DURHAM IRRIGATION DISTRICT
Meeting Agenda
Board of Directors:
Matt Doyle, Chair; Kevin Phillips, Treasurer; Derek Sohnrey

Tuesday, October 15, 2024
5:30 PM

District Office
9418-C Midway
Durham CA 95938

COPY OF AGENDA and AGENDA PACKET AVAILABLE FROM:
Durham Irrigation District Office or Online at www.didwater.org

ADDRESSING THE BOARD

- Any person desiring to address the Board shall first secure permission of the presiding officer.
- Matters under the jurisdiction of the Board and not on the Agenda may be addressed by the Public at the time provided in the Agenda under Public Comment. The Board limits testimony on those items to three minutes per person and no more than three individuals shall address the same subject.
- As required by Govt. Code Section 54957.5, any public record distributed to the Board of Directors less than 72 hours prior to this meeting in connection with any agenda item shall be made available for public inspection at the Durham Irrigation District office, 9418-C Midway, Durham, CA 95938. Public records distributed during the meeting will be available for public inspection at the meeting if prepared by the District. If the public record is prepared by any other party and distributed at the meeting, it will be made available for public inspection following the meeting at the District.
- Parties with a disability as provided by the Americans with Disabilities Act who require special accommodations or aides to participate in the public meeting should make the request to the District office three full business days prior to the meeting at (530) 343-1594.

1 CALL TO ORDER – 5:30 PM

2 ROLL CALL / OPENING BUSINESS

2.1 AGENDA APPROVAL, ADDITIONS AND/OR DELETIONS

2.2 PUBLIC COMMENT

Members of the public wishing to address the Board on items not listed on the Agenda:
The Durham Irrigation District Board of Directors may take official action only on items included in the posted agenda for a specific scheduled meeting.

Items addressed during the Public Comment section are generally matters not included on the agenda and therefore, the Board will not take action at this scheduled meeting. However, such items may be put on the agenda for a future meeting. The public shall have the opportunity to address items that are on the posted agenda.

Speakers shall be limited to three minutes each.

3 CORRESPONDENCE – NONE

4 PRESENTATIONS

4.1 VINA GSA Presentation – Budget, Projects, and the Future (Dillon Raney, Vina GSA Program Development Manager)
SUBJECT: Status report on Vina GSA.
FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.
ATTACHMENTS:
4.1 VINA GSA GRANT PROJECT HIGHLIGHTS

5 REPORTS/ANNOUNCEMENTS FROM DIRECTORS

5.1 VINA GSA REPORT (Vina GSA Calendar here: https://www.vinagsa.org/calendar)
SUBJECT: Status report on Vina GSA.
FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.

6 PUBLIC HEARINGS - NONE

These matters are scheduled at the time stated and will be heard by the Board as close to the time stated as possible.

7 INFORMATION/CONSENT CALENDAR

All items listed under the Consent Agenda are considered to be routine and will be enacted by one motion unless an item is removed. Resolutions will be read by title only.
There will be no separate discussion of these items unless members of the Board, or persons in the audience, request specific items to be removed from the Consent Agenda to the Regular Agenda for separate discussion, prior to the time the Board votes on the motion to adopt the Consent Agenda. If any item(s) are removed from the Consent Agenda, the item(s) will be considered immediately following action on the Consent Agenda.

7.1 Warrant Sheet from September 13, 2024 to October 12, 2024, including payments, deposits, and transaction adjustments.
SUBJECT: Approve payments, deposits, and transaction adjustments.
FISCAL IMPACT: See attachments.
ACTION REQUESTED: APPROVE
ATTACHMENTS:
7.1.1 WARRANT SHEET
7.1.2 FINANCIALS
7.1.3 BOARD RECAP, WATER SALES AND AR AGING REPORT

7.2 Board of Directors Meeting Minutes for September 17, 2024.
SUBJECT: Approve draft minutes.
FISCAL IMPACT: NONE.
ACTION REQUESTED: APPROVE
ATTACHMENTS:
7.2 SEPTEMBER 17, 2024 BOARD MINUTES

8 DISTRICT ENGINEER REPORT

8.1 Brown-Faber Pipeline Replacement

SUBJECT: Segments of the Brown-Faber Pipeline are in poor condition and need to be replaced as emergency repair work.
FISCAL IMPACT: TK
ACTION REQUESTED: TK

8.2 CIP Update

SUBJECT: District Engineer to report on changes to the CIP adopted at the June 2024 board meeting.
FISCAL IMPACT: NONE
ACTION REQUESTED: Adopt revised Final CIP.
ATTACHMENTS:
8.2 CAPITAL IMPROVEMENT PROGRAM FINAL UPDATE (09.2024)

8.3 Capacity Fees

SUBJECT: District Engineer to report on financing schedule and plan for the Capacity Fee/Prop 218 Process.
FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.

8.4 USBR Grant-Funded Meter Replacement and Lead Service Laterals Assessment Project

SUBJECT: USBR Grant reimbursement update.
FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.

8.5 Water Quality Testing Results – PFAS

SUBJECT: Review of the water quality testing results for PFAS constituents as well as routine monthly water quality testing results.
FISCAL IMPACT: $0
ACTION REQUESTED: Discussion of testing results and next steps.
ATTACHMENTS:
8.5A DURHAM IRRIGATION DISTRICT PFAS TESTING (09.27.2024)
8.5B DURHAM IRRIGATION DISTRICT ROUTINE TESTING RESULTS (09.23.2024)

9 DISTRICT OUTREACH REPORT (NON-ACTION ITEMS)

SUBJECT: Report by Nicole Johansson on the following areas: (a) community outreach, (b) funding opportunities, (c) legislative outreach, and (d) management responsibilities, including mass notification system.
FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.
ATTACHMENTS:
9 COST SUMMARY TO DATE

10 WATER OPERATOR REPORT (NON-ACTION ITEMS)

SUBJECT: Report by water operator on previous month's activities.
FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.
ATTACHMENTS:
10A WATER OPERATOR LOG FOR SEPTEMBER 2024
10B WORK ORDER STATUS REPORT FOR OCTOBER 2024

11 DISTRICT COUNSEL REPORT (NON-ACTION ITEMS)

SUBJECT: Verbal report by counsel on district-related activities. *See also regular agenda.*

12 REGULAR AGENDA

12.1 Consideration of District Bylaws

SUBJECT: Consideration of District Bylaws.
FISCAL IMPACT: NONE
ACTION REQUESTED: Adopt District Bylaws.
ATTACHMENTS: TK.

12.2 Local Hazard Mitigation Plan (LHMP) – Durham Irrigation District Annex J

SUBJECT: Every agency with an Annex and possible funding requests are required to bring a resolution for adoption prior to the 2019 LHMP expiration on November 5, 2024.
FISCAL IMPACT: $0
ACTION REQUESTED: Adopt BUTTE COUNTY LHMP UPDATE - DURHAM IRRIGATION DISTRICT ANNEX J.
ATTACHMENTS:
12.3A BUTTE COUNTY LHMP 2024 UPDATE - DURHAM IRRIGATION DISTRICT ANNEX J (09.2024)
12.3B RESOLUTION 2024-02 (10.15.2024) LHMP 2024 UPDATE 2024 DRAFT

12.3 SDRMA Risk Control Evaluation Report (08.28.204)

SUBJECT: At the District's request, the Special District Risk Management Authority (SDRMA) conducted an on-site risk control evaluation. The attached report is a summary of issues found during that evaluation.
FISCAL IMPACT: $unknown
ACTION REQUESTED: Receive information, discuss and provide direction.
ATTACHMENTS:
12.4 SDRMA Risk Control Evaluation (08.28.204)

13 DIRECTORS' COMMENTS

Opportunity for Board comments on items not listed on the agenda.

14 ADJOURNMENT

Adjourn to the next Regular Board Meeting on November 12, 2024 – note date change to the second Tuesday.

Vina Groundwater Sustainability Agency
Grant Funded Projects
Total Grant Award: $5,535,000
Estimated Completion Date: March 2026

Data Gap Identification and Data Improvement
Implementing Agency: Vina GSA
Aims to enhance the understanding of the Vina subbasin's conditions by installing monitoring sites and equipment, focusing on domestic wells and implementing a Community Monitoring Program, alongside preparing the five-year GSP Periodic Evaluation and engaging with the public through various outreach efforts.
Consultant: Larry Walker Associates
Project Partner: Butte County Water and Resource Conservation
Total Project Budget: $1,070,000

Demand Reduction Strategies
Implementing Agency: Vina GSA
Aims to enhance groundwater sustainability in the Vina Subbasin by reducing consumptive use through extending orchard fallowing periods to reduce evapotranspiration (ET), promote and pilot precision irrigation, ET monitoring, and educational outreach.
Consultant: Geosyntec/LandIQ
Project Partner: Agricultural Groundwater Users of Butte County
Total Project Budget: $2,440,000

Lindo Channel Recharge Feasibility
Implementing Agency: Vina GSA
Aims to conduct feasibility and initial design for enhancing natural recharge along Lindo Channel using Big Chico Creek's excess flows to bolster groundwater for domestic wells and ecosystems through the Chico area, supplemented by monitoring groundwater conditions to assess impacts.
Consultant: Geosyntec/West Yost
Project Partner: City of Chico
Total Project Budget: $330,000

Long-Term Fee Study Project
Implementing Agency: Vina GSA
Aims to develop a sustainable funding mechanism for managing groundwater resources. This ongoing project is actively evaluating various fee structures to ensure fair and equitable contributions from groundwater users, supporting the long-term management and protection of the Vina subbasin's groundwater resources.
Consultant: Hansford Economic Consulting
Total Project Budget: $80,000

Water Supply and Recharge Project
Implementing Agency: Butte County
Evaluates the potential for expanded surface water use for irrigation and the feasibility of a phased groundwater recharge plan in the Vina Subbasin, incorporating previous studies and considering factors like site suitability, water availability, legal aspects, and sustainability goals, aimed at identifying optimal recharge areas and water supply projects.
Consultant: Geosyntec/Water and Land Solutions
Project Partner: Agricultural Groundwater Users of Butte County
Total Project Budget: $725,000

Inter-basin Coordination Analysis and Modeling
Implementing Agency: Butte County
Focuses on analyzing GSPs along the Sacramento River Corridor to support inter-basin coordination, and conducting integrated groundwater-surface water modeling, including refinements to the Butte Basin Groundwater Model. Also includes analysis along the Feather River Corridor funded by the Wyandotte Creek GSA SGM grant.
Consultant: Montgomery and Associates
Total Project Budget: $467,000

Outreach Program
Implementing Agency: Butte County
Will support an Outreach Program by the GSA to communicate subbasin conditions, GSP development and implementation, and to create education and outreach materials that support and encourage public engagement in all other grant funded projects.
Consultants: Raftelis, Spruce Studio
Total Project Budget: $165,000

Grant Administration
Implementing Agency: Butte County
Administration tasks for the overall grant that includes invoicing, quarterly reporting, closeout reporting, and environmental information form(s).
Total Project Budget: $200,000

DURHAM IRRIGATION DISTRICT

Check Issue Date: 10/15/2024

Cash Balance Date 9/30/2024

Check No.	Stmt Date	Invoice Number	Payee	Invoice Amount	Check Amount	Notes	Financial Category	$ 92,819.69
Stipends								
10244	Stipend Form	-	Matt Doyle		$ 100.00	(1) 10/15 DID BOD		$ 92,719.69
10245	Stipend Form	-	Kevin Phillips		$ 100.00	(1) 10/15 DID BOD		$ 92,619.69
10246	Stipend Form	-	Derek Sohnrey		$ 100.00	(1) 10/15 DID BOD		$ 92,519.69
			Subtotal Stipend		**$ 300.00**		**Subtotal Balance**	**$ 92,519.69**
Regular Water System Maintenance and Operations								
10247	9/1/2024	15423	J.C. Hernandez	$ 800.00	$ 1,600.00	August 2024 alley cleanup		$ 90,919.69
	10/1/2024	15483	J.C. Hernandez	$ 800.00		September 2024 alley cleanup		$ 90,919.69
10248	9/23/2024	242807340	Pace Analytical Services LLC	$ 131.40	$ 1,894.40	water quality testing		$ 89,025.29
	9/27/2024	242807502	Pace Analytical Services LLC	$ 1,763.00		water quality testing - PFAS		$ 89,025.29
			Subtotal Water Operations		**$3,494.40**		**Subtotal Balance**	**$ 89,025.29**
Water System Emergency Repair/Replacement								
	NONE							$ 89,025.29
			Subtotal Water System Repair		**$0.00**		**Subtotal Balance**	**$ 89,025.29**

DURHAM IRRIGATION DISTRICT

Check No.	Stmt Date	Invoice Number	Payee	Invoice Amount	Check Amount	Notes	Financial Category
Utility & Supplies							
online debit	9/10/2024	-	Comcast Internet		$ 180.34	9/15/2024 - 10/15/2024 Internet only	$ *88,844.95*
online debit PD 09/25/2024	6/1/2024	204089454	Comcast Phone	$ *274.07*	$ 516.77	06/2024 Phone	$ *88,328.18*
	7/1/2024	209352775	Comcast Phone	$ *77.63*		07/2024 Phone	$ *88,328.18*
	8/1/2024	211850431	Comcast Phone	$ *81.95*		08/2024 Phone	$ *88,328.18*
	9/1/2024	217391455	Comcast Phone	$ *83.12*		09/2024 Phone	$ *88,328.18*
online debit PD 10/01/2024	10/1/2024	219930931	Comcast Phone	$ *104.17*	$ 516.77	10/2024 Phone	$ *87,811.41*
	-	-	Comcast Phone	$ *412.60*		credit resulting from inadvertent duplicate payment of phone bill.	$ *87,811.41*
online debit	9/25/2024	-	FP Mailing Solutions		$ 200.00	postage (online download)	$ *87,611.41*
online debit	9/18/2024	-	Harland Clarke Printing		$ 186.39	District check re-order	$ *87,425.02*
online debit	9/20/2024	2024091301	Paychex		$ 75.10	payroll fees + PTO accrual fee	$ *87,349.92*
online debit	10/4/2024	2024092601	Paychex		$ 75.10	payroll fees + PTO accrual fee	$ *87,274.82*
10249	10/9/2024	-	Camp & McLaughlin		$ 650.00	October rent	$ *86,624.82*
10250	9/26/2024	-	PGE	$ *132.43*	$ 10,231.19	9418 Midway #C (Office)(0596196710-5)	$ *76,393.63*
	9/24/2024	-		$ *3,627.67*		Durham Dayton Rd 20'W (5773099695-6)	$ *76,393.63*
	9/25/2024	-		$ *2,856.98*		Holland Ave E/S & 500S Serviss (6812590736-7)	$ *76,393.63*
	9/26/2024	-		$ *34.45*		Holland Ave S 300' (7938916943-8)	$ *76,393.63*
	9/26/2024	-		$ *3,579.66*		9389 Goodspeed St (9856464057-5)	$ *76,393.63*
online debit	9/11/2024	353478274	Staples		$ 650.03	office supplies; external hard drives for backup	$ *75,743.60*
10251	10/1/2024	460814F9-0048	Streamline		$ 84.00	website host	$ *75,659.60*
10252	10/1/2024	26038	Vista Net, Inc.	$ *14.72*	$ 29.44	October email virus protection	$ *75,630.16*
	10/1/2024	26039	Vista Net, Inc.	$ *14.72*		September email virus protection	$ *75,630.16*
			Subtotal Utility		**$13,395.13**	**Subtotal Balance**	***$ 75,630.16***

DURHAM IRRIGATION DISTRICT

Check No.	Stmt Date	Invoice Number	Payee	Invoice Amount	Check Amount	Notes	Financial Category	
District Administration, Operations & Management								
Payroll & Insurance								
online debit	9/20/2024	-	Withholdings - Trizzino		$ 495.12		$	*75,135.04*
online debit	10/4/2024	-	Withholdings - Trizzino		$ 427.57		$	*74,707.47*
online debit	9/20/2024	-	Employee - Trizzino		$ 1,174.37	Administrative Support	$	*73,533.10*
online debit	10/4/2024	-	Employee - Trizzino		$ 1,012.47	Administrative Support	$	*72,520.63*
Contractors								
10253	10/1/2024	8529	Sheryl Bosman		$ 575.00	Bookkeeping Services	$	*71,945.63*
10254	9/1/2024	1209	Nicole L. Johansson		$ 450.00	August 2024 outreach	$	*71,495.63*
10255	10/8/2024	83142	NorthStar		$ 2,996.50	Brown-Faber Pipeline Replacement - $ 1076 CIP Budget/Rate Study - $ 855.50 DUSD Easement - $ 0 USBR Engineering - $ 240 USBR Cultural Compliance - $ 0 Meetings - $ 575 Operational Support - $ 250 Grant Application Support - $ 0 Litigation - Meetings - $ 0 Litigation - Cost of Service Study - $ 0	$	*68,499.13*
10256	10/1/2024	7005	Prentice Long, PC		$ 1,443.00	Legal Services	$	*67,056.13*
Water Operations								
10257	10/1/2024	6405-746	Sierra Water Utility		$ 3,558.71	Water Operator Services	$	*63,497.42*
			Subtotal Admin. Ops. & Mgmt.		**$12,132.74**		**Subtotal Balance**	***$ 63,497.42***

DURHAM IRRIGATION DISTRICT

Check No.	Stmt Date	Invoice Number	Payee	Invoice Amount	Check Amount	Notes	Financial Category	
Agency Fees, Association Dues & Reimbursables								
Fees & Dues								
online debit	10/2/2024	-	PaySafe/PayStation Fee		$ 461.15	"mtot" on bank statement	$	*63,036.27*
10258	9/12/2024	'APN 039-540-021	Butte County Tax Collector		$ 12.18	Property Taxes - FY2024-2025	$	*63,024.09*
Reimbursable Payments								
NONE							$	*63,024.09*
			Subtotal Fees & Reimbursables		**$473.33**		**Subtotal Balance**	***$ 63,024.09***
Other Expenses								
NONE							$	63,024.09
			Other Expenses		**$0.00**		**Subtotal Balance**	***$ 63,024.09***

Check No.	Stmt Date	Invoice Number	Payee	Invoice Amount	Check Amount	Notes	Financial Category	
Development Projects								
			Contractor			**Project**		
NONE							$	*63,024.09*
			Subtotal Development Projects		**$ -**		**Subtotal Balance**	***$ 63,024.09***
SUBTOTAL PAYMENTS					**$29,795.60**			
							Subtotal Remaining Balance	**$ 63,024.09**
							Check Refund/Cancelled Register Total	$ 168.00
							TOTAL REMAINING BALANCE	**$ 63,192.09**

Petty Cash

10/9/2024	Comcast Gift Card	$	19.66
10/9/2024	Cash on Hand	$	100.01
	Balance Remaining On Hand	**$**	**119.67**

Check / Payment Refund / Cancel or Void Check Register

Date	CK/Pmt Refund	Status	Paid to	Check Amount	Notes
8/20/2024	10215 - VOID	Stop Pmt	Streamline	$ 84.00	check lost in mail
10/15/2024	10259	Reissue	Streamline	$ 84.00	reissue lost CK#10215

Director Signature _____ **Director Signature** _____

Date _____ **Date** _____

DURHAM IRRIGATION DISTRICT

Deposit Register

Date	Deposit		Deposit Amount	Other Notes
5-Sep-24	Cash/Check Deposit		$ 5,300.93	
10-Sep-24	Cash/Check Deposit		$ 5,225.29	
11-Sep-24	Cash/Check Deposit		$ 6,488.61	
16-Sep-24	Cash/Check Deposit		$ 9,025.12	
24-Sep-24	Cash/Check Deposit		$ 5,993.84	
24-Sep-24	Cash/Check Deposit		$ 15.88	EDD Refund - filing period 12/31/2023
30-Sep-24	Cash/Check Deposit		$ 2,039.46	
09/01/2024-09/30/2024	**Paystation Payments**		$ 11,780.55	
	Subtotal Water Sales Deposits		**$ 45,869.68**	*incl. $0 USBR Meter fees separate from above (if any)*
Water Meter Sales	**Location**			
NONE				
Bank Adjustments & Other	**Notes**			
10-Sep-24	Notice of adjustment	*debit*	$ (0.07)	
12-Sep-24	NSF Payment CK810380		$ (62.30)	Customer came in and paid acct in full, plus NSF penalty
3-Sep-24	Stop Payment Fee		$ (34.00)	CK #10219
12-Sep-24	NSF Fee CK810280		$ (10.00)	
12-Sep-24	NSF Payment CK80		$ (65.06)	Customer paid acct in full via credit card, plus NSF penalty
12-Sep-24	NSF Fee CK80		$ (10.00)	
19-Sep-24	Stop Payment Fee		$ (34.00)	CK#10215
	Other		**$ (215.43)**	
	Total Deposits		**$ 45,654.25**	

