSUANCE OF THE USE PERMIT

8.4.1 *Existing Potable Water Service Being Converted to Recycled Water Use*

If after one hundred and eighty (180) consecutive calendar days from the date of LPVCWD's final determination notice, the prospective customer has not completed required onsite retrofit construction work, then, in addition to any other penalties set forth in the Rules and Regs, LPVCWD may impose a penalty as established by the LPVCWD Board of Directors. If imposed, this penalty will be included in the customer's monthly billing, and will persist until remedy is achieved by the customer to LPVCWD's satisfaction. A customer may appeal any penalty imposed under this section by filing a written appeal to the LPVCWD's General Manager within thirty (30) days of receiving notice of imposition of that penalty.

The hearing on that appeal will take place at a regularly scheduled Board of Directors' meeting occurring within sixty (60) days after receipt of the appeal.

8.4.2 *Recycled Water Service Temporarily Using Potable Water*

Where recycled water is available in offsite facilities, and where temporary use of potable water has been approved by LPVCWD for a recycled water service, if after thirty (30) consecutive calendar days from the date of LPVCWD's corrective action notice, the prospective customer has not completed required onsite facility corrective actions and achieved compliance, then, in addition to any other penalties set forth in the Rules and Regulations, LPVCWD may impose a penalty as determined by the LPVCWD Board of Directors. Such penalty will be imposed on the service requiring compliance, will be included in the customer's monthly billing for that service, and will persist until remedy is achieved by the customer to LPVCWD's satisfaction. A customer may appeal any penalty imposed under this section by filing a written appeal to the LPVCWD's General Manager within thirty (30) days of receiving notice of imposition of that penalty. The hearing on that appeal will take place at a regularly scheduled Board of Directors' meeting occurring within sixty (60) days after receipt of the appeal.

8.4.3 *Penalty for Lack of Inspection During Installation*

Any work not inspected by LPVCWD shall be required to be exposed for LPVCWD inspection, at the owner's expense. Failure to comply with this requirement will result in termination of potable and/or recycled water. Reconnection fees to restore such terminated service shall apply. Service shall only be restored when, in the opinion of LPVCWD, the inspection requirements have been met.

8.5 PENALTIES AFTER ISSUANCE OF THE USE PERMIT

Failure to permanently cease all violations within the time stated shall result in revocation of the Use Permit by LPVCWD and termination of recycled water service.

8.6 APPEAL

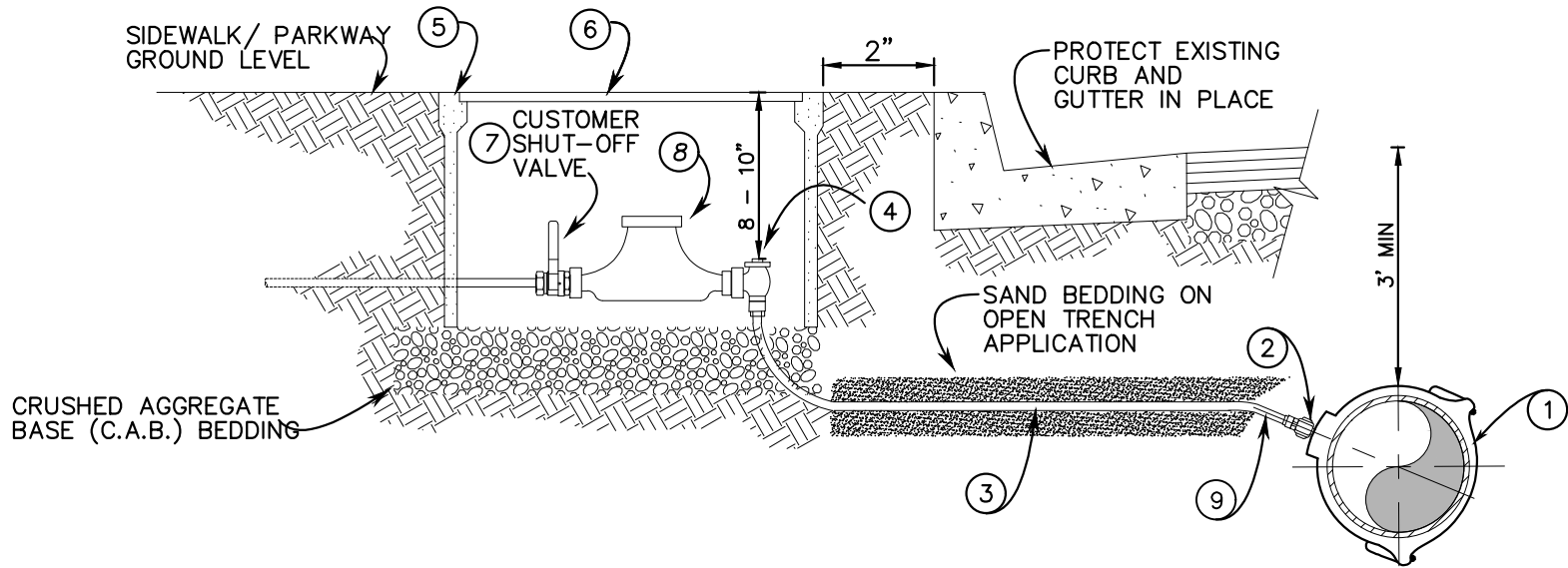
The customer may appeal the determination of LPVCWD to LPVCWD's Board of Directors. Such appeal must be presented in writing to the General Manager for presentation to the Board at one of its regular meetings to occur within sixty (60) days of the date the appeal was received by the General Manager. The appeal shall state the conditions that have been determined to be a violation and the customer's opinion to the contrary. The action of the Board of Directors shall be final.

8.7 SERVICE RECONNECTION

Any request to reestablish service subsequent to the revocation of a permit and the termination of water, sewer, and/or recycled water service shall be in the manner prescribed for initially obtaining service from LPVCWD, which may include the collection of a security deposit. However, in addition, LPVCWD may, in its discretion, require that an agreement including any special conditions and financial security conditioned upon compliance with LPVCWD's Rules and Regs be provided in an amount, manner, and for a period of time as determined by the Board.

SECTION 9
STANDARD DETAIL DRAWINGS

NOT TO SCALE



CONSTRUCTION NOTES:

1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 24" OF VALVE, COUPLING, JOINT OR FITTING. TAPPED COUPLINGS ARE NOT PERMITTED.
2. INSTALL CORPORATION STOP IN OPEN POSITION.
3. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATERMAIN TO THE ANGLE STOP.
4. METER BOXES SHALL BE SET 2" FROM THE BACK OF CURB
5. EACH METER SHALL HAVE A CUSTOMER SHUT OFF VALVE.
6. METER BOX AND LID SHALL BE FURNISHED BY CONTRACTOR.
7. INSTALL #12 GAUGE TRACER WIRE ALONG WITH ALL PEX TUBING.

MATERIALS

ITEM NO.	SIZE & DESCRIPTION	MANUFACTURER	SPEC NO.
①	DOUBLE STRAP BRONZE SERVICE SADDLE 1" M.I.P. OUTLET	JONES MUELLER	J-979 BR2B
②	1" BRONZE CORPORATION VALVE BALL TYPE M.I.P. x C.T.S.	JONES MUELLER	E-1935SG EQUAL
③	1" "PURPLE" PEX TUBING	MUNICIPEX	SDR9 (CTS)
④	1" ANGLE METER VALVE CTS X METER SWIVEL	JONES MUELLER	E-1963WSG EQUAL
⑤	METER BOX	ARMORCAST	A6001946PC12
⑥	METER LID	NICOR INC	B30NLSCGWAT
⑦	CUSTOMER BALL SHUT-OFF VALVE METER-SWIVEL X F.I.P.	JONES MUELLER	E-1908W EQUAL
⑧	WATER METER (SIZE VARIES)	SUPPLIED BY DISTRICT	
⑨	1" CTS PIPE INSERT	JONES MUELLER	J-2808 M528705