Deposit Register for Development Projects Account

NONE		
Total Development Project Deposits	$	-

Director Signature _____ **Director Signature** _____

Date _____ **Date** _____

Durham Irrigation District
Balance Sheet
As of September 30, 2024

	Sep 30, 24
ASSETS	
Current Assets	
Checking/Savings	
Current Assets	
Cash	92,819.69
Cash on Hand	400.01
Development Fees	36,660.24
Savings	14,382.82
California CLASS	161,999.72
Total Current Assets	306,262.48
Total Checking/Savings	306,262.48
Other Current Assets	
Taxes Receivable	751.54
A/R	-751.54
Total Other Current Assets	0.00
Total Current Assets	306,262.48
Fixed Assets	
CAPITAL ASSETS	
Depreciable Assets	
Equipment	101,440.80
Mains	623,540.00
Pumps	172,575.00
Structures	16,084.00
Wells	127,486.00
Less Accum. Dep'n	-434,456.00
Total Depreciable Assets	606,669.80
Total CAPITAL ASSETS	606,669.80
Non-Depreciable Assets	
Land	20,331.00
Total Non-Depreciable Assets	20,331.00
Total Fixed Assets	627,000.80
TOTAL ASSETS	**933,263.28**
LIABILITIES & EQUITY	
Equity	
NET POSITION	
Net Investment in Capital Asset	566,549.00
Total NET POSITION	566,549.00
Unrestricted Net Assets	325,504.36
Net Income	41,209.92
Total Equity	933,263.28
TOTAL LIABILITIES & EQUITY	**933,263.28**

Durham Irrigation District
Profit & Loss
January through September 2024

	Jan 24	Feb 24	Mar 24	Apr 24	May 24
Ordinary Income/Expense					
Income					
Water Sales Income					
OPERATING REVENUES					
Demand Fees	30.00	30.00	0.00	0.00	0.00
Meter Sales	224.00	255.36	364.00	140.00	646.23
Water Sales	35,358.10	31,296.01	30,844.89	25,913.89	32,869.76
Total OPERATING REVENUES	35,612.10	31,581.37	31,208.89	26,053.89	33,515.99
Total Water Sales Income	35,612.10	31,581.37	31,208.89	26,053.89	33,515.99
Total Income	35,612.10	31,581.37	31,208.89	26,053.89	33,515.99
Expense					
Contract Services					
Accounting Fees	775.00	9,835.66	556.25	525.00	525.00
Engineering Support	1,010.00	5,440.00	3,520.00	1,237.50	12,971.25
Legal Fees	3,163.50	499.50	1,942.50	1,776.00	1,646.50
Management & Administration	1,125.00	1,190.44	1,893.75	0.00	1,657.22
Total Contract Services	6,073.50	16,965.60	7,912.50	3,538.50	16,799.97
OPERATING EXPENSES					
Administration					
Board Stipends	300.00	300.00	300.00	300.00	500.00
District Wages, Taxes, Insur.					
Insurance	1,283.20	0.00	0.00	0.00	0.00
Payroll Service Fees	393.30	141.80	141.80	141.80	225.30
Payroll Tax Expense	676.48	277.27	276.71	-46.29	336.30
Wages	2,562.00	2,380.00	2,541.00	2,506.00	4,396.00
Total District Wages, Taxes, Insur.	4,914.98	2,799.07	2,959.51	2,601.51	4,957.60
Fees, Dues, Memberships	4,809.16	0.00	434.00	465.19	0.00
Office Expense					
Postage	500.00	0.00	300.00	300.00	300.00
Software	0.00	0.00	0.00	0.00	129.99
Supplies	44.90	-52.95	0.00	169.93	0.00
Website Hosting	84.00	84.00	84.00	84.00	84.00
Total Office Expense	628.90	31.05	384.00	553.93	513.99
Rent	760.31	761.33	650.00	650.00	810.34
Software Fees	130.00	130.00	250.00	130.00	130.00
Utilities					
Garbage	0.00	271.05	137.29	137.29	137.29
Gas & Electric	4,423.37	4,963.18	4,951.09	4,838.30	6,406.95
Telephone/Internet	218.80	362.56	218.80	218.73	218.73
Total Utilities	4,642.17	5,596.79	5,307.18	5,194.32	6,762.97
Water System Maint,Repair,Repl					
Regular Operations & Maint					
O & M Supplies	195.84	64.21	707.30	10.71	3,592.93
Water Testing Fees	0.00	656.24	0.00	192.92	508.24
Weed Management	0.00	1,600.00	800.00	800.00	1,645.00

Durham Irrigation District
Profit & Loss
January through September 2024

	Jan 24	Feb 24	Mar 24	Apr 24	May 24
Total Regular Operations & Maint	195.84	2,320.45	1,507.30	1,003.63	5,746.17
Water System Repair & Repl.+					
Repairs & Maint.	0.00	6,015.00	0.00	1,750.00	1,252.88
Contractor	0.00	3,373.24	0.00	0.00	2,812.00
Water Operator	3,558.71	3,558.71	3,558.71	3,558.71	3,558.71
Total Water System Repair & Repl.+	3,558.71	12,946.95	3,558.71	5,308.71	7,623.59
Total Water System Maint,Repair,Repl	3,754.55	15,267.40	5,066.01	6,312.34	13,369.76
Total Administration	19,940.07	24,885.64	15,350.70	16,207.29	27,044.66
Bank Service Charges	356.01	336.97	275.52	372.99	250.19
Total OPERATING EXPENSES	20,296.08	25,222.61	15,626.22	16,580.28	27,294.85
Total Expense	26,369.58	42,188.21	23,538.72	20,118.78	44,094.82
Net Ordinary Income	9,242.52	-10,606.84	7,670.17	5,935.11	-10,578.83
Other Income/Expense					
Other Income					
NON-OPERATING REVENUE					
Interest Income	468.93	436.07	466.57	452.07	626.16
Total NON-OPERATING REVENUE	468.93	436.07	466.57	452.07	626.16
Total Other Income	468.93	436.07	466.57	452.07	626.16
Other Expense					
Special District Projects					
Expenses					
Development Project Fees	0.00	0.00	0.00	55.50	0.00
Total Expenses	0.00	0.00	0.00	55.50	0.00
Total Special District Projects	0.00	0.00	0.00	55.50	0.00
Total Other Expense	0.00	0.00	0.00	55.50	0.00
Net Other Income	468.93	436.07	466.57	396.57	626.16
Net Income	**9,711.45**	**-10,170.77**	**8,136.74**	**6,331.68**	**-9,952.67**

Durham Irrigation District
Profit & Loss
January through September 2024

	Jun 24	Jul 24	Aug 24	Sep 24	TOTAL
Ordinary Income/Expense					
Income					
Water Sales Income					
OPERATING REVENUES					
Demand Fees	0.00	60.00	30.00	0.00	150.00
Meter Sales	790.00	252.00	503.77	0.00	3,175.36
Water Sales	30,664.63	44,295.84	46,986.13	45,742.25	323,971.50
Total OPERATING REVENUES	31,454.63	44,607.84	47,519.90	45,742.25	327,296.86
Total Water Sales Income	31,454.63	44,607.84	47,519.90	45,742.25	327,296.86
Total Income	31,454.63	44,607.84	47,519.90	45,742.25	327,296.86
Expense					
Contract Services					
Accounting Fees	575.00	593.75	9,875.00	575.00	23,835.66
Engineering Support	6,592.50	5,410.00	5,860.50	4,801.75	46,843.50
Legal Fees	92.50	1,591.00	458.50	74.00	11,244.00
Management & Administration	1,106.25	0.00	0.00	2,043.75	9,016.41
Total Contract Services	8,366.25	7,594.75	16,194.00	7,494.50	90,939.57
OPERATING EXPENSES					
Administration					
Board Stipends	300.00	400.00	400.00	400.00	3,200.00
District Wages, Taxes, Insur.					
Insurance	5,955.01	-112.50	0.00	0.00	7,125.71
Payroll Service Fees	150.20	150.20	150.20	150.20	1,644.80
Payroll Tax Expense	206.35	136.64	198.48	215.35	2,277.29
Wages	2,697.45	1,786.05	2,594.55	2,815.05	24,278.10
Total District Wages, Taxes, Insur.	9,009.01	1,960.39	2,943.23	3,180.60	35,325.90
Fees, Dues, Memberships	0.00	1.29	734.00	402.30	6,845.94
Office Expense					
Postage	150.00	200.00	400.00	200.00	2,350.00
Software	179.88	0.00	0.00	0.00	309.87
Supplies	0.00	333.85	0.00	836.42	1,332.15
Website Hosting	84.00	84.00	84.00	84.00	756.00
Total Office Expense	413.88	617.85	484.00	1,120.42	4,748.02
Rent	650.00	650.00	650.00	650.00	6,231.98
Software Fees	130.00	130.00	130.00	130.00	1,290.00
Utilities					
Garbage	137.29	137.29	137.29	137.29	1,232.08
Gas & Electric	6,188.77	10,298.22	13,014.27	11,989.81	67,073.96
Telephone/Internet	165.83	180.34	-300.00	697.11	1,980.90
Total Utilities	6,491.89	10,615.85	12,851.56	12,824.21	70,286.94
Water System Maint,Repair,Repl					
Regular Operations & Maint					
O & M Supplies	302.32	2,629.90	1,837.16	1,408.56	10,748.93
Water Testing Fees	348.20	192.92	315.32	192.92	2,406.76
Weed Management	800.00	0.00	1,600.00	0.00	7,245.00

Durham Irrigation District
Profit & Loss
January through September 2024

	Jun 24	Jul 24	Aug 24	Sep 24	TOTAL
Total Regular Operations & Maint	1,450.52	2,822.82	3,752.48	1,601.48	20,400.69
Water System Repair & Repl.+					
Repairs & Maint.	0.00	1,483.28	0.00	0.00	10,501.16
Contractor	0.00	0.00	0.00	0.00	6,185.24
Water Operator	3,558.71	3,558.71	3,558.74	3,558.71	32,028.42
Total Water System Repair & Repl.+	3,558.71	5,041.99	3,558.74	3,558.71	48,714.82
Total Water System Maint,Repair,Repl	5,009.23	7,864.81	7,311.22	5,160.19	69,115.51
Total Administration	22,004.01	22,240.19	25,504.01	23,867.72	197,044.29
Bank Service Charges	390.39	341.27	456.34	549.87	3,329.55
Total OPERATING EXPENSES	22,394.40	22,581.46	25,960.35	24,417.59	200,373.84
Total Expense	30,760.65	30,176.21	42,154.35	31,912.09	291,313.41
Net Ordinary Income	693.98	14,431.63	5,365.55	13,830.16	35,983.45
Other Income/Expense					
Other Income					
NON-OPERATING REVENUE					
Interest Income	704.35	733.97	735.56	695.29	5,318.97
Total NON-OPERATING REVENUE	704.35	733.97	735.56	695.29	5,318.97
Total Other Income	704.35	733.97	735.56	695.29	5,318.97
Other Expense					
Special District Projects					
Expenses					
Development Project Fees	37.00	0.00	0.00	0.00	92.50
Total Expenses	37.00	0.00	0.00	0.00	92.50
Total Special District Projects	37.00	0.00	0.00	0.00	92.50
Total Other Expense	37.00	0.00	0.00	0.00	92.50
Net Other Income	667.35	733.97	735.56	695.29	5,226.47
Net Income	**1,361.33**	**15,165.60**	**6,101.11**	**14,525.45**	**41,209.92**

Durham Irrigation District
Profit & Loss
January through September 2024

	TOTAL			
	Jan - Sep 24	Jan - Sep 23	$ Change	% Change
Ordinary Income/Expense				
Income				
Water Sales Income				
OPERATING REVENUES				
Demand Fees	150.00	240.00	-90.00	-37.5%
Meter Sales	3,175.36	13,614.28	-10,438.92	-76.68%
Water Sales	323,971.50	285,826.15	38,145.35	13.35%
Total OPERATING REVENUES	327,296.86	299,680.43	27,616.43	9.22%
Total Water Sales Income	327,296.86	299,680.43	27,616.43	9.22%
Total Income	327,296.86	299,680.43	27,616.43	9.22%
Expense				
Contract Services				
Accounting Fees	23,835.66	11,880.98	11,954.68	100.62%
Engineering Support	46,843.50	52,035.00	-5,191.50	-9.98%
Legal Fees	11,244.00	46,941.13	-35,697.13	-76.05%
Management & Administration	9,016.41	9,712.50	-696.09	-7.17%
Total Contract Services	90,939.57	120,569.61	-29,630.04	-24.58%
OPERATING EXPENSES				
Administration				
Board Stipends	3,200.00	4,200.00	-1,000.00	-23.81%
Contract Services	0.00	743.75	-743.75	-100.0%
District Wages, Taxes, Insur.				
Insurance	7,125.71	7,008.82	116.89	1.67%
Payroll Service Fees	1,644.80	1,459.00	185.80	12.74%
Payroll Tax Expense	2,277.29	2,204.34	72.95	3.31%
Wages	24,278.10	28,266.00	-3,987.90	-14.11%
Total District Wages, Taxes, Insur.	35,325.90	38,938.16	-3,612.26	-9.28%
Fees, Dues, Memberships	6,845.94	6,146.67	699.27	11.38%
Office Expense				
Meals	0.00	23.25	-23.25	-100.0%
Postage	2,350.00	3,090.59	-740.59	-23.96%
Software	309.87	442.37	-132.50	-29.95%
Supplies	1,332.15	1,738.25	-406.10	-23.36%
Website Hosting	756.00	702.00	54.00	7.69%
Total Office Expense	4,748.02	5,996.46	-1,248.44	-20.82%
Rent	6,231.98	6,278.66	-46.68	-0.74%
Software Fees	1,290.00	1,080.00	210.00	19.44%
Utilities				
Garbage	1,232.08	1,194.16	37.92	3.18%
Gas & Electric	67,073.96	54,460.38	12,613.58	23.16%
Telephone/Internet	1,980.90	2,006.23	-25.33	-1.26%
Total Utilities	70,286.94	57,660.77	12,626.17	21.9%
Water System Maint,Repair,Repl				
Regular Operations & Maint				

Durham Irrigation District
Profit & Loss
January through September 2024

	TOTAL			
	Jan - Sep 24	Jan - Sep 23	$ Change	% Change
O & M Supplies	10,748.93	25,834.07	-15,085.14	-58.39%
Water Testing Fees	2,406.76	3,522.62	-1,115.86	-31.68%
Weed Management	7,245.00	8,800.00	-1,555.00	-17.67%
Total Regular Operations & Maint	20,400.69	38,156.69	-17,756.00	-46.53%
Water System Repair & Repl.+				
Repairs & Maint.	10,501.16	21,116.07	-10,614.91	-50.27%
Contractor	6,185.24	31,396.39	-25,211.15	-80.3%
Water Operator	32,028.42	31,126.24	902.18	2.9%
Total Water System Repair & Repl.+	48,714.82	83,638.70	-34,923.88	-41.76%
Total Water System Maint,Repair,Repl	69,115.51	121,795.39	-52,679.88	-43.25%
Total Administration	197,044.29	242,839.86	-45,795.57	-18.86%
Bank Service Charges	3,329.55	2,646.20	683.35	25.82%
Total OPERATING EXPENSES	200,373.84	245,486.06	-45,112.22	-18.38%
Total Expense	291,313.41	366,055.67	-74,742.26	-20.42%
Net Ordinary Income	35,983.45	-66,375.24	102,358.69	154.21%
Other Income/Expense				
Other Income				
NON-OPERATING REVENUE				
Settlement	0.00	118,171.50	-118,171.50	-100.0%
Interest Income	5,318.97	5,890.53	-571.56	-9.7%
Total NON-OPERATING REVENUE	5,318.97	124,062.03	-118,743.06	-95.71%
Total Other Income	5,318.97	124,062.03	-118,743.06	-95.71%
Other Expense				
Special District Projects				
Expenses				
Development Project Fees	92.50	3,418.50	-3,326.00	-97.29%
Total Expenses	92.50	3,418.50	-3,326.00	-97.29%
Total Special District Projects	92.50	3,418.50	-3,326.00	-97.29%
Total Other Expense	92.50	3,418.50	-3,326.00	-97.29%
Net Other Income	5,226.47	120,643.53	-115,417.06	-95.67%
Net Income	**41,209.92**	**54,268.29**	**-13,058.37**	**-24.06%**

Durham Irrigation District
General Ledger
As of September 30, 2024

Date	Num	Name	Memo	Paid Amount	Balance
Current Assets					291,737.03
Cash					78,989.53
09/03/2024		Deposit	Deposit	921.15	79,910.68
09/03/2024		Deposit	Deposit	315.71	80,226.39
09/03/2024		Deposit	Deposit	288.57	80,514.96
09/03/2024		Deposit	Deposit	239.41	80,754.37
09/03/2024		Bank Charge		-461.87	80,292.50
09/03/2024		Bank Charge		-34.00	80,258.50
09/04/2024		Deposit	Deposit	115.43	80,373.93
09/05/2024		Deposit	Deposit	5,300.93	85,674.86
09/05/2024		Deposit	Deposit	558.16	86,233.02
09/05/2024		Wages		-956.65	85,276.37
09/06/2024		Deposit	Deposit	117.85	85,394.22
09/06/2024		Paychex		-75.10	85,319.12
09/06/2024		Payroll Taxes		-404.26	84,914.86
09/09/2024		Deposit	Deposit	818.01	85,732.87
09/09/2024		Deposit	Deposit	749.94	86,482.81
09/09/2024		Deposit	Deposit	110.43	86,593.24
09/10/2024		Deposit	Deposit	5,225.29	91,818.53
09/10/2024		Deposit	Deposit	50.43	91,868.96
09/10/2024		Adj. to deposit		-0.07	91,868.89
09/11/2024		Deposit	Deposit	6,488.61	98,357.50
09/11/2024		Deposit	Deposit	381.42	98,738.92
09/12/2024		Deposit	Deposit	1,592.24	100,331.16
09/12/2024		Returned Item	returned item	-62.30	100,268.86
09/12/2024		Bank Charge		-10.00	100,258.86
09/13/2024		Deposit	Deposit	126.14	100,385.00
09/13/2024		Staples		-650.03	99,734.97
09/16/2024		Deposit	Deposit	9,025.12	108,760.09
09/16/2024		Deposit	Deposit	274.99	109,035.08
09/16/2024		Deposit	Deposit	260.09	109,295.17
09/16/2024		Deposit	Deposit	203.00	109,498.17
09/17/2024	10226	James M. Doyle	Sept 2024	-200.00	109,298.17
09/17/2024	10227	Kevin Phillips	Sept 2024	-100.00	109,198.17
09/17/2024	10228	Derek Sohnrey	Sept 2024	-100.00	109,098.17
09/17/2024	10229	Pace Analytical Serv...	water quality testing	-192.92	108,905.25
09/17/2024	10230	Sierra Water Utility	chlorine	-1,408.56	107,496.69
09/17/2024	10231	Camp & McLaughlin	Sept 2024 rent	-650.00	106,846.69
09/17/2024	10232	PG & E		-11,989.81	94,856.88
09/17/2024	10233	Recology		-137.29	94,719.59
09/17/2024	10243	Sequoyah		-130.00	94,589.59
09/17/2024	10234	Streamline		-84.00	94,505.59
09/17/2024	10235	Sheryl Bosman	bookkeeping July 2024	-575.00	93,930.59
09/17/2024	10236	Nicole Lee Johnasson	outreach consulting Jul...	-356.25	93,574.34
09/17/2024	10237	Luhdorff Scalmanini ...	CIP implent/funding su...	-913.75	92,660.59
09/17/2024	10238	Northstar Engineering		-3,888.00	88,772.59
09/17/2024	10239	Prentice Long, PC		-74.00	88,698.59
09/17/2024	10240	Sierra Water Utility		-3,558.71	85,139.88
09/17/2024	10241	Butte LAFCO	2024-2025	-402.30	84,737.58
09/17/2024	10242	Nicole Lee Johnasson	reissued check	-1,687.50	83,050.08
09/17/2024		Deposit	Deposit	1,345.05	84,395.13
09/18/2024		Deposit	Deposit	814.83	85,209.96
09/18/2024		Returned Item	returned item	-65.06	85,144.90
09/18/2024		Bank Charge		-10.00	85,134.90
09/18/2024		Harland Checks		-186.39	84,948.51
09/18/2024		Wages		-1,174.37	83,774.14
09/19/2024		Bank Charge		-34.00	83,740.14
09/20/2024		Deposit	Deposit	138.07	83,878.21
09/20/2024		Comcast		-180.34	83,697.87
09/20/2024		Paychex		-75.10	83,622.77
09/20/2024		Payroll Taxes		-495.12	83,127.65
09/23/2024		Deposit	Deposit	748.02	83,875.67
09/23/2024		Deposit	Deposit	360.96	84,236.63
09/23/2024		Deposit	Deposit	115.95	84,352.58
09/24/2024		Deposit	Deposit	5,993.84	90,346.42
09/24/2024		Deposit	Deposit	15.88	90,362.30
09/26/2024		Deposit	Deposit	105.07	90,467.37
09/26/2024		Comcast		-516.77	89,950.60

Date	Num	Name	Memo	Paid Amount	Balance
09/27/2024		Postalia		-200.00	89,750.60
09/30/2024		Deposit	Deposit	637.57	90,388.17
09/30/2024		Deposit	Deposit	89.07	90,477.24
09/30/2024		Deposit	Deposit	302.99	90,780.23
09/30/2024		Deposit	Deposit	2,039.46	92,819.69
Total Cash				13,830.16	92,819.69
Cash on Hand					400.01
Total Cash on Hand					400.01
Development Fees					36,660.24
Total Development Fees					36,660.24
Savings					14,382.70
09/30/2024		Deposit	Deposit	0.12	14,382.82
Total Savings				0.12	14,382.82
California CLASS					161,304.55
09/30/2024		Deposit	Deposit	695.17	161,999.72
Total California CLASS				695.17	161,999.72
Total Current Assets				14,525.45	306,262.48
Taxes Receivable					751.54
Total Taxes Receivable					751.54
A/R					-751.54
Total A/R					-751.54
CAPITAL ASSETS					606,669.80
Depreciable Assets					606,669.80
Equipment					101,440.80
Total Equipment					101,440.80
Mains					623,540.00
Total Mains					623,540.00
Pumps					172,575.00
Total Pumps					172,575.00
Structures					16,084.00
Total Structures					16,084.00
Wells					127,486.00
Total Wells					127,486.00
Less Accum. Dep'n					-434,456.00
Total Less Accum. Dep'n					-434,456.00
Total Depreciable Assets					606,669.80
Total CAPITAL ASSETS					606,669.80
Non-Depreciable Assets					20,331.00
Land					20,331.00
Total Land					20,331.00
Total Non-Depreciable Assets					20,331.00
NET POSITION					-566,549.00
Net Investment in Capital Asset					-566,549.00
Total Net Investment in Capital Asset					-566,549.00
Total NET POSITION					-566,549.00
Unrestricted Net Assets					-325,504.36
Total Unrestricted Net Assets					-325,504.36
Water Sales Income					-281,554.61

Date	Num	Name	Memo	Paid Amount	Balance
OPERATING REVENUES					-281,554.61
Demand Fees					-150.00
Total Demand Fees					-150.00
Meter Sales					-3,175.36
Total Meter Sales					-3,175.36
Water Sales					-278,229.25
09/03/2024		Deposit	Deposit	-921.15	-279,150.40
09/03/2024		Deposit	Deposit	-315.71	-279,466.11
09/03/2024		Deposit	Deposit	-288.57	-279,754.68
09/03/2024		Deposit	Deposit	-239.41	-279,994.09
09/04/2024		Deposit	Deposit	-115.43	-280,109.52
09/05/2024		Deposit	Deposit	-5,300.93	-285,410.45
09/05/2024		Deposit	Deposit	-558.16	-285,968.61
09/06/2024		Deposit	Deposit	-117.85	-286,086.46
09/09/2024		Deposit	Deposit	-818.01	-286,904.47
09/09/2024		Deposit	Deposit	-749.94	-287,654.41
09/09/2024		Deposit	Deposit	-110.43	-287,764.84
09/10/2024		Deposit	Deposit	-5,225.29	-292,990.13
09/10/2024		Deposit	Deposit	-50.43	-293,040.56
09/10/2024		Adj. to deposit		0.07	-293,040.49
09/11/2024		Deposit	Deposit	-6,488.61	-299,529.10
09/11/2024		Deposit	Deposit	-381.42	-299,910.52
09/12/2024		Deposit	Deposit	-1,592.24	-301,502.76
09/12/2024		Returned Item	returned item	62.30	-301,440.46
09/13/2024		Deposit	Deposit	-126.14	-301,566.60
09/16/2024		Deposit	Deposit	-9,025.12	-310,591.72
09/16/2024		Deposit	Deposit	-274.99	-310,866.71
09/16/2024		Deposit	Deposit	-260.09	-311,126.80
09/16/2024		Deposit	Deposit	-203.00	-311,329.80
09/17/2024		Deposit	Deposit	-1,345.05	-312,674.85
09/18/2024		Deposit	Deposit	-814.83	-313,489.68
09/18/2024		Returned Item	returned item	65.06	-313,424.62
09/20/2024		Deposit	Deposit	-138.07	-313,562.69
09/23/2024		Deposit	Deposit	-748.02	-314,310.71
09/23/2024		Deposit	Deposit	-360.96	-314,671.67
09/23/2024		Deposit	Deposit	-115.95	-314,787.62
09/24/2024		Deposit	Deposit	-5,993.84	-320,781.46
09/24/2024		Deposit	Deposit	-15.88	-320,797.34
09/26/2024		Deposit	Deposit	-105.07	-320,902.41
09/30/2024		Deposit	Deposit	-637.57	-321,539.98
09/30/2024		Deposit	Deposit	-89.07	-321,629.05
09/30/2024		Deposit	Deposit	-302.99	-321,932.04
09/30/2024		Deposit	Deposit	-2,039.46	-323,971.50
Total Water Sales				-45,742.25	-323,971.50
Total OPERATING REVENUES				-45,742.25	-327,296.86
Total Water Sales Income				-45,742.25	-327,296.86
Contract Services					83,445.07
Accounting Fees					23,260.66
09/17/2024	10235	Sheryl Bosman	bookkeeping July 2024	575.00	23,835.66
Total Accounting Fees				575.00	23,835.66
Engineering Support					42,041.75
09/17/2024	10237	Luhdorff Scalmanini ...	CIP implent/funding su...	913.75	42,955.50
09/17/2024	10238	Northstar Engineering	meetings	437.50	43,393.00
09/17/2024	10238	Northstar Engineering	operational support	1,148.00	44,541.00
09/17/2024	10238	Northstar Engineering		2,302.50	46,843.50
Total Engineering Support				4,801.75	46,843.50
Legal Fees					11,170.00
09/17/2024	10239	Prentice Long, PC		74.00	11,244.00

Date	Num	Name	Memo	Paid Amount	Balance
Total Legal Fees				74.00	11,244.00
Management & Administration					6,972.66
09/17/2024	10236	Nicole Lee Johnasson	outreach consulting Jul...	356.25	7,328.91
09/17/2024	10242	Nicole Lee Johnasson	reissued check	1,687.50	9,016.41
Total Management & Administration				2,043.75	9,016.41
Total Contract Services				7,494.50	90,939.57
OPERATING EXPENSES					175,956.25
Administration					173,176.57
Board Stipends					2,800.00
09/17/2024	10226	James M. Doyle	Sept 2024	200.00	3,000.00
09/17/2024	10227	Kevin Phillips	Sept 2024	100.00	3,100.00
09/17/2024	10228	Derek Sohnrey	Sept 2024	100.00	3,200.00
Total Board Stipends				400.00	3,200.00
District Wages, Taxes, Insur.					32,145.30
Insurance					7,125.71
Total Insurance					7,125.71
Payroll Service Fees					1,494.60
09/06/2024		Paychex		75.10	1,569.70
09/20/2024		Paychex		75.10	1,644.80
Total Payroll Service Fees				150.20	1,644.80
Payroll Tax Expense					2,061.94
09/05/2024		Wages		-307.55	1,754.39
09/06/2024		Payroll Taxes		404.26	2,158.65
09/18/2024		Wages		-376.48	1,782.17
09/20/2024		Payroll Taxes		495.12	2,277.29
Total Payroll Tax Expense				215.35	2,277.29
Wages					21,463.05
09/05/2024		Wages		1,264.20	22,727.25
09/18/2024		Wages		1,550.85	24,278.10
Total Wages				2,815.05	24,278.10
Total District Wages, Taxes, Insur.				3,180.60	35,325.90
Fees, Dues, Memberships					6,443.64
09/17/2024	10241	Butte LAFCO	2024-2025	402.30	6,845.94
Total Fees, Dues, Memberships				402.30	6,845.94
Office Expense					3,627.60
Postage					2,150.00
09/27/2024		Postalia		200.00	2,350.00
Total Postage				200.00	2,350.00
Software					309.87
Total Software					309.87
Supplies					495.73
09/13/2024		Staples		650.03	1,145.76
09/18/2024		Harland Checks		186.39	1,332.15
Total Supplies				836.42	1,332.15
Website Hosting					672.00
09/17/2024	10234	Streamline		84.00	756.00
Total Website Hosting				84.00	756.00
Total Office Expense				1,120.42	4,748.02

Date	Num	Name	Memo	Paid Amount	Balance
Rent					5,581.98
09/17/2024	10231	Camp & McLaughlin	Sept 2024 rent	650.00	6,231.98
Total Rent				650.00	6,231.98
Software Fees					1,160.00
09/17/2024	10243	Sequoyah		130.00	1,290.00
Total Software Fees				130.00	1,290.00
Utilities					57,462.73
Garbage					1,094.79
09/17/2024	10233	Recology		137.29	1,232.08
Total Garbage				137.29	1,232.08
Gas & Electric					55,084.15
09/17/2024	10232	PG & E		11,989.81	67,073.96
Total Gas & Electric				11,989.81	67,073.96
Telephone/Internet					1,283.79
09/20/2024		Comcast		180.34	1,464.13
09/26/2024		Comcast		516.77	1,980.90
Total Telephone/Internet				697.11	1,980.90
Total Utilities				12,824.21	70,286.94
Water System Maint,Repair,Repl					63,955.32
Regular Operations & Maint					18,799.21
O & M Supplies					9,340.37
09/17/2024	10230	Sierra Water Utility	chlorine	1,408.56	10,748.93
Total O & M Supplies				1,408.56	10,748.93
Water Testing Fees					2,213.84
09/17/2024	10229	Pace Analytical Serv...	water quality testing	192.92	2,406.76
Total Water Testing Fees				192.92	2,406.76
Weed Management					7,245.00
Total Weed Management					7,245.00
Total Regular Operations & Maint				1,601.48	20,400.69
Water System Repair & Repl.+					45,156.11
Repairs & Maint.					10,501.16
Total Repairs & Maint.					10,501.16
Contractor					6,185.24
Total Contractor					6,185.24
Water Operator					28,469.71
09/17/2024	10240	Sierra Water Utility		3,558.71	32,028.42
Total Water Operator				3,558.71	32,028.42
Total Water System Repair & Repl.+				3,558.71	48,714.82
Total Water System Maint,Repair,Repl				5,160.19	69,115.51
Total Administration				23,867.72	197,044.29
Bank Service Charges					2,779.68
09/03/2024		Bank Charge		461.87	3,241.55
09/03/2024		Bank Charge		34.00	3,275.55
09/12/2024		Bank Charge		10.00	3,285.55
09/18/2024		Bank Charge		10.00	3,295.55
09/19/2024		Bank Charge		34.00	3,329.55
Total Bank Service Charges				549.87	3,329.55

Date	Num	Name	Memo	Paid Amount	Balance
Total OPERATING EXPENSES				24,417.59	200,373.84
NON-OPERATING REVENUE					-4,623.68
Interest Income					-4,623.68
09/30/2024		Deposit	Deposit	-695.17	-5,318.85
09/30/2024		Deposit	Deposit	-0.12	-5,318.97
Total Interest Income				-695.29	-5,318.97
Total NON-OPERATING REVENUE				-695.29	-5,318.97
Special District Projects					92.50
Expenses					92.50
Development Project Fees					92.50
Total Development Project Fees					92.50
Total Expenses					92.50
Total Special District Projects					92.50
TOTAL				**0.00**	**0.00**

10/10/2024

Durham Irrigation District
Monthly Billing Recap 9/1/2024 thru 9/30/2024

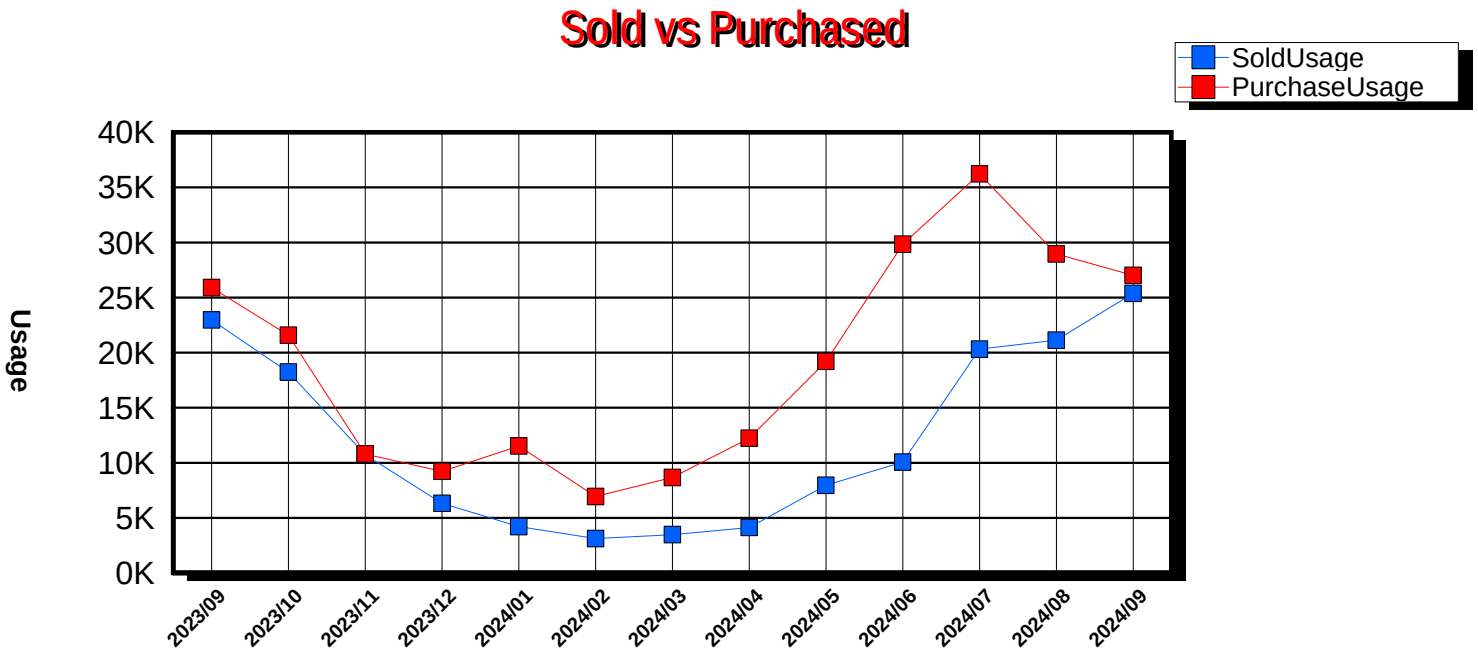
		Amount	Count
Water Purchased or Produced this month		0	
Water Sold this month		26,515	
Water System used or accountable loss		0	
Water Loss	**0.00 %**	**26,515**	
Total Water Sales this month		49,690.90	474
Total Penalties this month		411.32	101
Total Adjustments this month		0.00	32
Total of other charges this month		1,232.00	6
Total Current Charges		**51,334.22**	
Current Balance		1,651.52	192
30 Days Past Due		4,266.24	19
60 Days Past Due		3,081.93	16
90 Days Past Due		11,929.19	36
Total Accounts Receivable		**20,928.88**	
Total Payments Received		**44,661.83**	393
New Memberships		0.00	1
Active Accounts		19,921.21	475
InActive Accounts		1,007.67	76
Forfeiture Accounts		0.00	0
Average Water Usage		55	
Average Water Charge		104.83	

Low Range	High Range	Usage	Count	Sales	%Usage	%Sales
0	0	0	0	0.00	0.00	0.00
0	0	0	103	6,743.18	0.00	13.57
1	2,000	26,515	371	42,947.72	100.00	86.43
2,001	4,000	0	0	0.00	0.00	0.00
4,001	6,000	0	0	0.00	0.00	0.00
6,001	8,000	0	0	0.00	0.00	0.00
8,001	10,000	0	0	0.00	0.00	0.00
10,001	20,000	0	0	0.00	0.00	0.00
20,001	30,000	0	0	0.00	0.00	0.00
30,001	40,000	0	0	0.00	0.00	0.00
40,001	50,000	0	0	0.00	0.00	0.00
50,001	999,999,999	0	0	0.00	0.00	0.00
		26,515	474	49,690.90		

Accounts Receivable Last Month Ending	14,256.49	
Sales/Charges this Month	51,334.22	
Adjustments this Month	0.00	
Less: Payments this Month	44,661.83	
Accounts Receivable Total	20,928.88	20,928.88

Pump Total

Year/Month	Purchased	Sold	Loss	Pct
2023/09	25,905	22,965	-2,940	-11.3
2023/10	21,581	18,237	-3,344	-15.5
2023/11	10,797	10,729	-68	-0.6
2023/12	9,221	6,316	-2,905	-31.5
2024/01	11,522	4,208	-7,314	-63.5
2024/02	6,936	3,118	-3,818	-55.0
2024/03	8,666	3,477	-5,189	-59.9
2024/04	12,233	4,127	-8,106	-66.3
2024/05	19,204	7,954	-11,250	-58.6
2024/06	29,843	10,066	-19,777	-66.3
2024/07	36,230	20,317	-15,913	-43.9
2024/08	28,958	21,131	-7,827	-27.0
2024/09	27,021	25,378	-1,643	-6.1



Acct	Name		Balance	10/1/2024 Current	30 Days	60-Days	90-Days
291	Guerra, Diego & Marissa	9665 Teal Ln	1,700.36	111.43	153.48	140.51	1,294.94
212	Kellogg, Deanna	2415 Florida Ln	1,538.46	111.07	158.63	113.55	1,155.21
80	Day, David	9389 Midway	1,477.22	42.07	62.70	59.04	1,313.41
331	Sonsteng, Chimene	9642 Duckling Dr	1,348.47	46.43	220.48	110.44	971.12
683	Seegert, James	9369 La Rose Ct	1,281.72	220.43	414.97	339.98	306.34
57	Dotson, Kevin Dolz and Dan	9386 Goodspeed St	1,179.98	41.07	89.93	75.80	973.18
108	Sierra Christian Services,	9260 Goodspeed St	1,172.57	83.07	139.35	98.49	851.66
128	Horn, Howard	2370 Serviss St	947.54	98.07	93.85	91.62	664.00
640	Martinez, Jesse & Elisabeth	2466 Tracy Ranch Rd	908.69	138.43	187.55	159.90	422.81
22	Hait, Jed	2393 Brown St	906.84	43.07	61.62	66.87	735.28
237	Rosemarie Taylor Revocable '	2399 Serviss St	867.50	56.07	57.29	65.60	688.54
174	Cole, Leslie Ray and Kevin G	9415 Putney Dr	797.14	39.07	51.57	50.96	655.54
936	Fosdick, Devin	2390 Brown St	711.74	35.07	44.01	43.49	589.17
114	Grigsby, Daniel	2410 Brown St	680.85	63.78	72.39	71.43	473.25
943	LaChappelle, Michael	9216 Goodspeed St	674.45	35.07	43.58	43.05	552.75
945	Schell, Daniel and Korena	2553 Durham Dayton Hwy	628.64	143.07	194.15	156.35	135.07
916	Bresson, Christopher & Kimb	9416 Goodspeed St	623.12	40.07	49.98	48.35	484.72
245	, Durham Guild	2393 Durham-Dayton Hwy	620.79	63.78	71.42	70.46	415.13
30	Casper, J. Payan and C.	2375 Serviss St	589.06	64.07	68.41	48.50	408.08
606	Harris, James	9424 Putney Dr	587.22	35.07	42.49	41.96	467.70
906	Wood, Tate and Traci	40 San Rafael Ct	393.54	116.43	167.50	109.61	
129	Parks, Justin	2404 Campbell St	308.90	35.07	55.98	42.20	175.65
183	Ownby, Karen Koehly	2455 Durham-Dayton Hwy	303.25	41.07	48.43	46.10	167.65
919	Sanchez, Jose	9259 Midway	261.87	59.07	81.03	64.86	56.91
188	Lopez, Victor and Rosie	2345 Florida Ln	232.91	35.07	37.84	38.21	121.79
931	Day, Kelvin Scott	2385 Florida Ln	222.34	38.07	41.63	39.04	103.60
127	Dentkos, Andrew	9360 Goodspeed St	209.25	44.07	59.46	52.60	53.12
49	Compton, Craig	9231 Goodspeed St	207.03	44.07	57.44	49.62	55.90
193	Pfaff, Brad	2369 Florida Ln	192.42	42.07	44.07	49.07	57.21
29		**Total**	**$21,573.87**	**$1,965.25**	**$2,871.23**	**$2,387.66**	**$14,349.73**

DURHAM IRRIGATION DISTRICT
Meeting Minutes
Board of Directors:
Matt Doyle, Chair; Kevin Phillips, Treasurer; Derek Sohnrey

Tuesday, September 17, 2024
5:30 PM

District Office
9418-C Midway
Durham CA 95938

1 CALL TO ORDER – 5:32 PM

Present: Directors Doyle, Phillips and Sohnrey.
Absent: NONE
Also present: District Engineer Robin Kampmann; Water Operator Adam Daigle; District Counsel Amanda Uhrhammer; Public Outreach Nicole Johansson, and Administrative Assistant Jeannie Trizzino.