1" RECYCLED SERVICE

APPROVED BY:
 ROY FRAUSTO
 GENERAL MANAGER

DATE



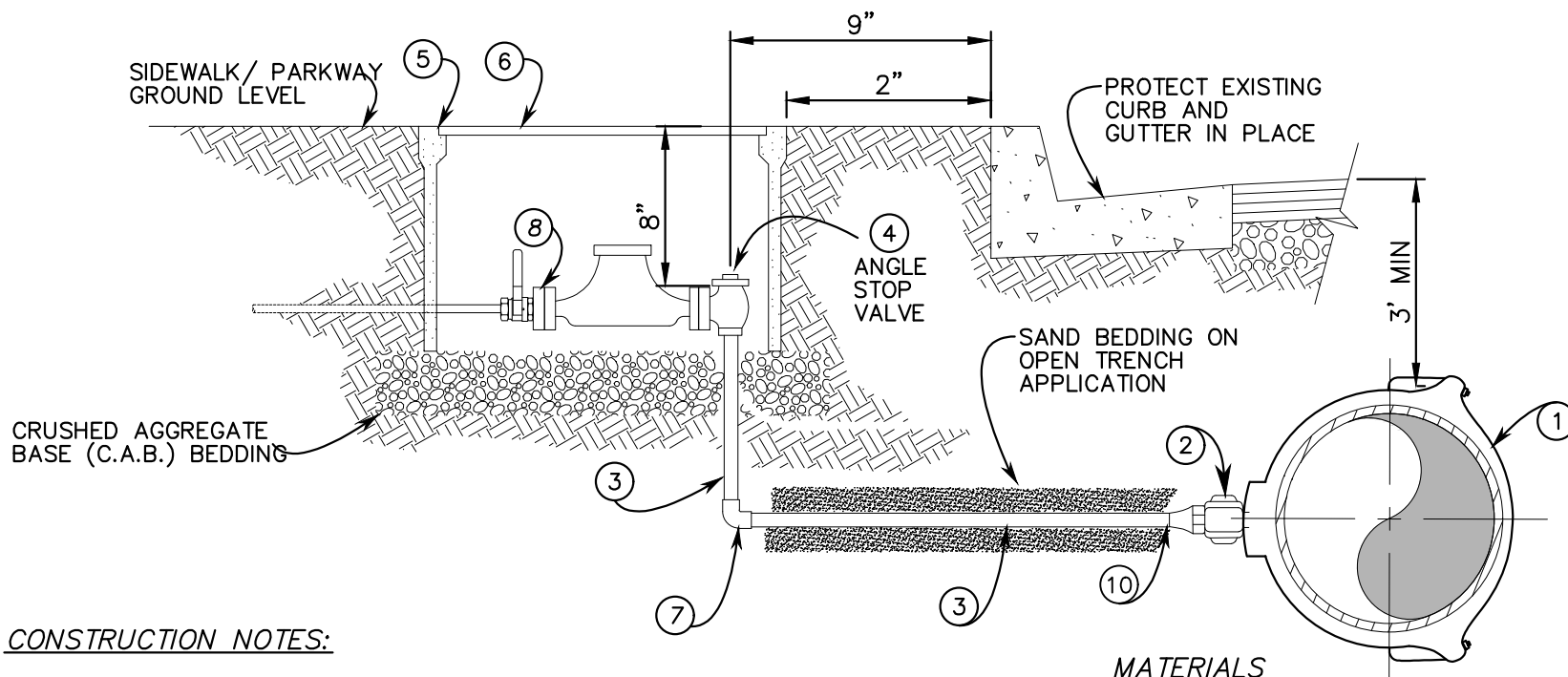
DRAWING #
 W-1R

REVISION DATE:
 MAY
 2021

LA PUENTE VALLEY
 COUNTY WATER DISTRICT

1" RECYCLED
 SERVICE DETAIL

NOT TO SCALE



CONSTRUCTION NOTES:

1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 24" OF VALVE, COUPLING, JOINT OR FITTING. TAPPED COUPLINGS ARE NOT PERMITTED.
2. INSTALL CORPORATION STOP IN OPEN POSITION.
3. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATERMAIN TO THE ANGLE STOP.
4. METER BOXES SHALL BE SET 2" FROM THE BACK OF CURB.
5. EACH METER SHALL HAVE A CUSTOMER SHUT OFF VALVE.
6. METER BOX AND LID SHALL BE FURNISHED BY CONTRACTOR.
7. INSTALL APPROPRIATE REDUCER FOR 1.5" METER SERVICE.
8. INSTALL #12 GAUGE TRACER WIRE ALONG WITH ALL PEX TUBING.

MATERIALS

ITEM NO.	SIZE & DESCRIPTION	MANUFACTURER	SPEC. NO.
①	DOUBLE STRAP BRONZE SERVICE SADDLE 2" I.P. OUTLET	JONES MUELLER	J-979 EQUAL
②	2" BRONZE CORPORATION VALVE BALL TYPE I.P. x CTS	JONES MUELLER	E-1935SG EQUAL
③	2 "PURPLE" PEX TUBING	MUNICIPEX	SDR9 (CTS)
④	2" ANGLE METER VALVE CTS X METER FLG	JONES MUELLER	E-1975WSG EQUAL
⑤	METER BOX	ARMORCAST	A6001640PC12
⑥	METER LID	NICOR INC	B36NLSCGWAT
⑦	2" CTS X CTS 90		
⑧	CUSTOMER BALL SHUT-OFF VALVE F.I.P. X METER FLG	JONES MUELLER	E-1912W EQUAL
⑨	WATER METER (SIZE VARIES)	SUPPLIED BY DISTRICT	
⑩	2" CTS PIPE INSERT	JONES MUELLER	J-2808 M528705

1.5 & 2-INCH RECYCLED SERVICE

APPROVED BY: _____
 ROY FRAUSTO
 GENERAL MANAGER

DATE _____



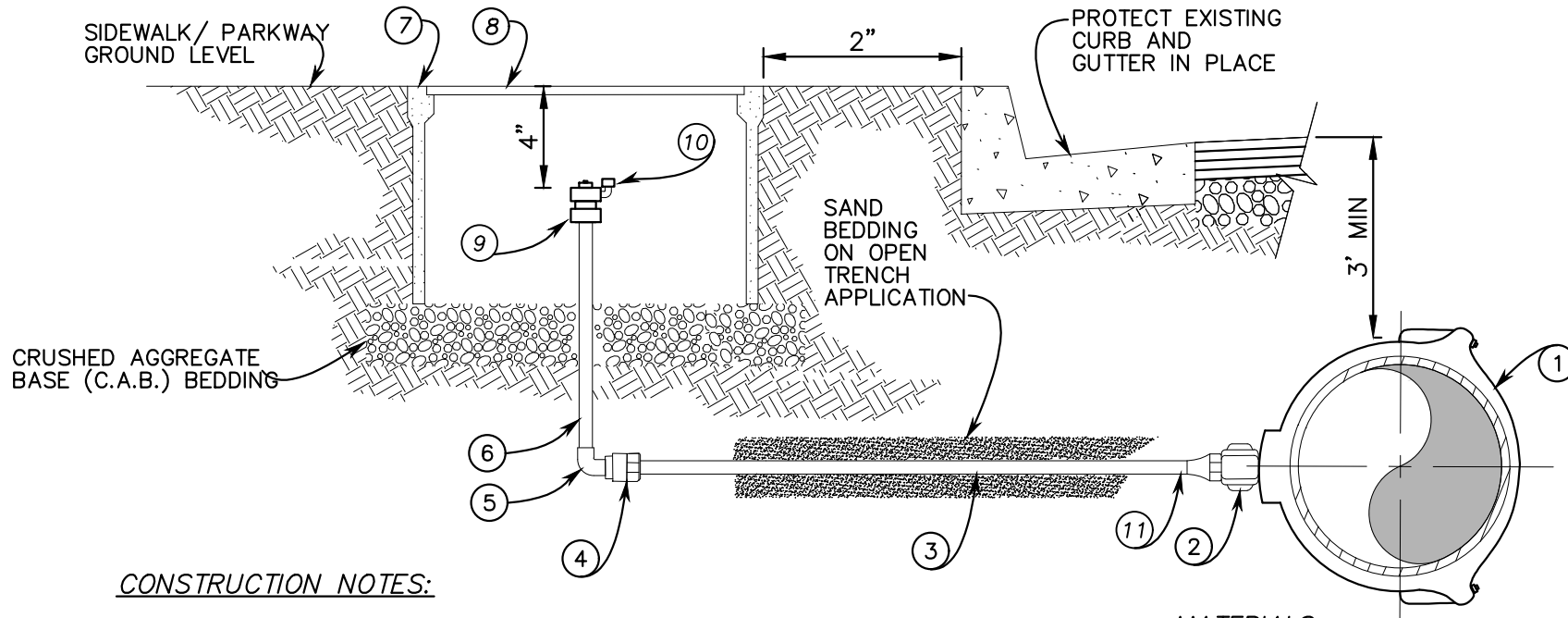
DRAWING #
W-2R

REVISION DATE:
 MAY
 2021

LA PUENTE VALLEY
 COUNTY WATER DISTRICT

1.5" & 2" RECYCLED
 SERVICE DETAIL

NOT TO SCALE



CONSTRUCTION NOTES:

1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 24" OF VALVE, COUPLING, JOINT OR FITTING. TAPPED COUPLINGS ARE NOT PERMITTED.
2. INSTALL CORPORATION STOP IN OPEN POSITION.
3. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATERMAIN TO THE ANGLE STOP.
4. METER BOXES SHALL BE SET 2" FROM THE BACK OF CURB.
5. METER BOX AND LID SHALL BE FURNISHED BY CONTRACTOR.
6. INSTALL #12 GAUGE TRACER WIRE ALONG WITH ALL PEX TUBING.