2 ROLL CALL / OPENING BUSINESS

2.1 AGENDA APPROVAL, ADDITIONS AND/OR DELETIONS – NO CHANGES

2.2 PUBLIC COMMENT – NO COMMENTS

3 CORRESPONDENCE - NONE

4 PRESENTATIONS - NONE

5 REPORTS/ANNOUNCEMENTS FROM DIRECTORS

5.1 VINA GSA REPORT (Vina GSA Calendar here: https://www.vinagsa.org/calendar)
SUBJECT: Status report on Vina GSA.
FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.

Chair Doyle reports that Vina GSA is still recruiting Stakeholder Advisory Committee (SHAC) representatives and that the SHAC meeting has been rescheduled to November 2024 as a result. Outreach coordinator Nicole Johansson reports that the Vina GSA Management Committee discussed the upcoming outreach campaign in association with the upcoming Vina GSA rate review.

PUBLIC COMMENT
Mr. Patrick Button commented whether Sierra Nevada Brewery was paying any fees related to Vina GSA.

6 PUBLIC HEARINGS - NONE

7 INFORMATION/CONSENT CALENDAR

7.1 Warrant Sheet from August 16, 2024 to September 12, 2024, including payments, deposits, and transaction adjustments.

SUBJECT: Approve payments, deposits, and transaction adjustments.
FISCAL IMPACT: See attachments.
ACTION REQUESTED: APPROVE

7.2 Board of Directors Meeting Minutes for August 20, 2024.

SUBJECT: Approve draft minutes.
FISCAL IMPACT: NONE.
ACTION REQUESTED: APPROVE

A motion was made by Director Phillips and seconded by Director Sohnrey to approve the entire Consent Agenda.
Aye: 3 – Doyle, Phillips, Sohnrey
Nay: 0
Absent: 0

8 DISTRICT ENGINEER REPORT

8.1 Brown-Faber Pipeline Replacement

SUBJECT: Segments of the Brown-Faber Pipeline are in poor condition and need to be replaced as emergency repair work.
FISCAL IMPACT: $60,000 estimated

District Engineer reports that NorthStar prepared bid documents for replacement of a section of the Brown-Faber Pipeline and sent them to four companies with an NTE threshold of $60K. The bid package was modified to remove a requirement to replace concrete on a portion of the project overlying a resident's property where the owner had paved over the District's service line. Counsel will meet with the owner and District Engineer to discuss options the property owner has in this case (e.g., to perform the work himself, have the District contractor perform the work, or have another company do the work). District Engineer confirmed that any unmetered connections in the replacement segment will have meters installed in the process of the line replacement. Customers receiving meters will be converted to metered billing and will be charged for meter installation.

The bid package was submitted to four qualified contractors. One responded immediately that they were too busy to schedule the job, and another met with Sierra Water Utility and District Engineer to tour the job site.

8.2 CIP Update

SUBJECT: District Engineer to report on changes to the CIP adopted at the June 2024 board meeting.
FISCAL IMPACT: NONE
ACTION REQUESTED: Adopt revised Final CIP.

District Engineer did not transmit final CIP for board review and approval, so the matter was tabled for discussion to the October 2024 board meeting. District Engineer noted that the primary change to the CIP from the previously approved June 2024 version was to move the water storage tank project to Phase 3, since the expected funding for this project was no longer available in the near term.

8.3 Capacity Fees

SUBJECT: District Engineer to report on financing schedule and plan for the Capacity Fee/Prop 218 Process.
FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.

Director Phillips will send information to the District Engineer for incorporation into the draft capacity fee calculations. The revised fee calculations will include updated connection fees.

8.4 USBR Grant-Funded Meter Replacement and Lead Service Laterals Assessment Project

SUBJECT: USBR Grant reimbursement update.
FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.

District Engineer is isolating the non-ground-breaking portions of the project that did not require environmental review and should be reimbursable.

8.5 CIP and Funding Implementation Assistance Services

SUBJECT: Approval of the agreement with Luhdorff & Scalmanini Consulting Engineers (LSCE) for continued CIP and funding implementation services. The previous agreement for services approved in 2022 is expended.
FISCAL IMPACT: Not to exceed $15,000.00.
ACTION REQUESTED: District Engineer recommends the Board approve the agreement.

Director Doyle asked whether the agreement needed to be approved at this time and suggested that approval be scheduled to some time after the CIP was finalized and adopted, likely to the December 2024 board meeting.

A motion was made by Director Phillips and seconded by Director Sohnrey to table contract approval until after the CIP is finalized.
Aye: 3 – Doyle, Phillips, Sohnrey
Nay: 0
Absent: 0

PUBLIC COMMENT
Mr. Patrick Button commented that there is a proposition on the November ballot that would eliminate the Prop. 218 process for rate increases.

9 DISTRICT OUTREACH REPORT (NON-ACTION ITEMS)

SUBJECT: Report by Nicole Johansson on the following areas: (a) community outreach, (b) funding opportunities, (c) legislative outreach, and (d) management responsibilities, including mass notification system.

FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.

Johansson confirmed that her District work (and billings) is on a minimal basis pending the start of the planned Prop. 218 rate increase process.

10 WATER OPERATOR REPORT (NON-ACTION ITEMS)

SUBJECT: Report by water operator on previous month's activities.
FISCAL IMPACT: NONE
ACTION REQUESTED: Receive information, discuss and provide direction.

Water Operator discussed SDRMA risk potential assessment conducted on August 28, 2024, noting that a few issues were identified that he would be able to address. He is coordinating with District Engineer to finalize the Lead Service Line inventory for the state. He is awaiting the results of the PFAS testing.

11 DISTRICT COUNSEL REPORT (NON-ACTION ITEMS)

SUBJECT: Verbal report by counsel on district-related activities. *See also regular agenda.*

District Counsel noted that in order to authorize staff (i.e., administrative assistant) to issue payments outside of regular warrant process, the board could approve a change to the existing District Procurement Policy.

PUBLIC COMMENT
Mr. Patrick Button commented he would like the District to consider a policy by which newly metered customers could invoke a grace period giving them time to repair a previously unknown leak.

12 REGULAR AGENDA

12.1 Consideration of District Bylaws

SUBJECT: Consideration of District Bylaws.
FISCAL IMPACT: NONE
ACTION REQUESTED: Adopt District Bylaws.

District Counsel noted that updated bylaws will expand board from three directors to five, which may generate more community interest, make compliance with state law that requires supermajority votes on certain matters, and expand the officer roster to: President, Vice President, Secretary, and Treasurer, noting that the Secretary can delegate tasks to a general manager. Additionally, the District can consider seating someone in the role of Director of Finance.

Director Sohnrey asked for clarification on the requirements to serve on the Board. District Counsel replied that the requirements are simple – that a Director must be a resident in the District, whether they be an owner or a tenant. Director Phillips noted that the District is exempted from the requirement to divide itself into separate sub-districts under special state legislation passed in the early 2000s.

PUBLIC COMMENT
Mr. Patrick Button suggested that the District include a specific mission statement in its bylaws. Director Doyle referred him to the "About" section on the District's website.

12.2 Certificate of Insurance Tracking Service

SUBJECT: Consideration of agreement for tracking services for Certificates of Insurance, W9s, and other compliance documents to ensure liability coverage minimums are met and that COIs and business licenses are still active. The District has ~30 vendors it must track and will have more as work on CIP projects commences, as well as SCIF vendor audits. The PINS service will allow the District to automate required document requests, reducing staff time to accomplish a labor-intensive task.
FISCAL IMPACT: $1,000 / year
ACTION REQUESTED: Approve 12-month service agreement with PINS for certificate of insurance tracking.

A motion was made by Director Phillips and seconded by Director Sohnrey to approve the agreement with PINS Certificate of Insurance Tracking Service pending approval of contract by District Counsel.
Aye: 3 – Doyle, Phillips, Sohnrey
Nay: 0
Absent: 0

13 DIRECTORS' COMMENTS

Director Phillips directed staff to arrange for District-based emails for each director in the form of first initial + last name @ didwater.org.

Director Phillips requested District Counsel to clarify the process for the appointment of new directors upon adoption of bylaws. District Counsel advised that the District would go through a similar process to that when Director Sohnrey was seated. The county would be notified after the board approved and appointed new directors. After the initial appointment, coordination of candidacy would be through the County Board of Elections.

Director Sohnrey thanked everyone for attending.

Director Doyle directed District counsel to research options for board compensation in addition to or instead of the current stipend system. Directory Sohnrey was concerned about the budget increase the District would incur with an expanded director roster.

14 ADJOURNMENT

There being no further business, the meeting adjourned at 6:45 pm. The next Regular Board Meeting is scheduled for October 15, 2024.

CAPITAL IMPROVEMENT PROGRAM

FOR

DURHAM IRRIGATION DISTRICT

Prepared for:

Durham Irrigation District
PO Box 98
Durham, CA 95938

Prepared by:

111 Mission Ranch Blvd. Ste. 100
Chico, CA 95926

Final September 2024 Update

Prepared by or under the supervision of:

Mark Adams, PE
RCE 34257

Date _____

The following presents the August 2024 recommended Capital Improvement Program (CIP) for the Durham Irrigation District's (DID) existing water system. A CIP was first prepared for the District in 2008 by West Yost Associates under contract to California Water Service Company.

NorthStar prepared an updated CIP in 2018. Many of the projects identified in the West Yost CIP were included in the 2018 update. Additional projects were added to the CIP based on input from others, including the Board and the water system operator, at a public workshop.

A subsequent update was prepared in October of 2023. The 2018 list of projects was presented to the Durham community at a public workshop on October 17, 2023. Public input was solicited to influence the FINAL list of capital improvement projects to be included in the FINAL 2023 CIP that was then adopted by the Board in December of 2023.

Minor cost-of-living adjustments have been made to the October 2023 CIP costs for this current September 2024 CIP. Some 2018 projects have been modified as a result of construction completed by the District since 2018. Other projects have been included based on input from the DID Board and the water system operator. At the direction of the Board, a Well Assessment was recently completed for the District's three wells, the source of water for the District. Additional project work has been added to this 2024 CIP as a result of the Well Assessment. See Project #24, #26, and #28, below. It is recommended that the remaining project work recommended by the Well Assessment be included in the District's annual Water System Maintenance, Repair & Replacement budget.

The list of proposed projects included in this CIP focuses on the following:

- Replacement of aging infrastructure.
- Regulatory compliance.
- Eliminating existing deficiencies within the system.
- Increasing system reliability and water supply security.
- Water conservation.
- Improving operational cost efficiency.

This 2024 CIP provides descriptions of the recommended projects along with estimates of probable construction costs. The estimated cost of construction is presented in 2024 dollars. Each individual project cost included in this 2024 CIP includes a construction contingency and project cost allowances that have been added to the estimated cost of construction, as follows:

- Construction Contingency: 25%
- Project Cost Allowances:
    - Design/Engineering: 10%
    - Construction Management: 10%
    - Project Administration: 8%

Projects NOT INCLUDED in this September 2024 CIP

The following projects were previously included in the October 2023 CIP but are no longer included in this September 2024 CIP:

Solar at Well #5 Holland – This project is being eliminated entirely. Reasons include:

a. Lack of available space for solar panels due to the proposed water storage tank facility.
b. Recent changes to solar power credit system negatively impacting the financial payback and making the project not cost effective.

SCADA: Installation of XiO SCADA system was included in the recently completed USBR Grant project and this cost has been removed from the CIP.

Install Sonic Water Level Monitoring – Well #3 and Well #4. It is recommended that this project be included in the District's annual Water System Maintenance, Repair & Replacement budget. Cost is estimated as $10,000.00.

Complete a Groundwater and Well Assessment at all three Well Sites – This project has been completed.

Although identified in the recent Well Assessments, it is recommended that the following Well Improvement work be included in the District's annual Water System Maintenance, Repair & Replacement budget and not included in this CIP:

Well #4 – The following work was recommended by Well Assessment Study:

- Replace the oil lubricated pump with a water lubricated pump. Water lubricated column assembly, mobilization, pump removal and replacement labor. Cost is estimated at $50,000.00.
- Bail oil from well casing. Cost is estimated at $5,000.
- Video well survey (static). Cost is estimated at $2,000.

Well #5 – The following work was recommended by Well Assessment Study:

- Replace the oil lubricated pump with a water lubricated pump. Water lubricated column assembly, mobilization, pump removal and replacement labor. Cost is estimated at $50,000.00.
- Bail oil from well casing. Cost is estimated at $5,000.
- Video well survey (static). Cost is estimated at $2,000.

Recommended September 2024 Capital Improvement Program

Infrastructure Projects

1. Lead Service Pipe Study (Regulatory Compliance):

Section 116885 of the California Health and Safety Code (H&S Code, Lead Service Lines in Public Water Systems – Senate Bill 1398) requires all public water systems to compile an inventory of known partial or total lead user service lines in use in its distribution system. Once an inventory is prepared the public water system is required to propose a schedule to replace all known lead user service lines.

Based on Age, the District has previously identified existing pipelines within the system that are of unknown construction materials and that have the potential for containing lead. All other pipelines are of known construction materials with no lead potential. Using this information, a study was performed as a part of the recently completed USBR Grant project to expose randomly selected service lines and perform adequate testing to determine if the lines contain lead. No lead was discovered, and this project is now considered to be complete. A final pipeline inventory is being prepared and final

documentation submitted to the Division of Drinking Water to close out this CIP project. All cost has been removed from the current Capital Improvement Program.

2. Wharf Hydrant Replacement: **FUTURE PROJECT**

Some existing hydrants located in the central service area are substandard wharf hydrants that were installed during the installation of the original water system and are approximately 60-95 years old. A total of 24 wharf hydrants have been identified. A majority of these hydrants do not include isolation valves and are constructed with old steel pipe. The isolation of these hydrants for repair or due to accident, causes a significant impact on the surrounding users as the entire main water line has to be shut down. A comprehensive review of the existing hydrant locations throughout the district was completed for the 2008 CIP. It is proposed to remove/abandon 17 of the existing wharf hydrants due to redundancy, remove and replace 9 of the existing wharf hydrants at their current location and to install 5 new hydrants in alternative locations that better serves the Districts fire needs. Most of these hydrants will be replaced in conjunction with proposed Phase 1 and Phase 2 pipeline improvement projects included in this June 2024 CIP. This leaves 4 hydrants to be included in Future CIP project work or annual operations budget.

3. Valve Replacement/Installation: **PHASE ONE PROJECT**

There are approximately 70 valves located throughout the existing water system. Existing valves in the central service area are approximately 60-95 years old. The type of valves is sometimes unknown and valve placement is incomplete in many instances. Valves are essential for isolation of discrete service areas that currently cannot be isolated if a repair needs to be made. Currently it is necessary at times to shut down widespread areas to facilitate repairs due to insufficient valve placement. This is a huge inconvenience to businesses in particular. It is proposed that additional valves be installed within the central service area to improve operational efficiencies and limit shut down areas. Most of the valves will be replaced/installed in conjunction with adjacent Phase 1 and Phase 2 pipeline replacement projects. An additional 4 valves are included in Phase 1 of this 2024 CIP.

4. Meters (Regulatory Compliance): **PHASE ONE PROJECT**

State law requires all water providers to convert flat-rate water customers to metered services by the end of 2025. Upon recent completion of the USBR Grant project the District still has 56 flat rate water customers that need to be converted to a metered service. This number is down from the 141 flat rate services that the District had just six years ago, primarily as a result of real estate sales triggering meter placement (District Policy).

Without meters it is difficult for the District to determine the actual water usage within the District and the potential water loss due to the aging infrastructure. If water saving measures are implemented the District currently cannot monitor the usage to determine if the measures are effective. Approximately 42 meters were installed under the recently completed USBR Grant Project, reducing the number of flat rate customers to the 56 still requiring meter installation. The remaining meter installations are identified as CIP Project #4, scheduled for Phase One.

5. **Automatic Meter Reading Conversion:** **FUTURE PROJECT**

The reading of meters is a significant operational cost for the District that is then passed on to the consumer in their water rates. The conversion of the standard meters to an automatic meter reading system is a way to reduce the operational cost for the District and a way to provide better customer service to their users.

Pipeline Improvements:

Pipelines in the original central service area of the District are approximately 60-95 years old. These pipelines range from 2 to 6 inches in diameter and are comprised of steel, asbestos cement, galvanized steel and cast iron. Many of these pipelines have reached their useful life and need to be replaced as age results in increasing numbers of leaks, water loss, and service disruption. For example, the pipeline in the alley between Brown and Faber Streets (CIP Project #9) has had multiple leak repairs in past years. The District has prioritized replacement of these lines according to the need and age for many of these pipelines but reserves the right to adjust the priority with Board action in the case of an emergency or failure. At the time of replacement, the District is proposing to increase the size of each line to increase the available flow and to improve pressure for District customers. It is proposed to ultimately replace 15,740 lineal feet of pipeline, with 3,190 lineal feet included in CIP Phase 1, and 5,700 lineal feet included in CIP Phase 2, and the remainder in Future Projects. By necessity, these pipeline projects will also include replacement of 266 service connections from the water main to the meter. Individual pipeline projects will also include adjacent hydrant upgrades as well as valve installation and/or replacement.

There are three CIP project locations (Project #6, #7, #21) within the existing water distribution system that have been identified as having a gap or missing section of the water main. Infilling these gaps will provide redundant water supply to all users within the community core south of Durham Dayton Highway and will increase the available flow and pressure for all District customers.

The locations of the recommended pipeline improvements are shown on Exhibit A: *September 2024 Update, Capital Improvement Projects*. The projects are described in more detail, as follows:

Pipeline Projects:

PHASE ONE PIPELINE PROJECTS

9. **Alley Between Brown & Faber** - Replace existing 4" Main with new 6" Main (750'). This existing pipeline is currently the number one source of leaks within the District. This project improves flow capacity and system redundancy to the southern portion of the Service Area.

16. **Alley Between Campbell & Durham** - Replace existing 4" Main with new 8" Main (510'). This project improves flow capacity and system redundancy to the central portion of the Service Area.

20. **6" Back Yard Main on West PL of DUSD – Note that this project has been modified from the original project described in the October 2023 CIP.** It no longer includes replacing the existing 6" Main with new 8" Main (1,930') located into a new PUSD easement. The project will now abandon the existing 6" back

yard main and shift service connections from the rear to the front of the lots with connection to the existing 8: main located in Durham-Dayton Highway.

PHASE TWO PIPELINE PROJECTS

6. **Midway – Durham to Brown** - Install new 8" Main (990'). This project completes the pipeline loop. Loop distribution is the industry standard as it provides redundant distribution service to customers. This project improves flow capacity and system redundancy to the northeast portion of the Service Area.

10. Serviss Street - Replace existing 4" Main with new 8" Main (1,030'). This project improves flow capacity and system redundancy to the southern portion of the Service Area.

13. Alley Between Midway & Goodspeed - Replace existing 4" Main with new 8" Main (1,200'). This project improves flow capacity and system redundancy to the northern portion of the Service Area.

15. Alley Between Holland & Goodspeed - Replace existing 6" Main with new 8" Main (1,660'). This project improves flow capacity from Well Station #3 and system redundancy to the entire Service Area.

23. Holland Ave. Between Durham-Dayton Hwy & Tracy Ranch Rd - Replace existing 2" Main with new 8" Main (820'). This project improves flow capacity to the entire Service Area.

FUTURE PIPELINE PROJECTS

7. **South Midway** - Install new 8" Main (880'). This project completes the pipeline loop at the south end of the Service Area. This project improves flow capacity and system redundancy to the southern portion of the Service Area.

8. **Durham Dayton Hwy.** - Replace existing 6" Main with new 8" Main (680'). This project improves flow capacity and system redundancy to the northern portion of the Service Area.

11. Florida Lane - Replace existing 4" Main with new 8" Main (1,080'). This project improves flow capacity and system redundancy to the southern portion of the Service Area.

12. Brown Street - Replace existing 4" Main with new 8" Main (1,080'). Relocate Main from Alley into Brown Street and abandon Alley Main. Swing services from Alley to Brown Street. This project improves flow capacity and system redundancy to the southern portion of the Service Area.

14. Alley Between Campbell & Faber - Replace existing 4" Main with new 8" Main (620'). Relocate Main from Alley into Brown Street and abandon Alley Main. Swing services from Alley to Brown Street. This project improves flow capacity and system redundancy to the central portion of the Service Area.

17. Abandon Existing Main in Backyards south of Durham-Dayton Hwy. – Connect existing Services to 8" Main located in Durham Dayton. Swing services from the rear of lots to the front and abandon backyard easement.

18. **Alley West of Well #3 & South of Durham-Dayton Hwy.** – Replace existing 2" Main with new 8" Main (500'). This project improves flow capacity and system redundancy to the central portion of the Service Area.
19. **Alley Loop North of Durham Dayton & South DUSD/DPRD** - Replace existing 6" Main with new 8" Main (720'). Note – This project was partially completed by DUSD and DRPD (370'). This project improves flow capacity and system redundancy to the central portion of the Service Area.
20. **6" Back Yard Main near west Property Line of DUSD –** Abandon the back yard 6" main in place. Relocate all service connections from the rear of the lots to the front of the lots. Connect services to the 8" main on the west side of Durham-Dayton Highway.
21. **Goodspeed St. - Durham Dayton to Durham St. and Durham St. - Alley to Midway** – Install new 8" Main (990'). Note – Abandon the existing 4" pipeline located in the alley between Durham St and Durham/Dayton and swing services from the rear of lots to the front. This project improves flow capacity and system redundancy to the northeastern portion of the Service Area.
22. **Sakely Lane** - Replace existing 6" Main with new 6" Main (400'). Note – This project was partially completed by DUSD and DRPD (370'). This project improves flow capacity to a dead end main.

Well Improvements

Water supply to the District is currently from three wells. The wells are identified as follows:

Well Station #3 – Alley Well – Located on the west side of the Alley west of Goodspeed between Campbell and Durham Street. This is the oldest well in the system and is located on a small approximately 45'x75' parcel. Pump capacity is rated at 600 gpm.

Well Station #4 – Library Well – Located on the west side of Durham-Dayton Hwy near the Library. This is the smallest well site at approximately 40'x50'. Pump capacity is rated at 600 gpm.

Well Station #5 – Holland Well – Located on the east side of Holland near the southerly border of the Service Area. This is the largest well site at approximately 175'x210'. Pump capacity is rated at 1,100 gpm.

All well sites are currently fenced, and pumps and controls are located inside buildings.

Well Projects:

PHASE ONE WELL PROJECTS

24. **Well Station #3 Upgrades** – The Well Assessment recommends replacement of this well "within the next 5 years." Construct a new well on the existing parcel (obtain DDW waiver) and properly abandon the existing well. Replace the existing building. Install standby generator with enclosure. Cost includes piping modifications and new pumping equipment.

FUTURE WELL PROJECTS

25. **Well #5 – 1.0 Million Gallon Water Storage Tank with Booster Pump Station –** The Booster Pump Station would be sized to meet peak hour demands plus fire flow.
26. **Well #4 Replacement -** The Well Assessment recommends replacement of this well "within the next 5 -10 years." Construct a new well on the existing parcel (obtain DDW waiver) and properly abandon the existing well. Cost includes piping modifications, new pumping equipment, and building modifications.
27. **Well #5 Lining –** The Well Assessment recommends replacement OR lining of this well "within the next 10-15 years." Line the existing well. Cost includes generator modifications and new pumping equipment.

Project Phasing

For financing purposes, the Capital Projects have been broken into phases. Estimated costs per Phase are as follows:

Phase One Pipeline and Well Projects	$2,394,679.50
Phase Two Pipeline Projects	$2,179,867.50
Subtotal of Phase One and Phase Two	**$4,574,547.00**
Additional Future Projects	$5,383,790.00
Total Capital Project Budget	$9,958,337.00

All projects are listed, with estimated cost and phasing, on *Exhibit B: Capital Improvement Program, Project List and Project Costs, September 2024 Update*.

Exhibits

Exhibit A: September 2024 Update, Capital Improvement Projects (Map)
Exhibit B: Capital Improvement Program, Project List and Project Costs, September 2024 Update

September 27, 2024

JEANNIE TRIZZINO
DURHAM IRRIGATION DISTRICT
POST OFFICE BOX 98
DURHAM, CA 95938

RE: DRINKING WATER MONITORING

Enclosed are the results of analyses for samples received by our laboratory on 8/5/2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bryan Ervin
Chico Location - Supervisor

2218 Railroad Avenue
Redding, California 96001
voice 530.243.7234
fax 530.243.7494

Analytical Report

Report To: DURHAM IRRIGATION DISTRICT
POST OFFICE BOX 98
DURHAM, CA 95938
Attention: JEANNIE TRIZZINO
Project: DRINKING WATER MONITORING

Lab No: 24H0183
Reported: 09/27/24
Phone: (530) 343-1594

The following pages contain the laboratory results for Work Order 24H0183, received on 08/05/24. All analyses were performed in strict adherence to our established Quality Manual. Any qualifications or abnormalities are listed in the Notes and Definitions and/or the Case Narrative section of this report. The project Chain of Custody and laboratory sample receipt record are included as attachments to this report.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
24H0183-01	WELL 3	Drinking Water	08/05/2024	08/05/2024
24H0183-03	WELL 4	Drinking Water	08/05/2024	08/05/2024
24H0183-04	WELL 4 - FIELD BLANK	Blank	08/05/2024	08/05/2024
24H0183-05	WELL 5	Drinking Water	08/05/2024	08/05/2024

Subcontracted Testing

The following samples were subcontracted to an alternative laboratory for test methods listed. The test reports for the subcontracted tests are included as attachments, immediately following the signauture page.

PFAS by EPA 533

24H0183-01 (WELL 3)
24H0183-03 (WELL 4)
24H0183-04 (WELL 4 - FIELD BLANK)
24H0183-05 (WELL 5)

2218 Railroad Avenue
Redding, California 96001
voice 530.243.7234
fax 530.243.7494

Notes and Definitions

ND	Analyte NOT DETECTED at or above the detection limit
RPD	Relative Percent Difference
MDL	Method Detection Limit
RL	Reporting Limit
* or #	The laboratory does not hold CA-ELAP accreditiation for this analyte or method. Accreditation may not be available from CA-ELAP for this analyte or method.
**	The laboratory holds accreditation for this analyte or method with WA-ECY Lab ID: Lab ID C783. Accreditation is not offered for this method by CA-ELAP
Note 2	According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

Accreditations Held:
Redding Location: CA-ELAP - Cert # 1677
Chico Location: CA-ELAP - Cert # 2718

Approved By

I certify that these results meet the requirements of the applicable accreditation standard, and were performed in compliance with the stated analytical methods unless otherwise noted in the qualifications or Case Narrative section of this report.

Approved By:_____

Bryan Ervin, Chico Location - Supervisor

Pace Analytical Services LLC - Redding CA

The data included in this report relate only to the specific items as received, recorded on the Chain of Custody, and analyzed at the laboratory. All data is expressed on a wet-weight basis unless otherwise noted. Interpretation and use of the information included in this report is the sole responsibility of the client. This report may not be reproduced except in full, and may not be modified in any way without prior written approval from Pace Analytical. Use of this report in whole or part for public advertising or any other commercial purpose requires prior written authorization.

BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

Lab Sample #	Client Sample ID	Matrix	Date Sampled	By	Date Submitted	By
C4H0538-01	24H0183-01 Well 3 003_003	Water	08/5/24 10:20	Adam Daigle	08/06/24 09:20	Fed Ex
C4H0538-03	24H0183-03 Well 4 004_004	Water	08/5/24 9:50	Adam Daigle	08/06/24 09:20	Fed Ex
C4H0538-04	24H0183-04 Well 4 - Field Blank 004_004 FB	Water	08/5/24 9:52	Adam Daigle	08/06/24 09:20	Fed Ex
C4H0538-05	24H0183-05 Well 5 005_005	Water	08/5/24 9:35	Adam Daigle	08/06/24 09:20	Fed Ex

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
C4H0538-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
24H0183-01 Well 3 003_003	Water	08/05/24 10:20	08/06/24 9:20

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Per-/Polyfluorinated Alkyl Substances							
Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluorohexanoic Acid (PFHxA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluoroheptanoic Acid (PFHpA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluorooctanoic Acid (PFOA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluorononanoic Acid (PFNA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluorodecanoic Acid (PFDA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluoroundecanoic Acid (PFUnA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluorododecanoic Acid (PFDoDA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluorobutanesulfonic Acid (PFBS)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluoropentanesulfonate (PFPeS)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	NRPDc
Perfluorooctanesulfonic Acid (PFOS)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
4:2 Fluorotelomer Sulfonate	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
6:2 Fluorotelomer Sulfonate	ND	4.5	ng/L	EPA 533	08/18/24 18:10	AZP	
8:2 Fluorotelomer Sulfonate	ND	4.5	ng/L	EPA 533	08/18/24 18:10	AZP	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
11-chloroeicosafluoro 3oxaundecane-1-sulfonic Acid	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
C4H0538-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
24H0183-01 Well 3 003_003	Water	08/05/24 10:20	08/06/24 9:20

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Per-/Polyfluorinated Alkyl Substances							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C9-PFNA-[IDA]	*76%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C8-PFOS-[IDA]	*86%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C8-PFOA-[IDA]	*80%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C7-PFUnA-[IDA]	*71%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C6-PFDA-[IDA]	*77%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C5-PFPeA-[IDA]	*71%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C5-PFHxA-[IDA]	*76%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C4-PFHpA-[IDA]	*75%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C4-PFBA-[IDA]	*73%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C3-PFHxS-[IDA]	*86%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C3-PFBS-[IDA]	*90%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C2-PFDoA-[IDA]	*77%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C2-8:2 FTS-[IDA]	*79%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C2-6:2-FTS-[IDA]	*87%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C2-4:2 FTS-[IDA]	*89%*	*50-200*		EPA 533	08/18/24 18:10	AZP	
Surrogate: 13C3-HFPO-DA-[IDA]	*72%*	*50-200*		EPA 533	08/18/24 18:10	AZP	

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Analytical Report: Page 4 of 20
Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
C4H0538-03

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
24H0183-03 Well 4 004_004	Water	08/05/24 09:50	08/06/24 9:20

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Per-/Polyfluorinated Alkyl Substances							
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluoropentanoic acid (PFPeA)	9.2	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluorohexanoic Acid (PFHxA)	14	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluoroheptanoic Acid (PFHpA)	5.0	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluorooctanoic Acid (PFOA)	7.5	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluorononanoic Acid (PFNA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluorodecanoic Acid (PFDA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluoroundecanoic Acid (PFUnA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluorododecanoic Acid (PFDoDA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluorobutanesulfonic Acid (PFBS)	2.2	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluoropentanesulfonate (PFPeS)	3.6	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluorohexanesulfonic Acid (PFHxS)	17	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	NRPDc
Perfluorooctanesulfonic Acid (PFOS)	10	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
4:2 Fluorotelomer Sulfonate	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
6:2 Fluorotelomer Sulfonate	ND	5.0	ng/L	EPA 533	08/18/24 18:48	AZP	
8:2 Fluorotelomer Sulfonate	ND	5.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
11-chloroeicosafluoro 3oxaundecane-1-sulfonic Acid	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
C4H0538-03

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
24H0183-03 Well 4 004_004	Water	08/05/24 09:50	08/06/24 9:20

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Per-/Polyfluorinated Alkyl Substances							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L	EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C9-PFNA-[IDA]	*71%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C8-PFOS-[IDA]	*92%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C8-PFOA-[IDA]	*71%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C7-PFUnA-[IDA]	*69%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C6-PFDA-[IDA]	*76%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C5-PFPeA-[IDA]	*68%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C5-PFHxA-[IDA]	*73%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C4-PFHpA-[IDA]	*73%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C4-PFBA-[IDA]	*70%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C3-PFHxS-[IDA]	*94%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C3-PFBS-[IDA]	*83%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C2-PFDoA-[IDA]	*66%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C2-8:2 FTS-[IDA]	*80%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C2-6:2-FTS-[IDA]	*87%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C2-4:2 FTS-[IDA]	*104%*	*50-200*		EPA 533	08/18/24 18:48	AZP	
Surrogate: 13C3-HFPO-DA-[IDA]	*66%*	*50-200*		EPA 533	08/18/24 18:48	AZP	

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
C4H0538-04

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
24H0183-04 Well 4 - Field Blank 004_004 FB	Water	08/05/24 09:52	08/06/24 9:20

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Per-/Polyfluorinated Alkyl Substances							
Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluorohexanoic Acid (PFHxA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluoroheptanoic Acid (PFHpA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluorooctanoic Acid (PFOA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluorononanoic Acid (PFNA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluorodecanoic Acid (PFDA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluoroundecanoic Acid (PFUnA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluorododecanoic Acid (PFDoDA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluorobutanesulfonic Acid (PFBS)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluoropentanesulfonate (PFPeS)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	NRPDc
Perfluorooctanesulfonic Acid (PFOS)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
4:2 Fluorotelomer Sulfonate	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
6:2 Fluorotelomer Sulfonate	ND	4.4	ng/L	EPA 533	08/18/24 19:06	AZP	
8:2 Fluorotelomer Sulfonate	ND	4.4	ng/L	EPA 533	08/18/24 19:06	AZP	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
11-chloroeicosafluoro 3oxaundecane-1-sulfonic Acid	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
C4H0538-04

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
24H0183-04 Well 4 - Field Blank 004_004 FB	Water	08/05/24 09:52	08/06/24 9:20

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Per-/Polyfluorinated Alkyl Substances							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C9-PFNA-[IDA]	*89%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C8-PFOS-[IDA]	*85%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C8-PFOA-[IDA]	*89%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C7-PFUnA-[IDA]	*75%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C6-PFDA-[IDA]	*90%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C5-PFPeA-[IDA]	*82%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C5-PFHxA-[IDA]	*86%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C4-PFHpA-[IDA]	*87%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C4-PFBA-[IDA]	*84%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C3-PFHxS-[IDA]	*79%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C3-PFBS-[IDA]	*85%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C2-PFDoA-[IDA]	*72%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C2-8:2 FTS-[IDA]	*77%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C2-6:2-FTS-[IDA]	*83%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C2-4:2 FTS-[IDA]	*82%*	*50-200*		EPA 533	08/18/24 19:06	AZP	
Surrogate: 13C3-HFPO-DA-[IDA]	*79%*	*50-200*		EPA 533	08/18/24 19:06	AZP	

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
C4H0538-05

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
24H0183-05 Well 5 005_005	Water	08/05/24 09:35	08/06/24 9:20

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Per-/Polyfluorinated Alkyl Substances							
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluorohexanoic Acid (PFHxA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluoroheptanoic Acid (PFHpA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluorooctanoic Acid (PFOA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluorononanoic Acid (PFNA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluorodecanoic Acid (PFDA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluoroundecanoic Acid (PFUnA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluorododecanoic Acid (PFDoDA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluorobutanesulfonic Acid (PFBS)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluoropentanesulfonate (PFPeS)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluorohexanesulfonic Acid (PFHxS)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	NRPDc
Perfluorooctanesulfonic Acid (PFOS)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
4:2 Fluorotelomer Sulfonate	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
6:2 Fluorotelomer Sulfonate	ND	5.0	ng/L	EPA 533	08/18/24 19:44	AZP	
8:2 Fluorotelomer Sulfonate	ND	5.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
11-chloroeicosafluoro 3oxaundecane-1-sulfonic Acid	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
C4H0538-05

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
24H0183-05 Well 5 005_005	Water	08/05/24 09:35	08/06/24 9:20

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Per-/Polyfluorinated Alkyl Substances							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L	EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C9-PFNA-[IDA]	*85%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C8-PFOS-[IDA]	*88%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C8-PFOA-[IDA]	*86%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C7-PFUnA-[IDA]	*83%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C6-PFDA-[IDA]	*91%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C5-PFPeA-[IDA]	*80%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C5-PFHxA-[IDA]	*85%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C4-PFHpA-[IDA]	*85%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C4-PFBA-[IDA]	*82%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C3-PFHxS-[IDA]	*78%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C3-PFBS-[IDA]	*81%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C2-PFDoA-[IDA]	*80%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C2-8:2 FTS-[IDA]	*85%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C2-6:2-FTS-[IDA]	*89%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C2-4:2 FTS-[IDA]	*90%*	*50-200*		EPA 533	08/18/24 19:44	AZP	
Surrogate: 13C3-HFPO-DA-[IDA]	*76%*	*50-200*		EPA 533	08/18/24 19:44	AZP	