MATERIALS

ITEM NO.	SIZE & DESCRIPTION	MANUFACTURER	SPEC. NO.
①	DOUBLE STRAP BRONZE SERVICE SADDLE 2" M.I.P. OUTLET	JONES MUELLER	J-979 EQUAL
②	2" BRONZE CORPORATION VALVE BALL TYPE M.I.P. x CTS	JONES MUELLER	E-1935SG EQUAL
③	2 "PURPLE" PEX TUBING	MUNICIPLEX	SDR9 (CTS)
④	2" CTS X M.I.P. BRASS ADAPTER	JONES MUELLER	E-2605SG EQUAL
⑤	2" BRASS F.I.P. X F.I.P. ELBOW		(LENGTH VARIES)
⑥	2" BRASS M.I.P. X M.I.P. NIPPLE		(LENGTH VARIES)
⑦	METER BOX	ARMORCAST	A6001946PC12
⑧	METER LID & COVER	ARMORCAST	A6001866DW & A6000481D
⑨	BLOW-OFF BALL VALVE	JONES MUELLER	E-1998 EQUAL
⑩	2" BRASS SCREWED PLUG WITH M.I.P. THREAD		
⑪	2" CTS PIPE INSERT	JONES MUELLER	J-2808 M528705

2-INCH RECYCLED BLOW-OFF ASSEMBLY

APPROVED BY:
 ROY FRAUSTO
 GENERAL MANAGER

DATE



DRAWING #
W-3R

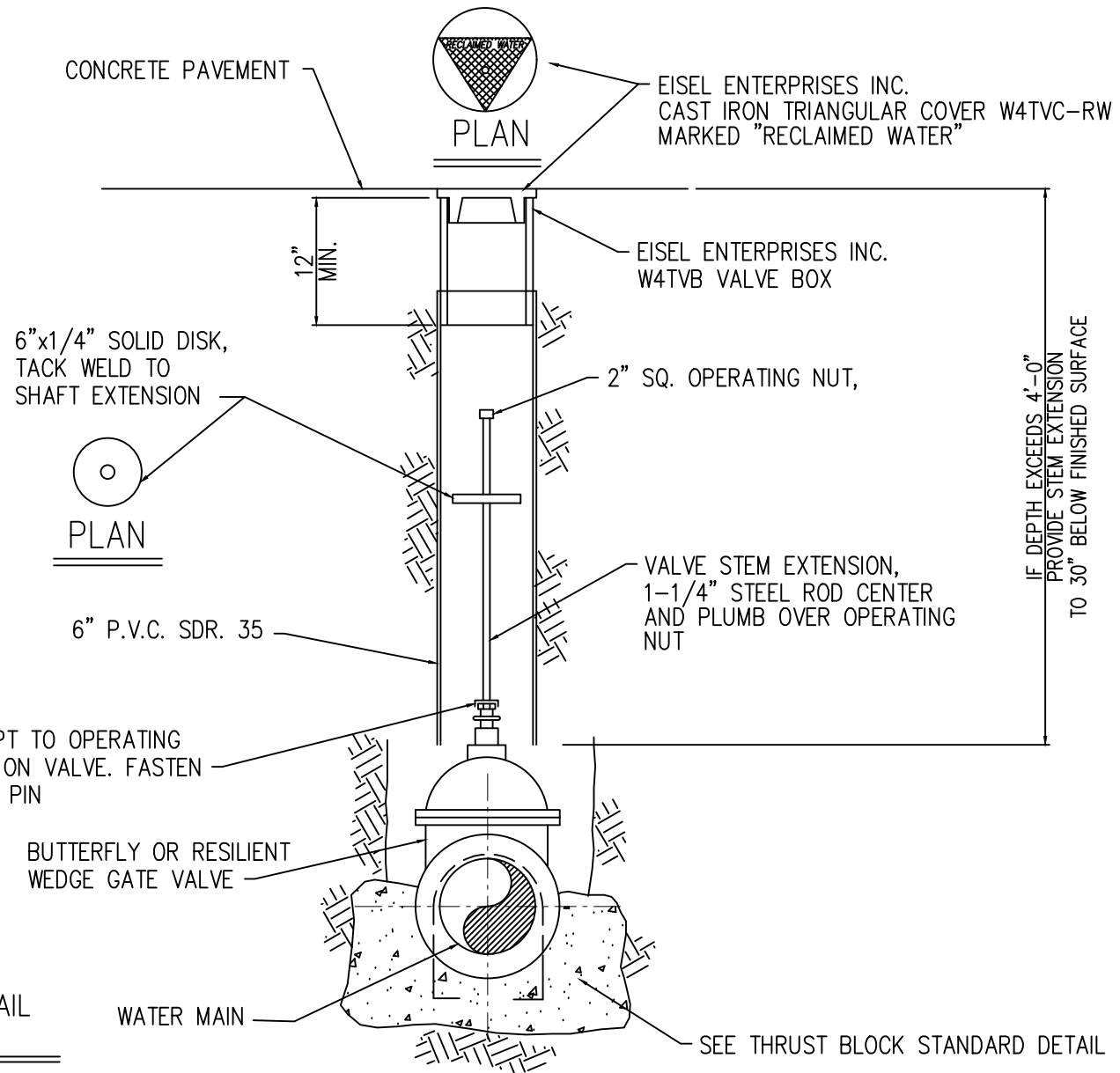
REVISION DATE:
 MAY
 2021

LA PUENTE VALLEY
 COUNTY WATER DISTRICT

2" RECYCLED
 BLOW-OFF ASSEMBLY

1
 OF 1

NOT TO SCALE



VALVE BOX AND COVER DETAIL FOR RECYCLED WATER

NOT TO SCALE

APPROVED BY:

ROY FRAUSTO
GENERAL MANAGER

DATE



DRAWING #

W-6R

REVISION DATE:

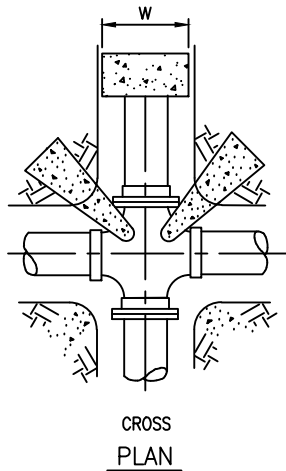
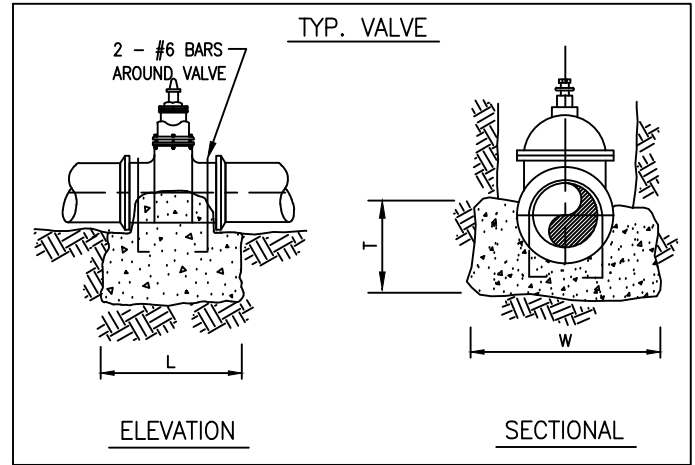
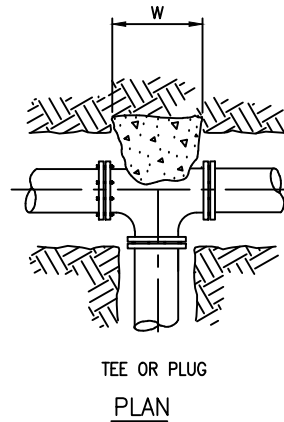
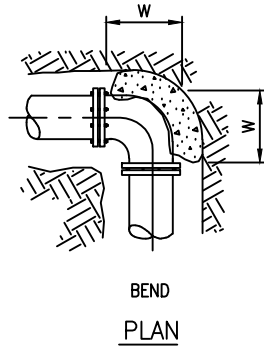
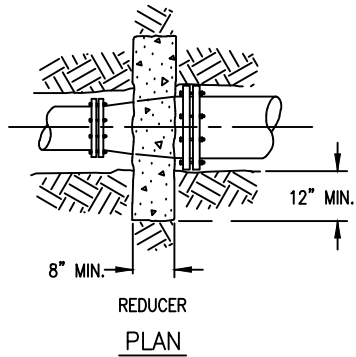
MAY
2021

LA PUENTE VALLEY
COUNTY WATER DISTRICT

VALVE BOX AND COVER
FOR RECYCLED WATER

1
OF 1

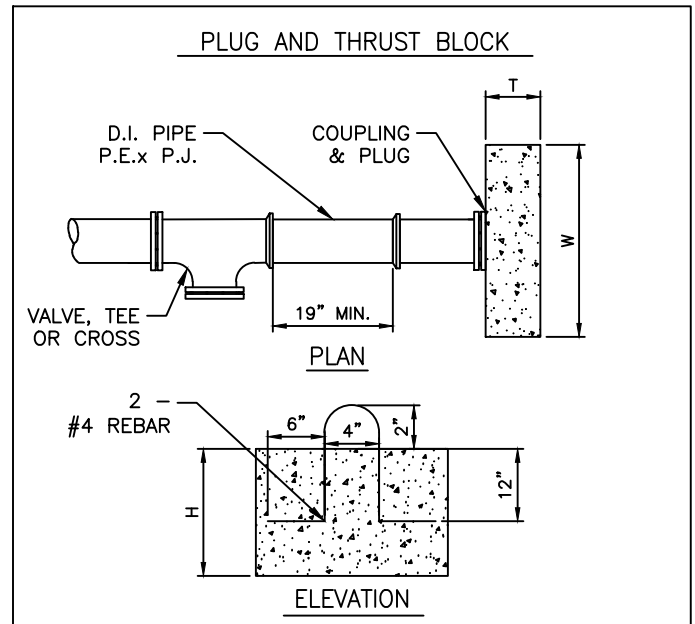
NOT TO SCALE



VALVE AND PIPE SIZE	(L) LENGTH	(W) WIDTH	(T) THICKNESS
6"	2'	2'-0"	12"
8"	3'	2'-2"	14"
10"	3'	2'-4"	14"
12"	4'	2'-6"	15"
14"	5'	3'-0"	20"
16"	6'	3'-6"	24"

NOTES:

1. THRUST BLOCKS MUST BEAR ON UNDISTURBED SOIL.
2. CONCRETE FOR THRUST & ANCHOR BLOCKS SHALL BE OF CLASS 480-C-2000 IN ACCORDANCE WITH S.S.P.W.C. IT SHALL BE POURED (12" THICK MIN.) AGAINST UNDISTURBED SOIL. P.C.C. SHALL BE KEPT CLEAR OF PIPE & BELL OF THE FITTINGS.
3. WHEN MECHANICAL JOINTS ARE UTILIZED, SET FORMS TO SEPARATE BOLTS FROM P.C.C. TO ASSURE ACCESS TO BOLTS & JOINTS.
4. TEST PRESSURE IN THE PIPE SHALL BE 150 PSI.



CONCRETE THRUST BLOCK DETAIL
NOT TO SCALE

APPROVED BY:

ROY FRAUSTO
GENERAL MANAGER

DATE



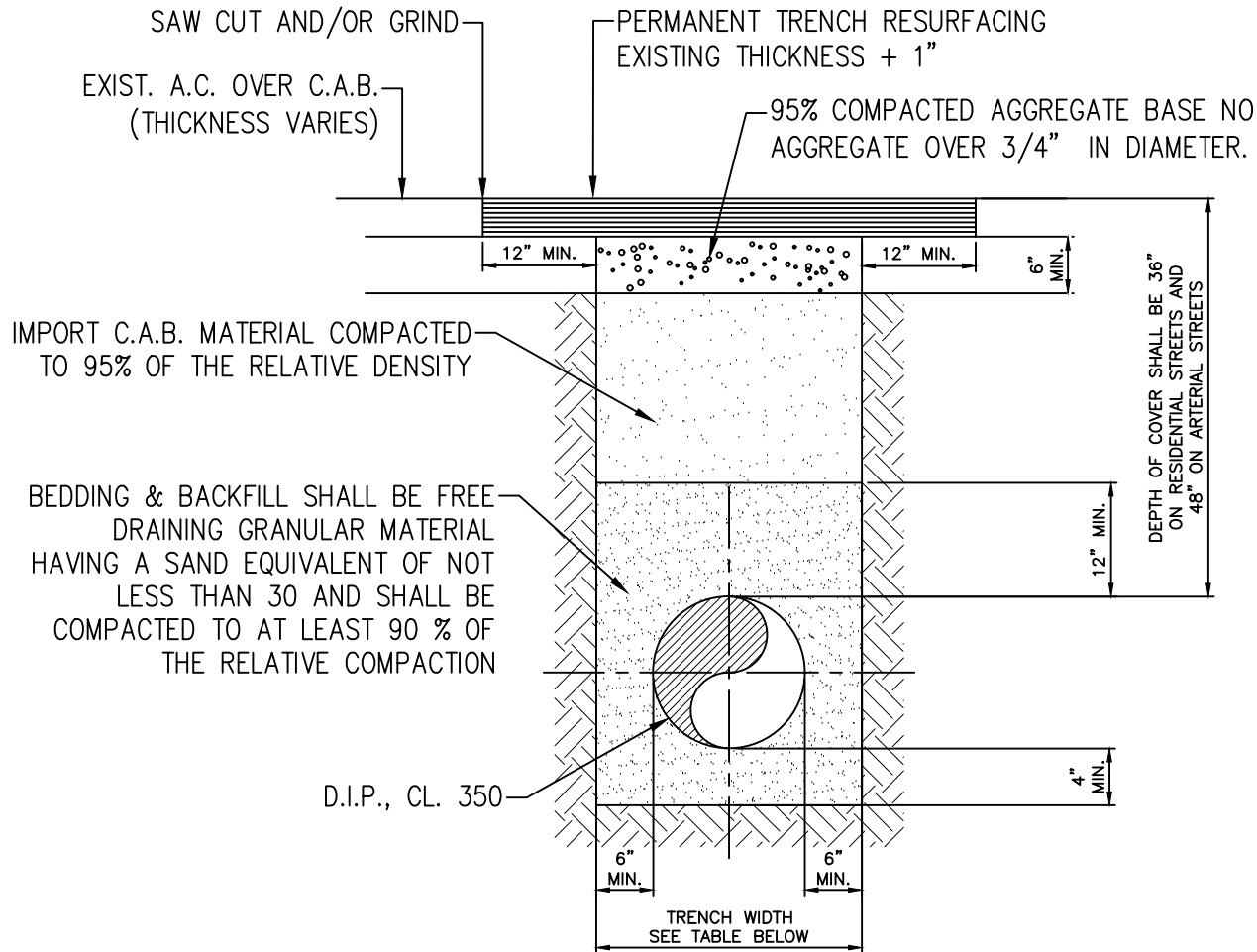
DRAWING #
W-7

REVISION DATE:
MAY
2021

LA PUENTE VALLEY
COUNTY WATER DISTRICT

CONCRETE THRUST
BLOCKS

NOT TO SCALE



PIPE SIZE	4"	6"	8"	10"	12"	16"	20"	24"	30"
MAXIMUM ALLOWED TRENCH WIDTH	20"	20"	20"	22"	24"	28"	32"	36"	42"

NOTES:

- PERMANENT TRENCH RESURFACING SHALL CONSIST OF AN ASPHALT CONCRETE SURFACE COURSE OF TYPE C2-AR-4000 1½" THICK PLACED ON AN ASPHALT CONCRETE BASE OF TYPE B-AR-4000
- SAW CUTS SHALL BE 1½" DEEP. IF THE SAW CUT IS WITHIN 3' OF A PREVIOUS PARALLEL SAW CUT OF 3' OR GREATER IN LENGTH OR A CONCRETE EDGE, THE EXISTING PAVEMENT SHALL BE REMOVED TO SAID SAW CUT OR CONCRETE EDGE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- THE WIDTH OF P.C.C. PAVEMENT REPLACEMENT SHALL BE A MINIMUM OF 10' WIDE AN/OR TO THE NEAREST CONSTRUCTION JOINT WITH #4 DOWELS EPOXIED @ 12" O.C.
- ANY TUNNELING UNDER EXISTING CURB AND GUTTER OR CROSS GUTTER SHALL REQUIRE A SLURRY BACKFILL TO THE SATISFACTION OF THE INSPECTOR.

TYPICAL TRENCH DETAIL

APPROVED BY:
 ROY FRAUSTO
 GENERAL MANAGER

DATE



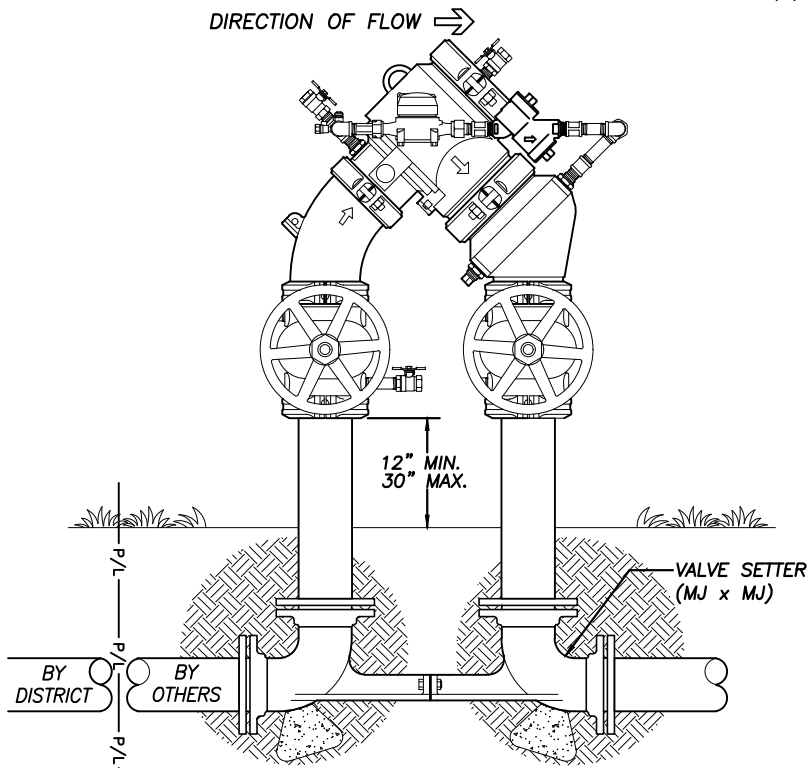
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 W-8