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Per-/Polyfluorinated Alkyl Substances - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4H12047 - SPE										
Blank (4H12047-BLK1)				Prepared: 08/12/24 Analyzed: 08/18/24						
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic Acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic Acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic Acid (PFOA)	ND	2.0	ng/L							
Perfluorononanoic Acid (PFNA)	ND	2.0	ng/L							
Perfluorodecanoic Acid (PFDA)	ND	2.0	ng/L							
Perfluoroundecanoic Acid (PFUnA)	ND	2.0	ng/L							
Perfluorododecanoic Acid (PFDoDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic Acid (PFBS)	ND	2.0	ng/L							
Perfluoropentanesulfonate (PFPeS)	ND	2.0	ng/L							
Perfluorohexanesulfonic Acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
Perfluorooctanesulfonic Acid (PFOS)	ND	2.0	ng/L							
4:2 Fluorotelomer Sulfonate	ND	2.0	ng/L							
6:2 Fluorotelomer Sulfonate	ND	5.0	ng/L							
8:2 Fluorotelomer Sulfonate	ND	5.0	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L							
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	ND	2.0	ng/L							
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	ND	2.0	ng/L							
11-chloroeicosafluoro 3oxaundecane-1-sulfonic	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Per-/Polyfluorinated Alkyl Substances - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4H12047 - SPE										
Blank (4H12047-BLK1)				Prepared: 08/12/24 Analyzed: 08/18/24						
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Surrogate: 13C9-PFNA-[IDA]	*15.0*		ng/L	*20.0*		*75*	*50-200*			
Surrogate: 13C8-PFOS-[IDA]	*15.1*		ng/L	*19.1*		*79*	*50-200*			
Surrogate: 13C8-PFOA-[IDA]	*16.3*		ng/L	*20.0*		*81*	*50-200*			
Surrogate: 13C7-PFUnA-[IDA]	*14.8*		ng/L	*20.0*		*74*	*50-200*			
Surrogate: 13C6-PFDA-[IDA]	*15.3*		ng/L	*20.0*		*77*	*50-200*			
Surrogate: 13C5-PFPeA-[IDA]	*13.8*		ng/L	*20.0*		*69*	*50-200*			
Surrogate: 13C5-PFHxA-[IDA]	*14.7*		ng/L	*20.0*		*73*	*50-200*			
Surrogate: 13C4-PFHpA-[IDA]	*15.3*		ng/L	*20.0*		*76*	*50-200*			
Surrogate: 13C4-PFBA-[IDA]	*14.2*		ng/L	*20.0*		*71*	*50-200*			
Surrogate: 13C3-PFHxS-[IDA]	*14.3*		ng/L	*18.9*		*76*	*50-200*			
Surrogate: 13C3-PFBS-[IDA]	*14.8*		ng/L	*18.6*		*80*	*50-200*			
Surrogate: 13C2-PFDoA-[IDA]	*14.7*		ng/L	*20.0*		*73*	*50-200*			
Surrogate: 13C2-8:2 FTS-[IDA]	*55.7*		ng/L	*76.8*		*73*	*50-200*			
Surrogate: 13C2-6:2-FTS-[IDA]	*62.3*		ng/L	*76.0*		*82*	*50-200*			
Surrogate: 13C2-4:2 FTS-[IDA]	*60.0*		ng/L	*74.8*		*80*	*50-200*			
Surrogate: 13C3-HFPO-DA-[IDA]	*14.5*		ng/L	*20.0*		*73*	*50-200*			

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Per-/Polyfluorinated Alkyl Substances - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4H12047 - SPE										
LCS (4H12047-BS1)				Prepared: 08/12/24 Analyzed: 08/18/24						
Perfluorobutanoic acid (PFBA)	2.2	2.0	ng/L	2.00		110	50-150			
Perfluoropentanoic acid (PFPeA)	1.7	2.0	ng/L	2.00		85	50-150			
Perfluorohexanoic Acid (PFHxA)	2.2	2.0	ng/L	2.00		112	50-150			
Perfluoroheptanoic Acid (PFHpA)	2.1	2.0	ng/L	2.00		104	50-150			
Perfluorooctanoic Acid (PFOA)	1.9	2.0	ng/L	2.00		96	50-150			
Perfluorononanoic Acid (PFNA)	2.0	2.0	ng/L	2.00		99	50-150			
Perfluorodecanoic Acid (PFDA)	2.0	2.0	ng/L	2.00		99	50-150			
Perfluoroundecanoic Acid (PFUnA)	2.1	2.0	ng/L	2.00		107	50-150			
Perfluorododecanoic Acid (PFDoDA)	2.0	2.0	ng/L	2.00		98	50-150			
Perfluorobutanesulfonic Acid (PFBS)	1.5	2.0	ng/L	2.00		76	50-150			
Perfluoropentanesulfonate (PFPeS)	1.9	2.0	ng/L	2.00		94	50-150			
Perfluorohexanesulfonic Acid (PFHxS)	1.4	2.0	ng/L	2.00		70	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.9	2.0	ng/L	2.00		94	50-150			
Perfluorooctanesulfonic Acid (PFOS)	1.3	2.0	ng/L	2.00		66	50-150			
4:2 Fluorotelomer Sulfonate	1.7	2.0	ng/L	2.00		85	50-150			
6:2 Fluorotelomer Sulfonate	1.9	5.0	ng/L	2.00		93	50-150			
8:2 Fluorotelomer Sulfonate	1.5	5.0	ng/L	2.00		76	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.9	2.0	ng/L	2.00		96	50-150			
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	2.0	2.0	ng/L	2.00		102	50-150			
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	2.1	2.0	ng/L	2.00		106	50-150			
11-chloroeicosafluoro 3oxaundecane-1-sulfonic	1.6	2.0	ng/L	2.00		78	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.1	2.0	ng/L	2.00		104	50-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.9	2.0	ng/L	2.00		97	50-150			

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Per-/Polyfluorinated Alkyl Substances - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4H12047 - SPE										
LCS (4H12047-BS1)				Prepared: 08/12/24 Analyzed: 08/18/24						
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.0	2.0	ng/L	2.00		100	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.9	2.0	ng/L	2.00		95	50-150			
Surrogate: 13C9-PFNA-[IDA]	*17.9*		ng/L	*20.0*		*89*	*50-200*			
Surrogate: 13C8-PFOS-[IDA]	*17.2*		ng/L	*19.1*		*90*	*50-200*			
Surrogate: 13C8-PFOA-[IDA]	*18.8*		ng/L	*20.0*		*94*	*50-200*			
Surrogate: 13C7-PFUnA-[IDA]	*17.3*		ng/L	*20.0*		*87*	*50-200*			
Surrogate: 13C6-PFDA-[IDA]	*18.3*		ng/L	*20.0*		*92*	*50-200*			
Surrogate: 13C5-PFPeA-[IDA]	*16.7*		ng/L	*20.0*		*84*	*50-200*			
Surrogate: 13C5-PFHxA-[IDA]	*16.8*		ng/L	*20.0*		*84*	*50-200*			
Surrogate: 13C4-PFHpA-[IDA]	*17.8*		ng/L	*20.0*		*89*	*50-200*			
Surrogate: 13C4-PFBA-[IDA]	*15.7*		ng/L	*20.0*		*79*	*50-200*			
Surrogate: 13C3-PFHxS-[IDA]	*17.3*		ng/L	*18.9*		*92*	*50-200*			
Surrogate: 13C3-PFBS-[IDA]	*17.4*		ng/L	*18.6*		*93*	*50-200*			
Surrogate: 13C2-PFDoA-[IDA]	*17.1*		ng/L	*20.0*		*85*	*50-200*			
Surrogate: 13C2-8:2 FTS-[IDA]	*69.3*		ng/L	*76.8*		*90*	*50-200*			
Surrogate: 13C2-6:2-FTS-[IDA]	*69.3*		ng/L	*76.0*		*91*	*50-200*			
Surrogate: 13C2-4:2 FTS-[IDA]	*68.1*		ng/L	*74.8*		*91*	*50-200*			
Surrogate: 13C3-HFPO-DA-[IDA]	*17.3*		ng/L	*20.0*		*86*	*50-200*			

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Per-/Polyfluorinated Alkyl Substances - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4H12047 - SPE										
LCS (4H12047-BS2)				Prepared: 08/12/24 Analyzed: 08/18/24						
Perfluorobutanoic acid (PFBA)	20	2.0	ng/L	20.0		100	70-130			
Perfluoropentanoic acid (PFPeA)	20	2.0	ng/L	20.0		101	70-130			
Perfluorohexanoic Acid (PFHxA)	20	2.0	ng/L	20.0		98	70-130			
Perfluoroheptanoic Acid (PFHpA)	21	2.0	ng/L	20.0		106	70-130			
Perfluorooctanoic Acid (PFOA)	21	2.0	ng/L	20.0		104	70-130			
Perfluorononanoic Acid (PFNA)	21	2.0	ng/L	20.0		103	70-130			
Perfluorodecanoic Acid (PFDA)	19	2.0	ng/L	20.0		95	70-130			
Perfluoroundecanoic Acid (PFUnA)	22	2.0	ng/L	20.0		108	70-130			
Perfluorododecanoic Acid (PFDoDA)	21	2.0	ng/L	20.0		106	70-130			
Perfluorobutanesulfonic Acid (PFBS)	22	2.0	ng/L	20.0		109	70-130			
Perfluoropentanesulfonate (PFPeS)	22	2.0	ng/L	20.0		110	70-130			
Perfluorohexanesulfonic Acid (PFHxS)	25	2.0	ng/L	20.0		125	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	24	2.0	ng/L	20.0		120	70-130			
Perfluorooctanesulfonic Acid (PFOS)	21	2.0	ng/L	20.0		105	70-130			
4:2 Fluorotelomer Sulfonate	24	2.0	ng/L	20.0		121	70-130			
6:2 Fluorotelomer Sulfonate	22	5.0	ng/L	20.0		111	70-130			
8:2 Fluorotelomer Sulfonate	23	5.0	ng/L	20.0		116	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	21	2.0	ng/L	20.0		105	70-130			
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	19	2.0	ng/L	20.0		95	70-130			
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	21	2.0	ng/L	20.0		107	70-130			
11-chloroeicosafluoro 3oxaundecane-1-sulfonic	17	2.0	ng/L	20.0		86	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	20	2.0	ng/L	20.0		98	70-130			
Perfluoro-4-methoxybutanoic acid (PFMBA)	20	2.0	ng/L	20.0		101	70-130			

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Per-/Polyfluorinated Alkyl Substances - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4H12047 - SPE										
LCS (4H12047-BS2)				Prepared: 08/12/24 Analyzed: 08/18/24						
Perfluoro-3-methoxypropanoic acid (PFMPA)	20	2.0	ng/L	20.0		102	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	21	2.0	ng/L	20.0		107	70-130			
Surrogate: 13C9-PFNA-[IDA]	*16.9*		ng/L	*20.0*		*84*	*50-200*			
Surrogate: 13C8-PFOS-[IDA]	*17.7*		ng/L	*19.1*		*92*	*50-200*			
Surrogate: 13C8-PFOA-[IDA]	*16.7*		ng/L	*20.0*		*84*	*50-200*			
Surrogate: 13C7-PFUnA-[IDA]	*16.0*		ng/L	*20.0*		*80*	*50-200*			
Surrogate: 13C6-PFDA-[IDA]	*17.9*		ng/L	*20.0*		*89*	*50-200*			
Surrogate: 13C5-PFPeA-[IDA]	*15.9*		ng/L	*20.0*		*79*	*50-200*			
Surrogate: 13C5-PFHxA-[IDA]	*16.5*		ng/L	*20.0*		*83*	*50-200*			
Surrogate: 13C4-PFHpA-[IDA]	*16.0*		ng/L	*20.0*		*80*	*50-200*			
Surrogate: 13C4-PFBA-[IDA]	*15.8*		ng/L	*20.0*		*79*	*50-200*			
Surrogate: 13C3-PFHxS-[IDA]	*15.8*		ng/L	*18.9*		*83*	*50-200*			
Surrogate: 13C3-PFBS-[IDA]	*17.2*		ng/L	*18.6*		*92*	*50-200*			
Surrogate: 13C2-PFDoA-[IDA]	*16.3*		ng/L	*20.0*		*81*	*50-200*			
Surrogate: 13C2-8:2 FTS-[IDA]	*68.0*		ng/L	*76.8*		*89*	*50-200*			
Surrogate: 13C2-6:2-FTS-[IDA]	*69.9*		ng/L	*76.0*		*92*	*50-200*			
Surrogate: 13C2-4:2 FTS-[IDA]	*67.3*		ng/L	*74.8*		*90*	*50-200*			
Surrogate: 13C3-HFPO-DA-[IDA]	*15.5*		ng/L	*20.0*		*77*	*50-200*			

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Per-/Polyfluorinated Alkyl Substances - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4H12047 - SPE										
LCS Dup (4H12047-BSD1)				Prepared: 08/12/24 Analyzed: 08/18/24						
Perfluorobutanoic acid (PFBA)	2.2	2.0	ng/L	2.00		108	50-150	1	50	
Perfluoropentanoic acid (PFPeA)	1.9	2.0	ng/L	2.00		94	50-150	10	50	
Perfluorohexanoic Acid (PFHxA)	2.3	2.0	ng/L	2.00		115	50-150	3	50	
Perfluoroheptanoic Acid (PFHpA)	2.1	2.0	ng/L	2.00		103	50-150	1	50	
Perfluorooctanoic Acid (PFOA)	2.1	2.0	ng/L	2.00		104	50-150	8	50	
Perfluorononanoic Acid (PFNA)	2.1	2.0	ng/L	2.00		105	50-150	6	50	
Perfluorodecanoic Acid (PFDA)	2.1	2.0	ng/L	2.00		106	50-150	7	50	
Perfluoroundecanoic Acid (PFUnA)	2.2	2.0	ng/L	2.00		111	50-150	4	50	
Perfluorododecanoic Acid (PFDoDA)	2.2	2.0	ng/L	2.00		109	50-150	11	50	
Perfluorobutanesulfonic Acid (PFBS)	2.0	2.0	ng/L	2.00		99	50-150	27	50	
Perfluoropentanesulfonate (PFPeS)	2.3	2.0	ng/L	2.00		116	50-150	21	50	
Perfluorohexanesulfonic Acid (PFHxS)	2.0	2.0	ng/L	2.00		101	50-150	36	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.1	2.0	ng/L	2.00		53	50-150	56	50	QRPDc
Perfluorooctanesulfonic Acid (PFOS)	1.8	2.0	ng/L	2.00		91	50-150	32	50	
4:2 Fluorotelomer Sulfonate	1.6	2.0	ng/L	2.00		81	50-150	5	50	
6:2 Fluorotelomer Sulfonate	1.4	5.0	ng/L	2.00		71	50-150	26	50	
8:2 Fluorotelomer Sulfonate	2.0	5.0	ng/L	2.00		102	50-150	29	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.1	2.0	ng/L	2.00		105	50-150	8	50	
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	2.1	2.0	ng/L	2.00		106	50-150	4	50	
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	2.1	2.0	ng/L	2.00		107	50-150	1	50	
11-chloroeicosafluoro 3oxaundecane-1-sulfonic	1.9	2.0	ng/L	2.00		94	50-150	18	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.1	2.0	ng/L	2.00		107	50-150	2	50	
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.3	2.0	ng/L	2.00		116	50-150	18	50	

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Per-/Polyfluorinated Alkyl Substances - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 4H12047 - SPE										
LCS Dup (4H12047-BSD1)				Prepared: 08/12/24 Analyzed: 08/18/24						
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.4	2.0	ng/L	2.00		120	50-150	18	50	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.0	2.0	ng/L	2.00		98	50-150	4	50	
Surrogate: 13C9-PFNA-[IDA]	*17.1*		ng/L	*20.0*		*85*	*50-200*			
Surrogate: 13C8-PFOS-[IDA]	*16.4*		ng/L	*19.1*		*86*	*50-200*			
Surrogate: 13C8-PFOA-[IDA]	*18.0*		ng/L	*20.0*		*90*	*50-200*			
Surrogate: 13C7-PFUnA-[IDA]	*16.2*		ng/L	*20.0*		*81*	*50-200*			
Surrogate: 13C6-PFDA-[IDA]	*18.3*		ng/L	*20.0*		*91*	*50-200*			
Surrogate: 13C5-PFPeA-[IDA]	*15.8*		ng/L	*20.0*		*79*	*50-200*			
Surrogate: 13C5-PFHxA-[IDA]	*16.3*		ng/L	*20.0*		*82*	*50-200*			
Surrogate: 13C4-PFHpA-[IDA]	*15.9*		ng/L	*20.0*		*80*	*50-200*			
Surrogate: 13C4-PFBA-[IDA]	*15.2*		ng/L	*20.0*		*76*	*50-200*			
Surrogate: 13C3-PFHxS-[IDA]	*16.7*		ng/L	*18.9*		*88*	*50-200*			
Surrogate: 13C3-PFBS-[IDA]	*16.0*		ng/L	*18.6*		*86*	*50-200*			
Surrogate: 13C2-PFDoA-[IDA]	*16.0*		ng/L	*20.0*		*80*	*50-200*			
Surrogate: 13C2-8:2 FTS-[IDA]	*63.2*		ng/L	*76.8*		*82*	*50-200*			
Surrogate: 13C2-6:2-FTS-[IDA]	*66.5*		ng/L	*76.0*		*88*	*50-200*			
Surrogate: 13C2-4:2 FTS-[IDA]	*64.6*		ng/L	*74.8*		*86*	*50-200*			
Surrogate: 13C3-HFPO-DA-[IDA]	*16.2*		ng/L	*20.0*		*81*	*50-200*			

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Notes and Definitions

NRPDc	The RPD value for the LCS/LCSD did not meet laboratory acceptance criteria.
QRPDc	
ND:	Analyte NOT DETECTED at or above the Method Detection Limit **(if MDL is reported)**, otherwise at or above the Reportable Detection Limit (RDL)
NR:	Not Reported
RDL:	Reportable Detection Limit
MDL:	Method Detection Limit
* / (Non-NELAP):	NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

Amanda Christy Porter

cc:

e-Standard_No Alias.rpt

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Subcontract Order and Custody Chain
Pace Analytical - Redding ID: 24H0183

Receiving lab ID:

SENDING LABORATORY:
Pace Analytical Services LLC - Redding
2218 Railroad Avenue
Redding, CA 96001-2504
Phone: (530) 243-7234
Nikki Aceituno

RECEIVING LABORATORY:
BABCOCK LABORATORIES, INC
POST OFFICE BOX 432
RIVERSIDE, CA 92502-0432
Phone: (951) 653-3351
Sample Receiving

Please use standard TAT unless specific due date is requested.
Email results, EDDs, & any Element transfer files to ReddingClientServices@pacelabs.com
Please report results to MDL

Sample ID: 24H0183-01 WELL 3 **Collected: 08/05/24 10:20**

Sample Matrix: Drinking Water
Sampled By: ADAM DAIGLE
Regulatory ID: CA0410003_003_003

Analysis/EDD Requested:
~EDT - CLIP SUB-BAB
533 - PFAS SUB-BAB

Analysis/EDD Comments:

Containers Supplied:
250 mL Poly w ammonium acetate (A) 250 mL Poly w ammonium acetate (B)

Sample ID: 24H0183-02 WELL 3 - FIELD BLANK **Collected: 08/05/24 10:22**

TA05#118

Sample Matrix: Blank / Blank
Sampled By: ADAM DAIGLE
Regulatory ID:

Analysis/EDD Requested:
533 - PFAS SUB-BAB

Analysis/EDD Comments:

Containers Supplied:
250 mL Poly w ammonium acetate (A)

2 .cT -73

Sample ID: 24H0183-03 WELL 4 **Collected: 08/05/24 09:50**

On Ice (3) NO

samples intact (3) NO

Sample Matrix: Drinking Water
Sampled By: ADAM DAIGLE
Regulatory ID: CA410003_004_004

Analysis/EDD Requested:
533 - PFAS SUB-BAB

Analysis/EDD Comments:

Containers Supplied:
250 mL Poly w ammonium acetate (A) 250 mL Poly w ammonium acetate (B)

C4H0538
Rc'd: 08/06/2024 09:20
JLH

Released By 8.5.24 Date Received By Date

Released By Date Received By 8-6-24 920 Date

Page 1 of 2

Client Name: Pace Analytical Services Redding
Contact: Nikki Aceituno
Address: 2218 Railroad Ave.
Redding, CA 96001

Report Date: 25-Sep-2024

Analytical Report: Page 20 of 20
Project Name: PFAS
Project Number: 24H0183

Work Order Number: C4H0538
Received on Ice (Y/N): Yes Temp: 2 °C

Subcontract Order and Custody Chain
Pace Analytical - Redding ID: 24H0183

Receiving lab ID:

Sample ID: 24H0183-04 WELL 4 - FIELD BLANK **Collected: 08/05/24 09:52**

Sample Matrix: Blank / Blank
Sampled By: ADAM DAIGLE
Regulatory ID:

Analysis/EDD Requested:
533 - PFAS SUB-BAB

Analysis/EDD Comments:

Containers Supplied:
250 mL Poly w ammonium acetate (A)

Sample ID: 24H0183-05 WELL 5 **Collected: 08/05/24 09:35**

Sample Matrix: Drinking Water
Sampled By: ADAM DAIGLE
Regulatory ID: CA0410003_005_005

Analysis/EDD Requested:
533 - PFAS SUB-BAB

Analysis/EDD Comments:

Containers Supplied:
250 mL Poly w ammonium acetate (A) 250 mL Poly w ammonium acetate (B)