REVISION DATE:
 MAY
 2021

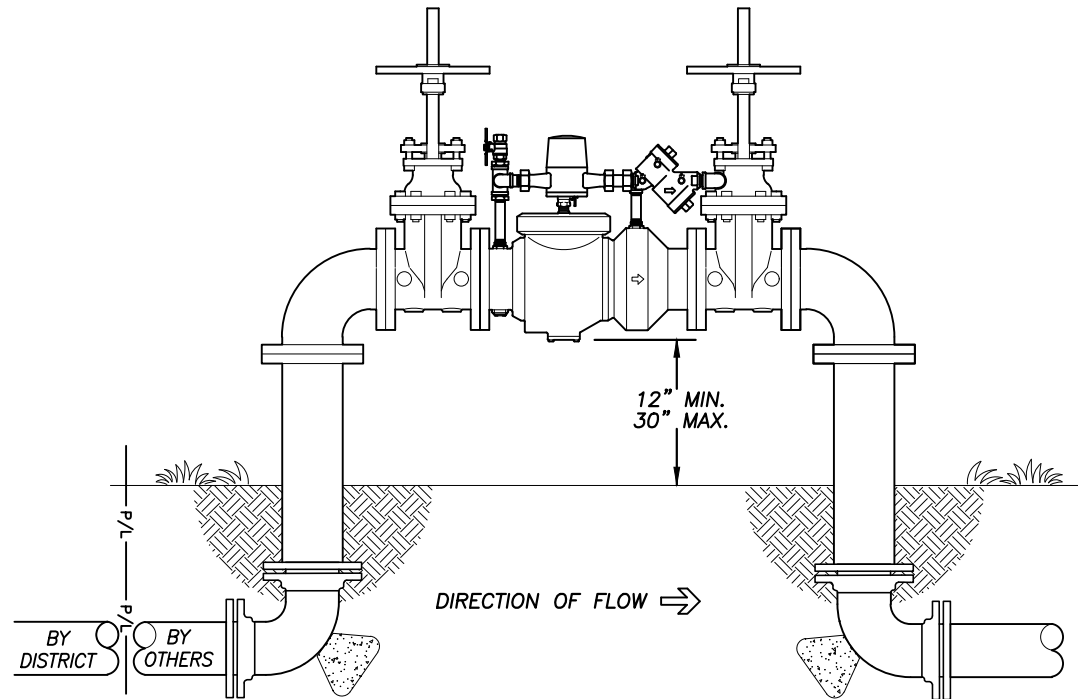
LA PUENTE VALLEY
 COUNTY WATER DISTRICT

TYPICAL TRENCH
 DETAIL

NOT TO SCALE



TYP. VERTICAL INSTALLATION



TYP. HORIZONTAL INSTALLATION

CONSTRUCTION NOTES:

1. THE ASSEMBLY SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE PROPERTY LINE WITHIN THE CUSTOMER'S PROPERTY. LA PUENTE VALLEY COUNTY WATER DISTRICT HAS JURISDICTION OVER THE INSTALLATION LOCATION OF THE DCDA.
2. PROTECTIVE LOCKABLE ENCLOSURE REQUIRED ON ASSEMBLIES 2" AND SMALLER. MUST MEET CLEARANCE, ACCESS AND DRAINAGE REQUIREMENTS.
3. THERE SHALL BE NO VALVE, TAP, TEE OR SERVICE CONNECTION BETWEEN THE POINT OF CONNECTION AND THE ASSEMBLY.
4. MINIMUM OF 12" CLEARANCE FOR TEST COCKS, AND MINIMUM 12" TO A MAXIMUM OF 30" CLEARANCE FROM THE FIRST COMPONENT OF THE ASSEMBLY TO THE GROUND.
5. THE ASSEMBLY MUST BE A USC APPROVED BACKFLOW PREVENTION DEVICE AND MUST BE ACCESSIBLE FOR TESTING AND REPAIR.
6. THE ASSEMBLY MUST BE TESTED BY A CERTIFIED BACKFLOW PREVENTION TESTER WITHIN 30 DAYS OF THE INSTALL DATE AND ANNUALLY THEREAFTER.
7. ANY DEVIATION FROM THE METHOD DESCRIBED ABOVE MUST RECEIVE WRITTEN APPROVAL FROM THE DISTRICT PRIOR TO INSTALLATION.
8. BELOW GRADE ELBOWS SHALL BE RESTRAINED MECHANICAL JOINTS WITH THRUST BLOCKS (TYP)

DOUBLE CHECK DETECTOR ASSEMBLY

APPROVED BY:

ROY FRAUSTO
GENERAL MANAGER

DATE



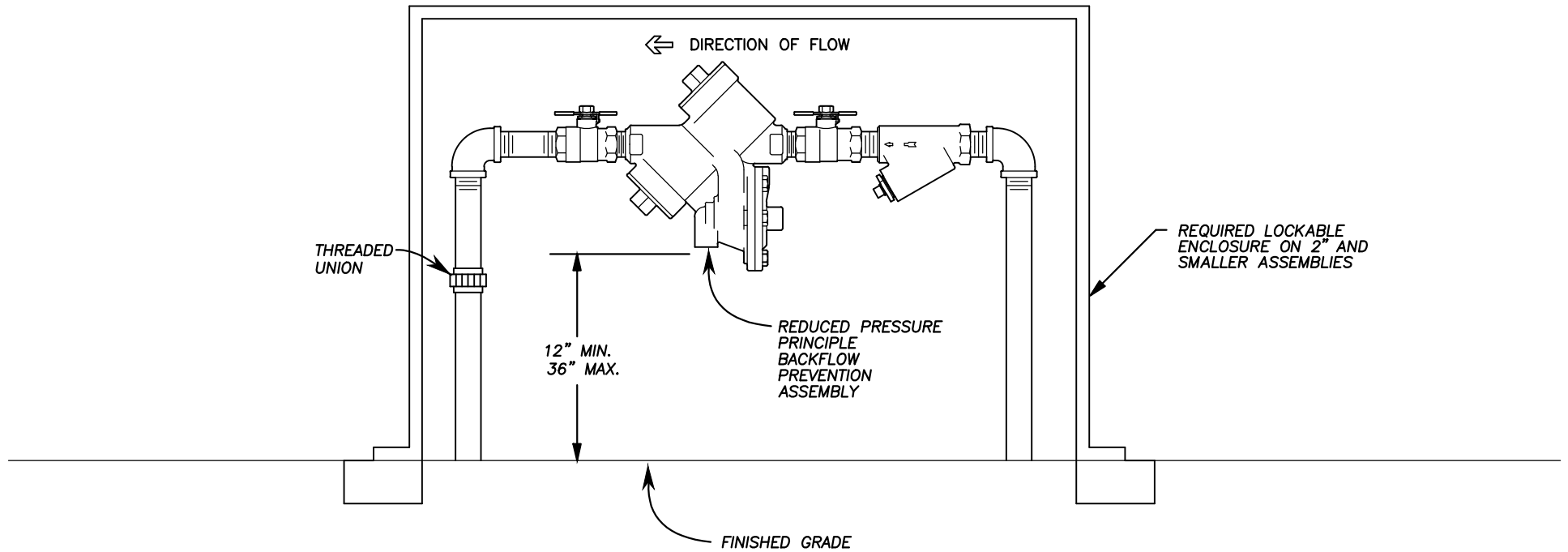
DRAWING #
W-10

REVISION DATE:
MAY 2021

LA PUENTE VALLEY
COUNTY WATER DISTRICT

DOUBLE CHECK DETECTOR
ASSEMBLY BACKFLOW
DETAIL

NOT TO SCALE



CONSTRUCTION NOTES:

1. THE ASSEMBLY SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE WATER METER WITHIN CUSTOMER'S PROPERTY. ALLOW SUFFICIENT ROOM BETWEEN ASSEMBLY AND PROPERTY LINE FOR INSTALLATION OF LOCKABLE ENCLOSURE.
2. LOCKABLE ENCLOSURE REQUIRED ON ASSEMBLIES 2" AND SMALLER. ENCLOSURE MUST MEET CLEARANCE, ACCESS AND DRAINAGE REQUIREMENTS.
3. THERE SHALL BE NO VALVE, TAP, TEE OR SERVICE CONNECTION BETWEEN THE METER AND THE ASSEMBLY.
4. MINIMUM OF 12" CLEARANCE FOR TEST COCKS, AND MINIMUM 12" TO A MAXIMUM OF 36" CLEARANCE FROM BOTTOM OF THE RELIEF VALVE TO GROUND.
5. ASSEMBLY TYPE AND LOCATION REQUIRES APPROVAL BY LA PUENTE VALLEY COUNTY WATER DISTRICT PRIOR TO INSTALLATION. ASSEMBLY MUST BE ACCESSIBLE FOR TESTING AND REPAIR.
6. THE ASSEMBLY MUST BE TESTED BY A CERTIFIED BACKFLOW PREVENTION TESTER WITHIN 30 DAYS OF THE INSTALL DATE AND ANNUALLY THEREAFTER.
7. ANY DEVIATION FROM THE METHOD DESCRIBED ABOVE MUST RECEIVE WRITTEN APPROVAL FROM THE DISTRICT PRIOR TO INSTALLATION.