Sample ID: 24H0183-06 WELL 5 - FIELD BLANK **Collected: 08/05/24 09:37** TAS #118

Sample Matrix: Blank / Blank
Sampled By: ADAM DAIGLE
Regulatory ID:

Analysis/EDD Requested:
533 - PFAS SUB-BAB

Analysis/EDD Comments:

Containers Supplied:
250 mL Poly w ammonium acetate (A)

2 °C T-73
On Ice (Y) NO
Samples Intact (YES) NO

C4H0538
Rc'd: 08/06/2024 09:20
JLH

Released By 8-5-24 Date Received By Date
Released By Date Received By 8-6-24 920 Date

Page 2 of 2

BASIC LABORATORY, INC. - CHAIN OF CUSTODY (STANDARD)

☐ 2218 Railroad Avenue, Redding, CA 96001 (530) 243-7234 FAX (530) 243-7494

☑ 3860 Morrow Lane, Suite F Chico, CA 95928 (530) 894-8966 FAX: (530) 894-5143

LABORATORY WORK ORDER # 24H0183

PAGE _____ OF _____

CLIENT NAME: DURHAM IRRIGATION DISTRICT

PROJECT NAME: DRINKING WATER MONITORING

PROJECT / PO #:

PWS # (If Applicable): CA0410003 DDW

MAILING ADDRESS: POST OFFICE BOX 98, DURHAM, CA 95938

REPORT TO ☑ Email ☐ Mail Hardcopy

NAME / ATTENTION: Jeannie Trizzino

PHONE: (530) 343-1594

TURN AROUND TIME REQUESTED ☐ Standard ☐ Rush _____

INVOICE TO: DURHAM IRRIGATION DISTRICT

EMAIL: admin@didwater.org

SPECIAL INSTRUCTIONS / PO#:

☑ Regulatory ☐ Non-Regulatory

QC Reported? (check one) ☐ None ☑ STD ☐ Other

Do you require Electronic Data Deliverables (EDD)? ☑ Yes ☐ No What Type? CLIP

ID # (Lab Use Only)	DATE SAMPLED	TIME SAMPLED		SAMPLE TYPE*	Comp	Grab	SAMPLE LOCATION / IDENTIFICATION / DESCRIPTION	REGULATORY ID / SOURCE CODE (if Applicable)	NUMBER OF CONTAINERS	EPA 533.1 PFAS
-1	8/5/24	10:20	AM PM	DWS		✓	WELL 3	CA0410003_003_003	2	✓
-2	8/5/24	10:22	AM PM	OT		✓	WELL 3 -Field Blank		1	✓
-3	8/5/24	9:50	AM PM	DWS		✓	WELL 4	CA0410003_004_004	2	✓
-4	8/5/24	9:52	AM PM	OT		✓	WELL 4 -Field Blank		1	✓
-5	8/5/24	9:35	AM PM	DWS		✓	WELL 5	CA0410003_005_005	2	✓
-6	8/5/24	9:37	AM PM	OT			WELL 5 -Field Blank		1	✓
			AM PM							
			AM PM							
			AM PM							
			AM PM							

ANALYSES REQUESTED

SAMPLED BY: (please print) ADAM DAIGLE

RELINQUISHED DATE / TIME: 8/5/24 10:52

SAMPLING / ANALYSIS COMMENTS

☑ I authorize Basic Laboratory to perform the indicated tests. By signing I agree to Basic Laboratory's TERMS and CONDITIONS. (www.basiclab.com/terms)

NAME: ADAM DAIGLE SIGNATURE: Adam DAIGLE DATE: 8/5/24

RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
RECEIVED BY LAB	DATE/TIME	LOGGED BY LAB	DATE/TIME
CB	8.5.24 1052	CB	

For Official Lab Comments Only

*SAMPLE TYPE CODES

DW = Drinking Water
DWS=Drinking Water Source
WW = Wastewater
GW = Groundwater
STW = Stormwater
SW = Surface Water
RW = Rain Water

SLG = Sludge
SO = Soil
SDW = Solid Waste
OL = Oil
OT = Other (Specify)

FRM-002.1 - Chain of Custody (rev 1.1)

SAMPLE RECEIPT CHECKLIST

WO NUMBER 24H0183

Samples Received Via:

Fed-Ex ☐ Client Walk-In ☒ Courier ☐
UPS ☐ Pace Field Service ☐ Other ☐

Samples Received By: CB Date: 8.5.24 Time: 1052
Are samples for regulatory compliance? Yes ☒ No ☐

THERMAL PRESERVATION

Were samples received in a cooler? Yes ☒ No ☐ If no, take temperature of representative sample container and record below.
If no, do they require thermal preservation? Yes ☐ No ☐ If no, why not? Non-regulatory ☐ Not Required by Method ☐
Samples received on ice? Yes ☒ No ☐ Ice type? Wet ☒ Ice Packs ☐ Other _____
Samples received the same day collected? Yes ☐ No ☐

Therm. ID (Circle one): Therm-36(IR) Therm-59(IR) Therm-72(IR) Therm-73(IR) (Therm-C01(IR)) Therm-C02(IR) Other: _____

Cooler #1 Init. Temp °C 1.3 Correction °C +0.2 Corrected Temp °C 1.5
Cooler #2 Init. Temp °C _____ Correction °C _____ Corrected Temp °C _____
Cooler #3 Init. Temp °C _____ Correction °C _____ Corrected Temp °C _____
No Cooler - Representative Sample Temperature: Init. Temp °C _____ Correction °C _____ Corrected Temp °C _____

Do samples received meet thermal preservation requirements? Yes ☒ No ☐ N/A ☐
Thermal Preservation Notes/Discrepancies/Nonconformances:

SAMPLE CONDITION AND PROCESSING

Do all sample IDs on labels match the COC? Yes ☐ No ☐
Custody seals present? Yes ☐ No ☐ N/A ☐
Samples in proper containers? Yes ☐ No ☐
Sample containers damaged? Yes ☐ No ☐
Sufficient sample volume for indicated tests? Yes ☐ No ☐
Samples received with sufficient holding time? Yes ☐ No ☐
Are VOA vials free of headspace? Yes ☐ No ☐ N/A ☐

Sample processing is done prior to collection. Verification is done by subcontract laboratory. CB 8/5/24

CHEMICAL PRESERVATION

Were the sample containers received with labels that indicate that appropriate preservatives were present for the indicated tests? ~~Yes~~ ☒ No ☐ N/A ☐
Were samples received properly dechlorinated? Yes ☐ No ☐ N/A ☐ For Dechlorination checks done by analysts, were dechlor. agent labels present? Yes ☐ No ☐
Are any of the pH verification checks or dechlorination checks being performed by a subcontract laboratory? ~~Yes~~ ☒ No ☐ N/A ☐ CB 8.5.24
Preservation checked by Sample Receiving? Initials_____ Date & Time _____ Test Strip (ID_____)
If preservative(s) were added by Sample Receiving, where they added at the same time as pH verification? Yes ☐ No ☐ N/A ☐ If no, Date & Time_____

	Yes	No	NA
H2SO4 preserved samples confirmed to pH <2 (i.e., E350.1, SM5220, SM5310)?	☐	☐	☐
HNO3 preserved samples confirmed to pH <2 (i.e., E200.7, E200.8, 6010)?	☐	☐	☐
NaOH preserved samples confirmed to pH >10 (cyanide) or >9 (sulfide)?	☐	☐	☐

Added upon sample receipt? Yes ☐ No ☐

Were any additional preservatives added after receipt because of a failed pH verification? Yes ☐ No ☐ Initial pH: _____ Final pH _____
If yes, is addition of preservatives allowed by the method? Yes ☐ No ☐ Were additional preservatives added on the date of sampling Yes ☐ No ☐
List preservatives added at receipt:
Type: _____ Volume Added:_____ ID:_____ Type: _____ Volume Added:_____ ID:_____
Type: _____ Volume Added:_____ ID:_____ Type: _____ Volume Added:_____ ID:_____

COMMENTS, DISCREPANCEIS, ANOMALIES, NONCONFORMANCES

September 23, 2024

JEANNIE TRIZZINO
DURHAM IRRIGATION DISTRICT
POST OFFICE BOX 98
DURHAM, CA 95938

RE: DRINKING WATER MONITORING

Enclosed are the results of analyses for samples received by our laboratory on 9/20/2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bryan Ervin
Chico Location - Supervisor

2218 Railroad Avenue
Redding, California 96001
voice 530.243.7234
fax 530.243.7494

Analytical Report

Report To: DURHAM IRRIGATION DISTRICT
POST OFFICE BOX 98
DURHAM, CA 95938
Attention: JEANNIE TRIZZINO
Project: DRINKING WATER MONITORING

Lab No: 24I0760
Reported: 09/23/24
Phone: (530) 343-1594

The following pages contain the laboratory results for Work Order 24I0760, received on 09/20/24. All analyses were performed in strict adherence to our established Quality Manual. Any qualifications or abnormalities are listed in the Notes and Definitions and/or the Case Narrative section of this report. The project Chain of Custody and laboratory sample receipt record are included as attachments to this report.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
24I0760-01	CAMPBELL ST	Drinking Water	09/20/2024	09/20/2024
24I0760-02	SERVISS ST	Drinking Water	09/20/2024	09/20/2024

2218 Railroad Avenue
Redding, California 96001
voice 530.243.7234
fax 530.243.7494

Analytical Report

Sample Results

Description: CAMPBELL ST
Matrix / Type: Drinking Water (Routine)
Lab ID: 24I0760-01
Sampled: 09/20/24 10:45
Received: 09/20/24 13:15

Microbiology - Redding Location

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch / Analyst
Total Coliforms	Present/Absent	Absent				SM 9223 B Colilert-18	09/21/24 10:50	09/20/24 16:50	B4I1755 / EDM
E. Coli	Present/Absent	Absent				SM 9223 B Colilert-18	09/21/24 10:50	09/20/24 16:50	B4I1755 / EDM

2218 Railroad Avenue
Redding, California 96001
voice 530.243.7234
fax 530.243.7494

Analytical Report

Description: SERVISS ST
Matrix / Type: Drinking Water (Routine)
Lab ID: 24I0760-02
Sampled: 09/20/24 11:00
Received: 09/20/24 13:15

Microbiology - Redding Location

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch / Analyst
Total Coliforms	Present/Absent	Absent				SM 9223 B Colilert-18	09/21/24 10:50	09/20/24 16:50	B4I1755 / EDM
E. Coli	Present/Absent	Absent				SM 9223 B Colilert-18	09/21/24 10:50	09/20/24 16:50	B4I1755 / EDM

Notes and Definitions

ND	Analyte NOT DETECTED at or above the detection limit
RPD	Relative Percent Difference
MDL	Method Detection Limit
RL	Reporting Limit
* or #	The laboratory does not hold CA-ELAP accreditiation for this analyte or method. Accreditation may not be available from CA-ELAP for this analyte or method.
**	The laboratory holds accreditation for this analyte or method with WA-ECY Lab ID: Lab ID C783. Accreditation is not offered for this method by CA-ELAP
Note 2	According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

Accreditations Held:
Redding Location: CA-ELAP - Cert # 1677
Chico Location: CA-ELAP - Cert # 2718

Approved By

I certify that these results meet the requirements of the applicable accreditation standard, and were performed in compliance with the stated analytical methods unless otherwise noted in the qualifications or Case Narrative section of this report.

Approved By:_____

Bryan Ervin, Chico Location - Supervisor

Pace Analytical Services LLC - Redding CA

2218 Railroad Avenue
Redding, California 96001
voice 530.243.7234
fax 530.243.7494

Analytical Report

DURHAM IRRIGATION DISTRICT
JEANNIE TRIZZINO
POST OFFICE BOX 98
DURHAM CA 95938

Report Date: 09/23/24
Lab Sample ID: 24I0760-01

System Name: DURHAM IRRIGATION DISTRICT
PS Code:
Client Sample ID: CAMPBELL ST
Sampled By: ADAM DAIGLE
Sample Type: Routine

Field Chlorine (mg/l): 0.52
Sample Date: 09/20/24 10:45
Sample Received: 09/20/24 13:15
System Number: CA0410003

Test results listed below with a valid CLIP code will be electronically submitted the state's drinking water database via the California Laboratory Intake Portal (CLIP). A copy all of the results on this page (with or without a valid CLIP code) will also be submitted directly to the appropriate regulatory agency as required by law. If you believe any information on this report to be inaccurate, please let us know as soon as possible.

Regulatory Agency CC: Division of Drinking Water - Dist 21 Valley

CLIP	MICROBIOLOGY	RESULTS	UNITS	RL	DLR	PRIMARY MCL / AL	SECONDARY MCL
	Total Coliforms	Absent	Present/Absent				
	E. Coli	Absent	Present/Absent				

2218 Railroad Avenue
Redding, California 96001
voice 530.243.7234
fax 530.243.7494

Analytical Report

DURHAM IRRIGATION DISTRICT
JEANNIE TRIZZINO
POST OFFICE BOX 98
DURHAM CA 95938

Report Date: 09/23/24
Lab Sample ID: 24I0760-02

System Name: DURHAM IRRIGATION DISTRICT
PS Code:
Client Sample ID: SERVISS ST
Sampled By: ADAM DAIGLE
Sample Type: Routine

Field Chlorine (mg/l): 0.65
Sample Date: 09/20/24 11:00
Sample Received: 09/20/24 13:15
System Number: CA0410003

Test results listed below with a valid CLIP code will be electronically submitted the state's drinking water database via the California Laboratory Intake Portal (CLIP). A copy all of the results on this page (with or without a valid CLIP code) will also be submitted directly to the appropriate regulatory agency as required by law. If you believe any information on this report to be inaccurate, please let us know as soon as possible.

Regulatory Agency CC: Division of Drinking Water - Dist 21 Valley

CLIP	MICROBIOLOGY	RESULTS	UNITS	RL	DLR	PRIMARY MCL / AL	SECONDARY MCL
	Total Coliforms	Absent	Present/Absent				
	E. Coli	Absent	Present/Absent				

Note 2 According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.
* Stars denote tiered Maximum Contaminant and/or Action Levels (* 250-500-600, ** 900-1600-2200, *** 500-1000-1500).
ND Not detected at the reporting limit
DLR California's Detection Limit for the purpose of reporting
RL Laboratory's Reporting Limit
MCL / AL Maximum Contaminant Level or Action Level
SECONDARY MCL California recognizes secondary MCLs, set to protect the odor, taste, and appearance of drinking water.

BASIC LABORATORY, INC. - CHAIN OF CUSTODY **(FOR DRINKING WATER - MICROBIOLOGY)**

LABORATORY WORK ORDER # 2410760

PAGE 1 OF 1

☐ 2218 Railroad Avenue, Redding, CA 96001 (530) 243-7234 FAX (530) 243-7494

☒ 3860 Morrow Lane, Suite F Chico, CA 95928 (530) 894-8966 FAX: (530) 894-5143

basic laboratory

CLIENT NAME	PROJECT NAME	PROJECT / PO #	PWS # (If Applicable)
DURHAM IRRIGATION DISTRICT	DRINKING WATER MONITORING		0410003 DDW

MAILING ADDRESS
POST OFFICE BOX 98
DURHAM, CA 95938

INVOICE TO
DURHAM IRRIGATION DISTRICT

SPECIAL INSTRUCTIONS / PO#

Contact for positive results:
Name: MICHAEL BUTLER
Phone: 530-680-7079
Alt. contact for positive results
Name: Jeannie Trizzino
Phone: (530) 343-1594
Weekend contact for positive results:
Name:
Phone:

REPORT TO ☒ Email ☐ Mail Hardcopy
NAME / ATTENTION: Jeannie Trizzino
PHONE: (530) 343-1594
EMAIL: admin@didwater.org
REGULATORY AGENCY: DIVISION OF DRINKING WATER

TURN AROUND TIME REQUESTED
☒ Standard ☐ Rush _____

ID # (Lab Use Only)	DATE SAMPLED	TIME SAMPLED		SAMPLE TYPE*	Comp	Grab	SAMPLE LOCATION / IDENTIFICATION / DESCRIPTION	REGULATORY ID / SOURCE CODE (if Applicable)	NUMBER OF CONTAINERS	ANALYSES REQUESTED: Field Chorine Residual (mg/L)	Total Coliforms / E. coli (Present / Absent)	Total Coliforms / E. coli (Enumerated - Quanti-Tray)
-1	9/20/24	10:45	AM PM	1			CAMPBELL ST.			.52	x	
-2	9/20/24	11:00	AM PM	1			SERVISS ST.			.65	x	
			AM PM									
			AM PM									
			AM PM									
			AM PM									
			AM PM									
			AM PM									
			AM PM									
			AM PM									

SAMPLED BY: (please print) ADAM D./SW

RELINQUISHED DATE / TIME: 9/20/24 1:15

SAMPLING / ANALYSIS COMMENTS

☒ I authorize Basic Laboratory to perform the indicated tests. By signing I agree to the TERMS and CONDITIONS. (www.basiclab.com/terms)

NAME: ADAM DAIGLE SIGNATURE: Adam Daigle DATE: 9/20/24

RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
RECEIVED BY LAB	DATE/TIME	LOGGED BY LAB	DATE/TIME
CB	9.20.24 1315	CB	

For Official Lab Comments Only

*SAMPLE TYPE CODES (NR = Non-Regulated)
1 - Routine
2 - Repeat
3 - Replacement
4 - Special *(Not sent to Regulator)*
5A - Source Groundwater
5B - Source Surface Water
6 - Other *(Sent to Regulator)*

FRM-002.2 - Chain of Custody (rev 1.1)

SAMPLE RECEIPT CHECKLIST

WO NUMBER 24I0760

Samples Received Via:
Fed-Ex ☐ Client Walk-In ☒ Courier ☐
UPS ☐ Pace Field Service ☐ Other ☐

Samples Received By: CB Date: 9.20.24 Time: 1315
Are samples for regulatory compliance? Yes ☒ No ☐

THERMAL PRESERVATION

Were samples received in a cooler? Yes ☒ No ☐ If no, take temperature of representative sample container and record below.
If no, do they require thermal preservation? Yes ☐ No ☐ If no, why not? Non-regulatory ☐ Not Required by Method ☐
Samples received on Ice? Yes ☒ No ☐ Ice type? Wet ☐ Ice Packs ☒ Other _____
Samples received the same day collected? Yes ☒ No ☐

Therm. ID (Circle one): Therm-36(IR) Therm-59(IR) Therm-72(IR) Therm-73(IR) (Therm-C01(IR)) Therm-C02(IR) Other: _____

Cooler #1 Init. Temp °C 17.0 Correction °C -0.2 Corrected Temp °C 17.2
Cooler #2 Init. Temp °C _____ Correction °C _____ Corrected Temp °C _____
Cooler #3 Init. Temp °C _____ Correction °C _____ Corrected Temp °C _____
No Cooler - Representative Sample Temperature: Init. Temp °C _____ Correction °C _____ Corrected Temp °C _____

Do samples received meet thermal preservation requirements? Yes ☐ No ☐ N/A ☒

Thermal Preservation Notes/Discrepancies/Nonconformances:

SAMPLE CONDITION AND PROCESSING

Do all sample IDs on labels match the COC? Yes ☒ No ☐
Custody seals present? Yes ☐ No ☐ N/A ☒
Samples in proper containers? Yes ☒ No ☐
Sample containers damaged? Yes ☐ No ☒
Sufficient sample volume for indicated tests? Yes ☒ No ☐
Samples received with sufficient holding time? Yes ☒ No ☐
Are VOA vials free of headspace? Yes ☐ No ☐ N/A ☒

CHEMICAL PRESERVATION

Were the sample containers received with labels that indicate that appropriate preservatives were present for the indicated tests? Yes ☐ No ☐ N/A ☒
Were samples received properly dechlorinated? Yes ☐ No ☐ N/A ☐ For Dechlorination checks done by analysts, were dechlor. agent labels present? Yes ☒ No ☐
Are any of the pH verification checks or dechlorination checks being performed by a subcontract laboratory? Yes ☐ No ☐ N/A ☒
Preservation checked by Sample Receiving? Initials_____ Date & Time _____ Test Strip (ID_____)
If preservative(s) were added by Sample Receiving, where they added at the same time as pH verification? Yes ☐ No ☐ N/A ☐ If no, Date & Time_____