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY

APPROVED BY:

ROY FRAUSTO
GENERAL MANAGER

DATE



DRAWING #
W-11

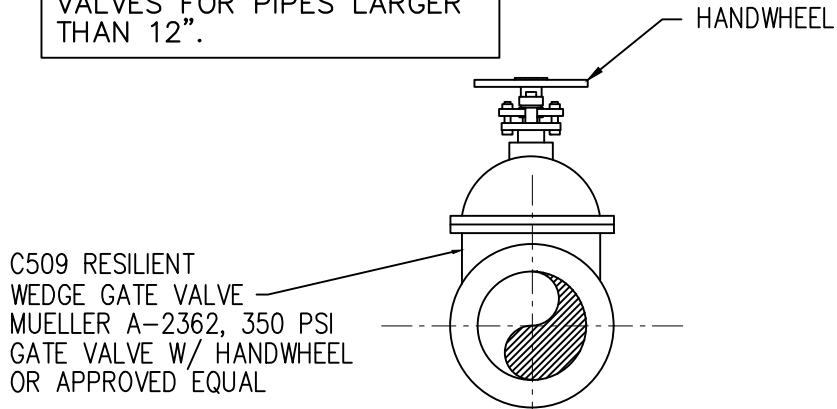
REVISION DATE:
MAY 2021

*LA PUENTE VALLEY
COUNTY WATER DISTRICT*

*REDUCED PRESSURE PRINCIPLE
BACKFLOW DETAIL*

NOT TO SCALE

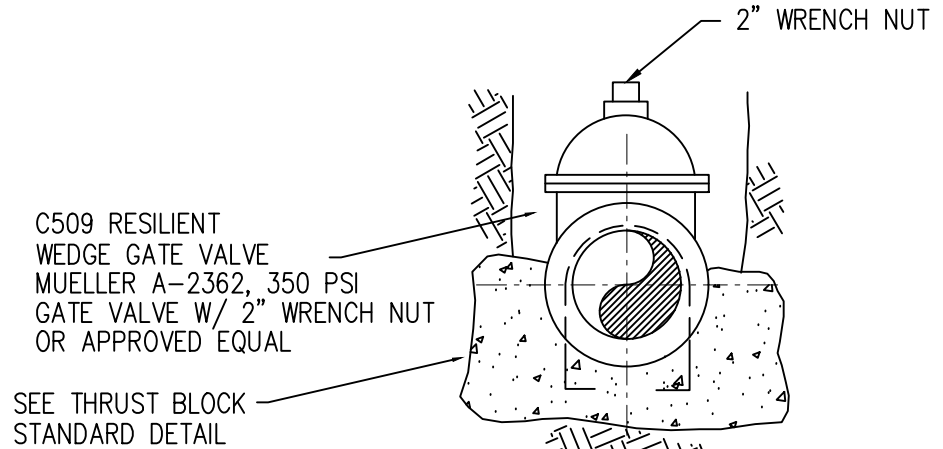
NOTE: USE GATE VALVES FOR PIPES 12" AND SMALLER. USE BUTTERFLY VALVES FOR PIPES LARGER THAN 12".



C509 RESILIENT WEDGE GATE VALVE MUELLER A-2362, 350 PSI GATE VALVE W/ HANDWHEEL OR APPROVED EQUAL

ABOVE GROUND GATE VALVE APPLICATIONS

NOT TO SCALE

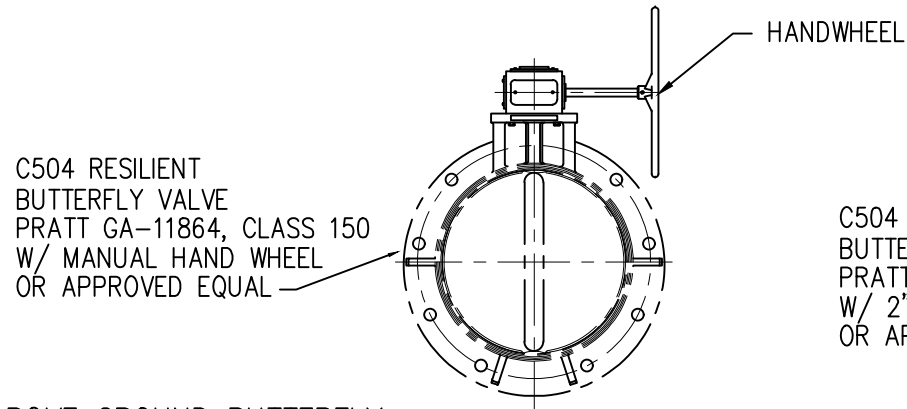


C509 RESILIENT WEDGE GATE VALVE MUELLER A-2362, 350 PSI GATE VALVE W/ 2" WRENCH NUT OR APPROVED EQUAL

SEE THRUST BLOCK STANDARD DETAIL

BURIED GATE VALVE APPLICATIONS

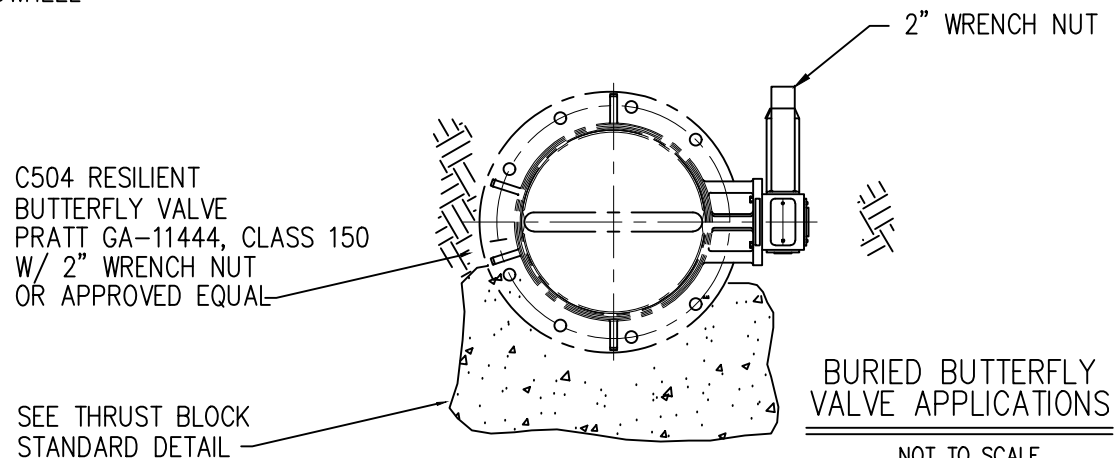
NOT TO SCALE



C504 RESILIENT BUTTERFLY VALVE PRATT GA-11864, CLASS 150 W/ MANUAL HAND WHEEL OR APPROVED EQUAL

ABOVE GROUND BUTTERFLY VALVE APPLICATIONS

NOT TO SCALE



C504 RESILIENT BUTTERFLY VALVE PRATT GA-11444, CLASS 150 W/ 2" WRENCH NUT OR APPROVED EQUAL

SEE THRUST BLOCK STANDARD DETAIL

BURIED BUTTERFLY VALVE APPLICATIONS

NOT TO SCALE

APPROVED BY:

ROY FRAUSTO
GENERAL MANAGER

DATE



DRAWING #
W-12

REVISION DATE:
MAY
2021

LA PUENTE VALLEY
COUNTY WATER DISTRICT

GATE AND BUTTERFLY
VALVE STANDARD DETAIL



Appendix A
SAMPLE Preliminary Determination Notice

Willia R. Rojas
President

Henry P. Hernandez
Vice President

David E. Argudo
Director



John P. Escalera
Director

Cesar J. Barajas
Director

Roy Frausto
General Manager

112 N First St. / P.O. Box 3136
La Puente, CA 91744
(626) 330-2126 – Fax (626) 330-2679
www.lapuentewater.com

Date

Address

RE: NOTICE OF PRELIMINARY DETERMINATION FOR RECYCLED WATER USE

Dear Customer:

The La Puente Valley County Water District (LPVCWD) has constructed a recycled water distribution system to reuse highly treated wastewater for irrigation purposes. Recycled water customers receive a 5 percent discount on our irrigation water rate and a reliable water source during drought times.

LPVCWD’s goal is to serve as many sites that are economically reasonable within the vicinity of the existing recycled water distribution system. These sites can include golf courses, parks, school campuses, homeowner association greenbelts, arterial slopes, street medians, and highway landscaping. To reach this goal, LPVCWD will need to convert existing sites from potable water to recycled water use. LPVCWD has identified the following site(s) owned by you that are candidates for conversion:

ADDRESS	ACCOUNT #	METER #	METER LOCATION

In the near future, as LPVCWD prepares to construct facilities that will convey recycled water to your site(s), a Notice of Final Determination will be sent to you. From that date, you will have 180 days to complete your site construction work and be prepared to receive recycled water supply.

LPVCWD employees are available to perform an on-site walkthrough and provide a punch list for on-site mitigation to be performed by the owner to meet minimum conversion requirements. Typical conversion mitigation includes the following retrofit work: removing the backflow device and potable water meter; providing identification of recycled water use by branding valve boxes, tagging valves, and tagging perimeter sprinkler heads; changing quick couplers; and checking for overspray and cross- connections with the potable water system.

Your support and cooperation during the conversion process is greatly appreciated. With your help, the District's recycled water system will be a success. Please contact the Recycled Water Cross Connection Specialist, at (626) 330-2126, for any additional information about the conversion process and to obtain a conversion schedule for your future sites.

Sincerely,

La Puente Valley County Water District
Roy Frausto
General Manager



Appendix B
SAMPLE Final Determination Notice

Willia R. Rojas
President

Henry P. Hernandez
Vice President

David E. Argudo
Director



John P. Escalera
Director

Cesar J. Barajas
Director

Roy Frausto
General Manager

112 N First St. / P.O. Box 3136
La Puente, CA 91744
(626) 330-2126 – Fax (626) 330-2679
www.lapuentewater.com

Date

Address

RE: NOTICE OF FINAL DETERMINATION FOR RECYCLED WATER USE

Dear Customer:

The La Puente Valley County Water District (LPVCWD) has constructed a recycled water distribution system to reuse highly treated wastewater for irrigation purposes. A Notice of Preliminary Determination was submitted to you some months ago, whereby you were notified that one or more of your irrigation sites were candidates for conversion from potable water to recycled water use. Construction is now proceeding on LPVCWD facilities that will convey recycled water to your site(s).

Accordingly, LPVCWD has identified the following site(s) owned by you that need to be converted to recycled water use within the next 180 days:

ADDRESS	ACCOUNT #	METER #	METER LOCATION

More of your sites may need to be converted to use recycled water in the future. You have the option of converting both the future sites and the sites listed in the table now, or you may wait until you receive notice for the future sites.

LPVCWD employees will be performing inspections at various stages of the on-site retrofit work associated with your conversion mitigation. You will be contacted in the next several weeks to initiate this process.

Your support and cooperation during the conversion process is greatly appreciated. With your help, LPVCWD's recycled water system will be a success. Please contact the Recycled Water Cross Connection Specialist, at (626) 330-2126, for any additional information about the conversion process and loan, and to obtain a conversion schedule for your future sites.

Sincerely,

La Puente Valley County Water District
Roy Frausto
General Manager



Appendix C
Checklist/Action Request Form for Obtaining
Recycled Water Service



**CHECKLIST / ACTION REQUEST FORM
FOR OBTAINING RECYCLED WATER SERVICE**

Owner/Customer: _____ Use site: _____

Account #: _____ Parcel or Lot #: _____

Project Name: _____ Specific Action Requested: _____

Location/ Cross Streets: _____

New Construction: _____ Retrofit: _____ Conversion: _____

Completed

- _____ 1. Applicant submits a preliminary package and plan to LPVCWD.
- _____ 2. LPVCWD reviews for approval the preliminary package and plan.
- _____ 3. Preliminary approval granted, customer proceeds with project, plan, and Use Permit submittals.
- _____ 4. LPVCWD reviews plans.
- _____ 5. The applicant submits to LPVCWD: completed irrigation plans for construction or retrofit; work schedule for construction or conversion; and required fees.
- _____ 6. LPVCWD approves and signs plans, Complete Application (Appendix 5).
- _____ 7. LPVCWD requests SWRCB-DDW approval.
- _____ 8. SWRCB-DDW approval granted.
- _____ 9. Applicant/owner has operator (installation contractor/maintenance contractor) complete operation certification (Use Permit) and submits form to LPVCWD (Appendix 6).
- _____ 10. Onsite pre-construction meeting date (applicant begins construction/retrofit of onsite facilities.)
- _____ 11. LPVCWD issues recycled water Use Permit. (Copies issued to owner and onsite supervisor.)
- _____ 12. Potable water backflow prevention devices installed and tested (if applicable prior to water service activation).
- _____ 13. Applicant submits redline construction set of record drawings to LPVCWD for review.
- _____ 14. Applicant has a final set of record drawings prepared/submits all required documents to LPVCWD.
- _____ 15. Applicant requests final inspection by LPVCWD.
- _____ 16. LPVCWD performs final inspection, operational testing, and cross-connection testing.
- _____ 17. Recycled water meter is installed.
- _____ 18. LPVCWD grants final approval for recycled water service; LPVCWD completes User Permit. Submit copies to LACDPH.

HOW TO USE THIS FORM: This form can be used by the applicant, LPVCWD, and SWRCB-DDW to request specific action or items needed to complete the process for obtaining recycled water service. Complete each step in the sequence shown. Make sure the form is dated and initials included as each item is completed. This checklist keeps all entities informed of the application process and the steps remaining to provide recycled water service.



Appendix D
Recycled Water Service Application



RECYCLED WATER SERVICE APPLICATION

OWNER/CUSTOMER NAME: _____

ADDRESS: _____

CONTACT PERSON: _____ TITLE: _____

TELEPHONE: _____ FAX: _____ E-MAIL: _____

PROJECT/USE SITE NAME: _____

PROJECT/USE SITE ADDRESS OR LOCATION: _____

TRACT NO _____ PARCEL/LOT NO. _____

NEAREST ARTERIAL STREET NAMES: _____

LANDSCAPE ARCHITECT/ENGINEER NAME: _____

ADDRESS: _____

CONTACT PERSON: _____ TITLE: _____

TELEPHONE: _____ FAX: _____ E-MAIL: _____

THIS WILL BE A: NEW SYSTEM CONVERTED SYSTEM RETROFITTED SYSTEM

TYPE OF USE (CHECK ONE):

- | | | |
|---|---|---|
| <input type="checkbox"/> NURSERY/SOD CROPS | <input type="checkbox"/> LANDSCAPE-MISC | <input type="checkbox"/> PLAYGROUND/PARKS |
| <input type="checkbox"/> COMMERCIAL | <input type="checkbox"/> CEMETERIES | <input type="checkbox"/> SCHOOL YARDS |
| <input type="checkbox"/> GROUNDWATER RECHARGE | <input type="checkbox"/> FREEWAY/HIGHWAY | <input type="checkbox"/> ONSITE PLANT USE |
| <input type="checkbox"/> INDUSTRIAL-MISCELLANEOUS | <input type="checkbox"/> GOLF COURSES | <input type="checkbox"/> RECREATION |
| <input type="checkbox"/> INDUSTRIAL-COOLING WATER | <input type="checkbox"/> SLOPES, GREEN BELTS | <input type="checkbox"/> WILD HABITAT |
| <input type="checkbox"/> CONSTRUCTION | <input type="checkbox"/> IMPOUNDMENTS/FOUNTAINS | |
| <input type="checkbox"/> OTHER: _____ | | |

SPECIAL CONDITIONS: _____

PLEASE INCLUDE THE FOLLOWING ITEMS ON ALL PLANS:

- POTABLE/RECYCLED WATER MAINLINE AND VALVE LOCATIONS
- ALL SEWER FACILITIES
- ALL ON-SITE POTABLE, FIRE, AND RECYCLED WATER LINES
- BUILDINGS
- SPECIFIC RECYCLED WATER USE AREAS
- EQUIPMENT LEGENDS
- SPECIFIC NON-POTABLE WATER USE AREAS
- LOCATION OF ALL WELLS
- LOCATION OF ALL WATER FEATURES
- LOCATION OF ALL STREAMS/WATER BODIES
- LOCATION OF DRINKING FOUNTAINS AND RESTROOMS
- LPVCWD SIGNATURE BLOCK
- SHOW HARDSCAPE (WALLS, FENCING, DRAINAGE DEVICES)
- LPVCWD STANDARD DETAIL DRAWINGS
- SHOW ALL PLAY AREAS AND EQUIPMENT, BALL FIELD LAYOUTS AND COURTS
- DESIGNATE ALL EXTERIOR EATING AREAS, INCLUDING TABLES, BENCHES AND BBQ'S
- LOCATIONS AND DESCRIPTIONS OF ALL BACKFLOW PREVENTION DEVICES
- LOCATION AND SIZE OF ALL SERVICE CONNECTIONS AND METERS, INCLUDING FIRE
- SHOW ALL FIRE HYDRANTS AND ALL FIRE PROTECTION FACILITIES
- SPECIFICALLY STATE ON THE PLANS IF THERE IS NO POTABLE WATER ON THE SITE

PLEASE ALSO INCLUDE A SITE LOCATION AND VICINITY MAPS.

I, THE APPLICANT HAVE READ AND UNDERSTAND THE LPVCWD RULES AND REGULATIONS FOR RECYCLED WATER AND AGREE TO RESTRICT RECYCLED WATER USE FOR THE PURPOSES DESCRIBED IN THIS APPLICATION. I AGREE TO USE RECYCLED WATER IN ACCORDANCE WITH THE REGULATIONS AND ALL OTHER APPLICABLE DOCUMENTS. I UNDERSTAND THAT RECYCLED WATER MAY NOT BE COMPATIBLE WITH CERTAIN TYPES OF VEGETATION BECAUSE OF ITS COMPOSITION. I AGREE THAT LPVCWD WILL NOT BE LIABLE FOR DAMAGES THAT MAY OCCUR TO VEGETATION OR FOR DAMAGES THAT MAY OCCUR DUE TO USES OF RECYCLED WATER. I HEREBY ACKNOWLEDGE AND CONSENT TO LPVCWD'S USE AT ITS OPTION OF RECYCLED WATER IN LIEU OF POTABLE WATER FOR THE PURPOSES HEREIN MENTIONED IN ACCORDANCE WITH THE REGULATIONS OF LPVCWD.

Applicant's Name: _____ Title: _____

Applicant's Signature: _____ Date: _____



Appendix E
Recycled Water Use Permit



RECYCLED WATER USE PERMIT

USE SITE NUMBER: _____ ACCOUNT NO: _____ METER NO: _____
(Completed by District)

USE SITE NAME: _____

USE SITE ADDRESS OR LOCATION: _____

NEAREST ARTERIAL STREET NAMES: _____

OWNER/CUSTOMER NAME: _____

ADDRESS: _____

CONTACT PERSON: _____ TITLE: _____

TELEPHONE NO: _____ FAX NO: _____ E-MAIL: _____

PROPERTY MANAGEMENT COMPANY: _____

ADDRESS: _____

CONTACT PERSON: _____ TITLE: _____

TELEPHONE NO: _____ FAX NO: _____ E-MAIL: _____

SPECIAL CONDITIONS: _____

Under penalty of perjury, I, the owner/customer swear that I have read and understand the LPVCWD Rules and Regulations for Recycled Water and agree to restrict recycled water use for the purposes described in this permit. I agree to use recycled water in accordance with the Regulations and all other applicable documents. I understand that recycled water may not be compatible with certain types of vegetation because of its composition. I agree that LPVCWD will not be liable for damages that may occur to vegetation or for damages that may occur due to uses of recycled water. I hereby acknowledge and consent to LPVCWD's use at its option of recycled water in lieu of potable water for the purposes herein mentioned in accordance with the Regulations of LPVCWD.

Owner/Customer's Signature: _____ Date: _____

MAINTENANCE COMPANY NAME: _____
 ADDRESS: _____
 ONSITE SUPERVISOR'S NAME: _____ TITLE: _____
 TELEPHONE NO: _____ FAX NO _____ E-MAIL: _____
 AFTER HOURS TELEPHONE NO: _____

I have reviewed the LPVCWD Rules and Regulations for Recycled Water and certify that the operation and documentation of this recycled water system and other on-site water systems will be in accordance with all applicable requirements contained therein, including certification of the on-site supervisor, who is directly responsible for the education and training of all employees under his control and of any individuals performing work at a use site under his control.

Onsite Supervisor's Signature: _____ Date: _____

LPVCWD USE ONLY

I certify the recycled water system described above and the certification of the on-site supervisor who's name is shown above is in accordance with all applicable requirements contained in LPVCWD Regulations for Recycled Water.

Name: _____ Title: _____

Signature: _____ Date: _____

**COPY OF USE PERMIT ISSUED TO OWNER/RESPONSIBLE
 PARTY, ON-SITE SUPERVISOR**

<i>OWNER/RESPONSIBLE PARTY</i>	<i>ON-SITE SUPERVISOR</i>
DATE:	DATE:
BY: <input type="checkbox"/> MAIL	BY: <input type="checkbox"/> MAIL
<input type="checkbox"/> FAX	<input type="checkbox"/> FAX
<input type="checkbox"/> E-MAIL	<input type="checkbox"/> E-MAIL
<input type="checkbox"/> IN PERSON	<input type="checkbox"/> IN PERSON



Appendix F
Recycled Water Testing Form



**RECYCLED WATER TESTING FROM /
AGUA RECICLADA**

On-site Testing and Maintenance Report / Prueba y Mantenimiento Del Lugar

Owner / Dueño:		Phone / Teléfono #:	
Address / Domicilio:		Fax #:	
Date of Test:	Time of Test		
	From:	To:	
Association / Asociacion:		Phone / Teléfono #:	
Address / Domicilio:		Fax #:	
Account #:	Use Site #:	Identification Letter:	
Maintenance Contractor:		Phone#:	
Onsite Supervisor:		Fax #:	
Address:			
Site Location:			
Two Major Cross Streets:			
1. Controller Operational	12. Moisture Sensors Operational		
2. Hours of Operation	13. RW Identification Tags Attached		
3. Strainer Operational	14. All Valve Box Lids Branded		
4. Master Valve Operational	15. All Valve Box Lids Bolted Down		
5. Flow Sensor Operational	16. RW Identification Sign On Site		
6. Booster Pump Operational	17. Backflows Operational		
7. Pressure Regulator Operational	18. Drinking Fountains Protected		
8. PSI Static/Dynamic	19. Potable Identification Tags Attached		
9. Fertilizer Injector Operational	20. Any Cross Connections		
10. Quick Couplers Operational	21. Approximate Temperature		
11. QC Identification Tags Attached	22. Approximate Wind Speed		
Repairs or Adjustments Performed:			
Print name of person performing test:			
Signature of person performing test:			



Appendix G
Recycled Water Spill Report



RECYCLED WATER SPILL REPORT

USE SITE NUMBER: _____ ACCOUNT NO: _____ METER NO: _____
(Completed by LPVCWD)

USE SITE NAME: _____

USE SITE ADDRESS OR LOCATION: _____

OWNER/CUSTOMER NAME: _____

ADDRESS: _____

CONTACT PERSON: _____ TITLE: _____

TELEPHONE NO: _____ FAX NO: _____ E-MAIL: _____

ON-SITE SUPERVISOR: _____

INFORMATION ON SPILL OR UNAUTHORIZED DISCHARGE

Date/time spill or discharge began: _____

Date/time spill or discharge ended: _____

Location of spill or discharge: _____

Did recycled water enter or will it enter storm drains or receiving waters (e.g., creek, stream, lake);
_____ If so identify: _____

Estimated volume of spill or discharge: _____

Estimated time of repair: _____

If still ongoing, estimate flow rate (gallons/minute): _____

Agencies/entities involved with repair and/or clean-up: _____

Cause of the spill or discharge: _____

Corrective actions taken and when, or plan to correct spill/discharge: _____



Appendix H
On-Site Supervisor Do's and Don'ts



ON-SITE SUPERVISOR DO'S AND DON'TS

DO'S

- Educate/train operations personnel on the safe use and restrictions of recycled water.
- Install and maintain signs at all points of entry (pedestrian and vehicular).
- Install and maintain labels and tags on recycled, potable, and non-potable water systems.
- Use quick couplers instead of hose bibs on recycled water systems.
- Operate irrigation system:
 - Between 10:00 p.m. and 6:00 a.m., if automatically controlled (unless other restrictions apply);
 - At other times, if manually controlled and supervised (someone present) to make sure the recycled water does not come in contact with the public;
 - At any time, if public access to the reuse site is restricted.
- Prevent runoff from reuse sites due to over-spray from sprinklers, overflow of ponds that contain recycled water, over watering, or broken sprinklers or irrigation lines.
- Quickly repair any breaks in recycled water irrigation lines and broken sprinklers.
- Be familiar with all notification requirements if any of the following has occurred:
 - A recycled water line break, spill or offsite discharge of recycled water;
 - A noncompliance of the LPVCWD's Requirements or Use Permit;
 - A cross-connection between the recycled water and potable water;
 - Any safety or health issues.
- Schedule all required backflow prevention and cross-connection testing.
- Assist and cooperate during periodic backflow prevention and cross-connection testing.
- Assist and cooperate during periodic site inspections conducted by the LPVCWD.
- Thoroughly wash tools used for the recycled water system if used for the potable water system.
- Contact the LPVCWD if any water system (recycled or potable) modifications are anticipated.
- Keep records and as-built drawings up-to-date and accessible.
- Submit all required information and maintenance reports.

DON'TS

- Don't drink recycled water.
- Don't use recycled water to wash hands or any other part of body.
- Don't remove recycled water identification signs, tags or labels.
- Don't cross-connect two dissimilar water systems (recycled or potable).
- Don't allow recycled water to contact drinking fountains or eating areas.
- Don't allow recycled water to pond or puddle.
- Don't allow recycled water to runoff the use site property or either overspray or overwater.
- Don't use recycled water on an unapproved site.
- Don't put hose bibs on recycled water systems (unless approved by the LPVCWD and public access is restricted).
- Don't use the same equipment on both recycled water and domestic water systems (for example: quick couplers, hoses, tools, etc.).
- Don't significantly modify the recycled or potable water systems without prior approval of the LPVCWD and/or SWRCB-DDW.



RESOLUTION NO. 284

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE LA PUENTE VALLEY COUNTY WATER DISTRICT
ADOPTING RULES AND REGULATIONS GOVERNING
RECYCLED WATER SERVICE**

WHEREAS, the Board of Directors of the La Puente Valley County Water District (the “District”) previously adopted Resolution No. 239 on April 25, 2016 to establish the mandatory use of recycled water in the District’s service area; and

WHEREAS, Resolution No. 239 also set forth various requirements for the District with respect to its implementation of recycled water service; and

WHEREAS, Resolution No. 239 requires the District to establish and maintain a comprehensive set of rules and regulations governing the distribution and use of the recycled water the District will provide; and

WHEREAS, the District is progressing in the construction of its recycled water system and will have that system completed within the next few months; and

WHEREAS, the District’s Board of Directors finds and determines that it is now appropriate to adopt the Rules and Regulations Governing Recycled Water Service within the District,

NOW, THEREFORE, THE BOARD OF DIRECTORS OF LA PUENTE VALLEY COUNTY WATER DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. Adoption of Rules and Regulations Governing Recycled Water Service. The Board of Directors hereby adopts the Rules and Regulations Governing Recycled Water Service in the form presented to the Board and attached hereto as Exhibit A, which are fully incorporated into this resolution by this reference.

Section 3. Direction to Staff. District staff is directed to promptly implement the Rules and Regulations Governing Water Service and to take all steps to enforce those Rules and Regulations as necessary.

Section 4. Effective Date of Resolution. This Resolution shall take effect immediately upon its adoption and shall remain effective until further action is taken by the Board of Directors.

PASSED AND ADOPTED by the Board of Directors of La Puente Valley County Water District this 25th day of July, 2022, by the following vote:

AYES:

NOES:

ABSENT: None

ABSTAIN: None

William R. Rojas
President of the Board

ATTEST:

Roy Frausto
Board Secretary

Memo



To: Honorable Board of Directors
From: Roy Frausto, General Manager
Date: July 25, 2022
Re: District Logo

As discussed last month on June 27, 2022, during the regular meeting of the Board of Directors, below is the updated logo that now incorporates the comments received.

STANDARD LOGO



100 YEAR ANNIVERSARY LOGO



RECYCLED WATER LOGO