	Yes	No	NA	
H2SO4 preserved samples confirmed to pH <2 (i.e., E350.1, SM5220, SM5310)?	☐	☐	☐	
HNO3 preserved samples confirmed to pH <2 (i.e., E200.7, E200.8, 6010)?	☐	☐	☐	Added upon sample receipt? Yes ☐ No ☐
NaOH preserved samples confirmed to pH >10 (cyanide) or >9 (sulfide)?	☐	☐	☐	

Were any additional preservatives added after receipt because of a failed pH verification? Yes ☐ No ☐ Initial pH: _____ Final pH _____
If yes, is addition of preservatives allowed by the method? Yes ☐ No ☐ Were additional preservatives added on the date of sampling Yes ☐ No ☐
List preservatives added at receipt:
Type: _____ Volume Added:_____ ID:_____ Type: _____ Volume Added:_____ ID:_____
Type: _____ Volume Added:_____ ID:_____ Type: _____ Volume Added:_____ ID:_____

COMMENTS, DISCREPANCEIS, ANOMALIES, NONCONFORMANCES

SAMPLE RECEIPT CHECKLIST

Samples Received Via Transfer from Chico to Redding Laboratory

Work Order Numbers: 2410743
744
745
746
760
761
762

Samples Received By: KC Date: 9/20/24 Time: 1606

THERMAL PRESERVATION

Were samples received in a cooler? Yes ☑ No ☐ If no, take temperature of representative sample container and record below.
If no, do they require thermal preservation? Yes ☐ No ☐ If no, why not? Non-regulatory ☐ Not Required by Method ☐
Samples received on ice? Yes ☑ No ☐ Ice type? Wet ☑ Ice Packs ☐ Other _____
Samples received the same day collected? Yes ☑ No ☐

Therm. ID (Circle one): Therm-36(IR) Therm-59(IR) Therm-72(IR) (Therm-73(IR)) Therm-C01(IR) Therm-C02(IR) Other: _____

Cooler #1 Init. Temp °C 5.8 Correction °C +0.3 Corrected Temp °C 6.1
Cooler #2 Init. Temp °C _____ Correction °C _____ Corrected Temp °C _____
Cooler #3 Init. Temp °C _____ Correction °C _____ Corrected Temp °C _____
No Cooler - Representative Sample Temperature: Init. Temp °C _____ Correction °C _____ Corrected Temp °C _____

Do samples received meet thermal preservation requirements? Yes ☑ No ☐ N/A ☐

Thermal Preservation Notes/Discrepancies/Nonconformances:

Contract Cost Summary

9
Johansson Cost Summary (09.2024)

Consultant: **Nicole Johansson**
Contract Period: N/A
Contract Date: 2/21/2024
Amt Authorized: $ 10,000.00
Amt. Remain: $ 7,236.53
% Remaning: 72.4%

Reg. Hourly Rate: $ 75.00
Crisis Rate: $ 150.00

				HOURS					
Invoice #	Inv. Date	Inv. Total	Exp.	Funding Opportunities	Media Relations	Legislative Opportunities	Community Outreach	Overall Management	Total Hours
1185 - April 2024	5/1/2024	$ 1,106.25	$ -	5.25	1.50	0.00	1.50	6.50	**14.75**
1184 - March 2024	4/1/2024	$ 1,657.22	$ 25.97	7.75	2.00	2.00	3.00	7.00	**100.25**
1193 - May 2024	6/1/2024	**$ 1,068.75**	$ -	7.75	0.00	0.00	0.50	6.00	**22.50**
1194 - June 2024	7/1/2024	**$ 618.75**	$ -	0.00	0.00	1.25	0.00	7.00	**49.50**
1203 - July 2024	8/1/2024	**$ 243.75**	$ -	2.00	0.00	0.00	1.50	1.25	**4.75**
		$ -							**36.50**
TOTAL		**$ 2,763.47**		**13.00**	**3.50**	**2.00**	**4.50**	**13.50**	**36.50**
$$ BUDGET REMAINING		**$ 7,236.53**							
% BUDGET REMAINING		**72.4%**							

Hours Spent to Date

Funding Opportunities	35.6%
Media Relations	9.6%
Legislative Opportunities	5.5%
Community Outreach	12.3%
Overall Management	37.0%

Date Prepared: 9/12/2024

Durham Irrigation Operator Log

Sierra Water Utility, LLC.

Month:	September 2024		
Date	Task Description/Notes	One Man Hrs and Duties (M-F)	Addtional Man Hrs and Duties (M-F)
9/2/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/3/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/4/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/5/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/6/2024	Performed daily checks, checked lubrication of all pumps. 3) USA Request	3.50	
9/9/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/10/2024	Performed daily checks, checked lubrication of all pumps. Delivered 26 gallons of chlorine to Library Site, 32 gallons to Alley Site and 12 gallons to Holland Site. USA Request	2.25	
9/11/2024	Performed daily checks, checked lubrication of all pumps. USA Request	2.75	
9/12/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/13/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/16/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/17/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/18/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/19/2024	Performed daily checks, checked lubrication of all pumps. 2) USA Request	2.75	
9/20/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/23/2024	Performed daily checks, checked lubrication of all pumps. Delivered 24 gallons of chlorine to Library Site. USA Request	2.25	
9/24/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/25/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/26/2024	Performed daily checks, checked lubrication of all pump. Delivered 28 gallons of chlorine to Alley Site and 8 gallons to Holland Site.	1.75	
9/27/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
9/28/2024	Perform After hours shut-off at 2375 Serviss St.	1.00	
9/30/2024	Performed daily checks, checked lubrication of all pumps.	1.75	
Monthly Production			
27,021.80 CCF's			
Total Regular Hours		**42.50**	

Total Extra 1 Man Hours over 48 hrs/month, excluding meter reading			
Total Additnonal Man Hours			
Total After Hours			
Signature:	Michael Butler	.	
Title:	**Chief Operator**		

10b
Work Order Status
Report (10.2024)

10/10/2024

Work Order Statistics
01/01/2021 thru 10/31/2024

Year	Month	Issued	Complete	Open	Avg Comp Days	Avg Open Days
2021	09	6	6		98	0
2021	10	24	21	3	222	1104
2021	11	2	2		69	0
2021	12	12	12		186	0
2022	01	7	7		47	0
2022	02	12	12		242	0
2022	03	6	6		181	0
2022	04	3	3		24	0
2022	05	5	5		21	0
2022	06	6	6		89	0
2022	07	2	2		10	0
2022	08	8	6	2	55	820
2022	09	7	7		69	0
2022	10	5	5		5	0
2022	11	1	1		13	0
2022	12	1		1	0	672
2023	01	8	5	3	83	643
2023	02	2	1	1	178	612
2023	03	7	3	4	44	587
2023	04	9	4	5	46	557
2023	05	3	1	2	384	541
2023	07	7	3	4	10	461
2023	08	6	6		55	0
2023	09	8	7	1	75	407
2023	10	2	2		4	0
2023	11	1		1	0	337
2023	12	3	3		142	0
2024	01	4	4		99	0
2024	02	2	2		95	0
2024	03	3	1	2	75	226
2024	04	2	1	1	61	191
2024	05	7	5	2	33	158
2024	06	1	1		2	0
2024	07	8	6	2	-110785	109
2024	08	2	1	1	6	64
2024	09	5	1	4	0	34
2024	10	1		1	0	28
		198	**158**	**40**		

37 Items

Order No	Tap	Issued	Completed		Name	Assigned to	Location
112	920	10/13/21		R	Ilukowicz & Leach	Water Operator	2542 Durham-Dayton

039-450014
Install meter.
10/26/2021 - blank; no meter. Need to install meter.
9/26/2021 - water operator reports no access.

114	936	10/27/21		R	Devin Fosdick	Water Operator	2390 Brown St

040-231-020
Install meter.
10/27/2021 - Install meter.

119	201	10/28/21		R	Henry Mattei	Water Operator	2425 Durham St

040-221-001
Replace meter.
10/27/2022 - water operator contacted owner; cannot locate meter box. Will have Advanced Leak Detection search for meter box.
10/28/2021 - meter not working; estimated readings since 5/26/2020.

192	806	8/2/22		R	Durham CUMC Parson	Water Operator / Admir	2404 Durham-Dayton

040-212-004
11/1/2023 jlt: Note - USBR Project
9/13/2022 jlt: Advanced Pipeline verified water service line "coming from future meter supply hookup on Midway." - $200
9/8/2022 wo: Water Operator reports "This location is hardly ever occupied. There is extensive landscaping . It wouldn't be too
difficult to install a meter. Will have Advanced Leak detection look at this location to locate service connection on 9/9/2022. This is a flat rate account being charged a non-standard fixed amount. (should be $63,78; is charged $39.93).

Please look into two issues:
1. service line and how difficult (expensive) would it be to install meter
2. what kind of water usage does this account have? Is there a lot of landscaping or amenities that use water?

We are considering offering the customer two options -
A. encourage meter install now - $650 meter fee, and update to metered rate $35.07/mo + usage; meter is required in any case by 2025.

B. charge standard fixed rate amount of $63.78/month.

194	955	8/3/22		R	Caitlin and Michael Crete	Water Operator	2514 Durham-Dayton

039-450-005
Install meter.
8/3/2022 - Please install new meter for a previously unmetered account (new connection or conversion from flat rate). Also update meter book - need to add new page. Please advise if I need to make billing address changes.
New meter fee has been paid.

218	931	12/29/22		R	David Day	Water Operator	2385 Florida Ln

APN 040-240-075
12/9/2022: Replace meter.

Order No	Tap	Issued	Completed		Name	Assigned to	Location
221	961	1/24/23		R	Albert Amator	Water Operator	2397 Campbell St

040-223-006
Install meter.
Please install new meter for a previously unmetered accounts (conversion and consolidation from flat rate account). See 12/2022 BOD discussion.
Also update meter book - need to add new page.
New meter fee has been charged to account.

223	962	1/24/23		R	Geraldine Gillham	Water Operator	9348 Midway

040-200-095
Install meter.
1/4/2023 jlt: Install new meter for a previously unmetered account (conversion from flat rate).
Also update meter book - need to add new page.
New meter fee has been charged to Acct 72.
New Acct 962

224	231	1/31/23		R	Cheryl Williams	Water Operator	9263 Midway

040-250-002
Replace meter.
1/31/2023 - water operator reports meter is broken; needs replacing.

228	964	2/27/23		R	Carol Wagner	Water Operator	2393 Durham St

040-221-008
Install meter.
2/27/2023: Please install new meter for a previously unmetered account (conversion from flat rate). Owner identified by APN lookup.
Also update meter book - need to add new page.
New meter fee has been paid (old acct 123).
*2/27/2023 - old acct 123; new acct 964

230	19	3/21/23		R	Rosemary Bennett	Water Operator	2379 Florida Ln

040-240-006
Install meter.
03/21/2023 jlt: Please install new meter for a previously unmetered account (new connection or conversion from flat rate).
Please also install a customer shut-off valve on their side of the meter.
Also update meter book - need to add new page.
New meter fee has been billed (03/2023).

231	18	3/23/23		R	Rosemary Bennett	Water Operator	2404 Serviss St

040-240-006
Install meter.
03/21/2023 jlt: Please install new meter for a previously unmetered account (new connection or conversion from flat rate).
Please also install a customer shut-off valve on their side of the meter.
Also update meter book - need to add new page.
New meter fee has been billed (03/2023).

232	3	3/23/23		R	Rosemary Bennett	Water Operator	2396 Campbell St

Order No	Tap	Issued	Completed	Name	Assigned to	Location
	040-221-016 Install meter. 03/23/2023 jlt: Please install new meter for a previously unmetered account (new connection or conversion from flat rate). Please also install a customer shut-off valve on their side of the meter. Also update meter book - need to add new page. New meter fee has been billed (03/2023).					
235	965	3/27/23	R	Gerardo Perez	Water Operator	2382 Brown St
	040-231-018 Install meter. 3/27/2023 jlt: Please install new meter for a previously unmetered account (conversion from flat rate). Also update meter book - need to add new page. New meter fee charged to Acct 72.					
239	141	4/26/23	R	Billy Woodward	Water Operator	2403 Brown St
	040-233-015 5/3/2023 jlt: per water operator - accessibility issue that he will look into. Repeated estimated readings - does this location have a meter? If not, please arrange for installation.					
241	173	4/26/23	R	John Staples	Water Operator	2381 Durham St
	040-221-011 Replace meter. 4/26/2023 - replace meter					
242	960	4/26/23	R	Justin and Sarah Price	Water Operator	2508 Durham-Dayton
	039-450-003 4/26/2023 jlt: Repeated estimated readings - does this location have a meter? If not, please arrange for installation.					
243	285	4/26/23	R	Bonnie Caskey	Water Operator	2554 Durham-Dayton
	039-450-018 Replace meter. 4/26/2023 jlt: water operator reports meter is broken.					
244	968	5/2/23	R	Kanon Taylor	Water Operator	2368 Brown St
	040-231-025 Install meter. 5/2/2023 jlt: Iinstall new meter for a previously unmetered account (new connection or conversion from flat rate). Also update meter book - need to add new page. Please advise if I need to make billing address changes. New meter fee has been paid.					
245	806	4/7/23	R	Durham CUMC Parson	Water Operator	2404 Durham-Dayton

Order No	Tap	Issued	Completed	Name	Assigned to	Location
				040-212-004 11/1/2023 jlt: Note - USBR Project 5/11/2023: Per water operator: There are three possible service connectins, two of which have been identified. There may be a cross connection between residence; the parking lot could have its own service line. Brown Engineering to continue to work to locate last service line. 4/24/2023: Brown Engineering unable to locate service line. 4/14/2023: unable to detect line with metal detector. 4/11/2023: Installed repair band to patch customer's pipe; still attempting to locate District service line. 4/7/2023: Water operator invesitgating leak; difficutly locating shut-off and service line.		
247	88	5/15/23	R	Brian Moffitt	Water Operator	2395 Serviss St
				040-240-033 Install meter. 5/15/2023 jlt: Please install new meter for a previously unmetered account (conversion from flat rate). Also update meter book - need to add new page. New meter fee has been posted to account. See: Ltr. to Owner - Acct 88 (05.09.2023) meter conversion - executed		
251	809	7/27/23	R	Nancy Brown	Water Operator	9156 Holland Ave
				040-280-121 Replace meter. 7/27/2023: Water Operator reports meter is broken.		
252	4	7/27/23	R	Albert Amator	Water Operator	2399 Campbell St
				040-223-005 Replace meter. 7/27/2023: Water Operator reports meter is broken. Sight glass is scratched.		
253	693	7/28/23	R	Richard Gilliam	Water Operator	9504 Dillon Ct
				039-540-001 Replace meter. 7/27/2023: Water operator reports meter is broken.		
254	279	7/28/23	R	James Patterson	Water Operator	2534 Durham-Dayton
				039-450-011 Replace meter. 7/28/2023: Water Operator reports scratched sight glass.		
267	975	9/20/23	R	Thomas and Valerie Boe	Water Operator	9304 Holland Ave
				040-223-021 Install meter. 9/20/2023 - Please install new meter for a previously unmetered account (new connection or conversion from flat rate). Also update meter book - need to add new page. New meter fee has been paid under Acct 97.		
274	119	11/29/23	R	Jeannie Slinkard	Water Operator	2410 Serviss St

Order No	Tap	Issued	Completed		Name	Assigned to	Location
	040-240-026						
	Meter was installed under USBR Grant?? Install meter. 11/29/2023 jlt: Please install new meter for a previously unmetered account (new connection or conversion from flat rate). Also update meter book - need to add new page. New meter fee has been paid.						
284	980	3/11/24		R	Cindy and Thomas Steffen	Water Operator	9339 Goodspeed St.
	040-223-009 Install meter. 03/11/2024 jlt: Iinstall new meter for a previously unmetered account (new connection or conversion from flat rate). Also update meter book - need to add new page. Please advise if I need to make billing address changes. New meter fee has been paid.						
286	684	3/27/24		R	Kyle Brock	Water Operator	2469 Tracy Ranch Rd
	039-460-066 3/27/2024 jlt: Sight scratched and unreadable. Replace meter.						
288	688	4/23/24		R	Midway Mini-Storage	Water Operator	9318 Midway
	040-200-088 replace 1" meter with 3/4" meterr.						
293	217	5/24/24		R	Randy Samuelson	Water Operator	9353 Goodspeed St
	040-221-014 5/24/2024 jlt: Please install new meter for a previously unmetered account (new connection or conversion from flat rate). Also update meter book - need to add new page. New meter fee has been billed.						
295	513	5/28/24		R	Jennifer Cooper	Water Operator	9156 Goodspeed St
	040-280-086 5/28/2024 jlt: Sight scratched and unreadable. Replace meter.						
297	909	7/2/24		R	Kirsten Schwab	Water Operator	9641 Teal Ln
	039-520-033 6/22/2024 jlt: Water operator reports meter is broken. Replace meter.						
304	315	7/25/24		R	Kenneth and Jennifer Bryant	Water Operator	2514 Burdick Rd
	039-540-010 7/25/2024 jlt: Water Operator reports - Sight scratched and unreadable.						
307	6	8/28/24		R	Aaron Button	Water Operator	2481 Durham-Dayton

Order No	Tap	Issued	Completed		Name	Assigned to	Location
	039-460-012 8/28/2024 jlt: Check meter; no usage but lawn is green and irrigated.						
308	215	9/24/24		R	Ehron Hobbs	Water Operator	2355 Serviss St
	040-240-041 Repeated identical readings. Does meter need to be replaced?						
309	129	9/24/24		R	Robert Hindman	Water Operator	2404 Campbell St
	040-221-018 Repeated identical readings. Does meter need to be replaced?						
310	261	9/30/24		R	Dickalyn Porter	Water Operator	9339 Goodspeed St
	040-223-009 9/30/2024jlt: Please install new meter for a previously unmetered account (conversion from flat rate). Also update meter book - need to add new page. New Meter fee received.						
311	177	9/30/24		R	Lexi Mitchell	Water Operator	2331 Florida Ln
	040-240-013 9/30/2024 jlt: Please obtain final meter reading in response to demand request.						
312	124	10/3/24		R	Ethan Withrow	Water Operator	2387 Durham St
	040-221-009 10/4/2024 jlt: Water operator responded to work order and re-read meter and took a photo. Meter is working properly. Meter Reading: 540 10/3/2024 jlt: Please look into a customer inquiry regarding the following: Owner concerned about high meter reading; believes the meter is malfunctioning.						

LINK "Butte County LHMP Update Complete_Sept 2024"
The link will not change until
Butte County has FEMA approval.
https://www.buttecounty.net/DocumentCenter/View/14094/Butte-County-LHMP-Update_Sept-2024-PDF?bidId=

Annex J Durham Irrigation District

J.1 Introduction

This Annex details the hazard mitigation planning elements specific to the Durham Irrigation District (DID or District), a previously participating jurisdiction to the 2019 Butte County Local Hazard Mitigation Plan (LHMP) Update. This Annex is not intended to be a standalone document but appends to and supplements the information contained in the Base Plan document. As such, all sections of the Base Plan, including the planning process and other procedural requirements apply to and were met by the District. This Annex provides additional information specific to DID, with a focus on providing additional details on the planning process, risk assessment, and mitigation strategy for this District.

J.2 Planning Process

As described above, DID followed the planning process detailed in Chapter 3 of the Base Plan. In addition to providing representation on the Butte County Hazard Mitigation Planning Committee (HMPC), the District formulated their own internal planning team to support the broader planning process requirements. Internal planning participants, their positions, and how they participated in the planning process are shown in Table J-1. Additional details on Plan participation and District representatives are included in Appendix A.

Table J-1 DID – Planning Team

Name	Position/Title	How Participated
Kevin Phillips	Director	Review and updated plan. Attended meetings.
Nicole Johansson	Consultant	Provided data. Attended meetings.
Jeannie Trizzino	Administrative Asst.	Attended meetings.

Coordination with other community planning efforts is paramount to the successful implementation of this LHMP Update. This section provides information on how the District integrated the previously approved 2019 LHMP into existing planning mechanisms and programs. Specifically, the District incorporated into or implemented the 2019 LHMP through other plans and programs shown in Table J-2.

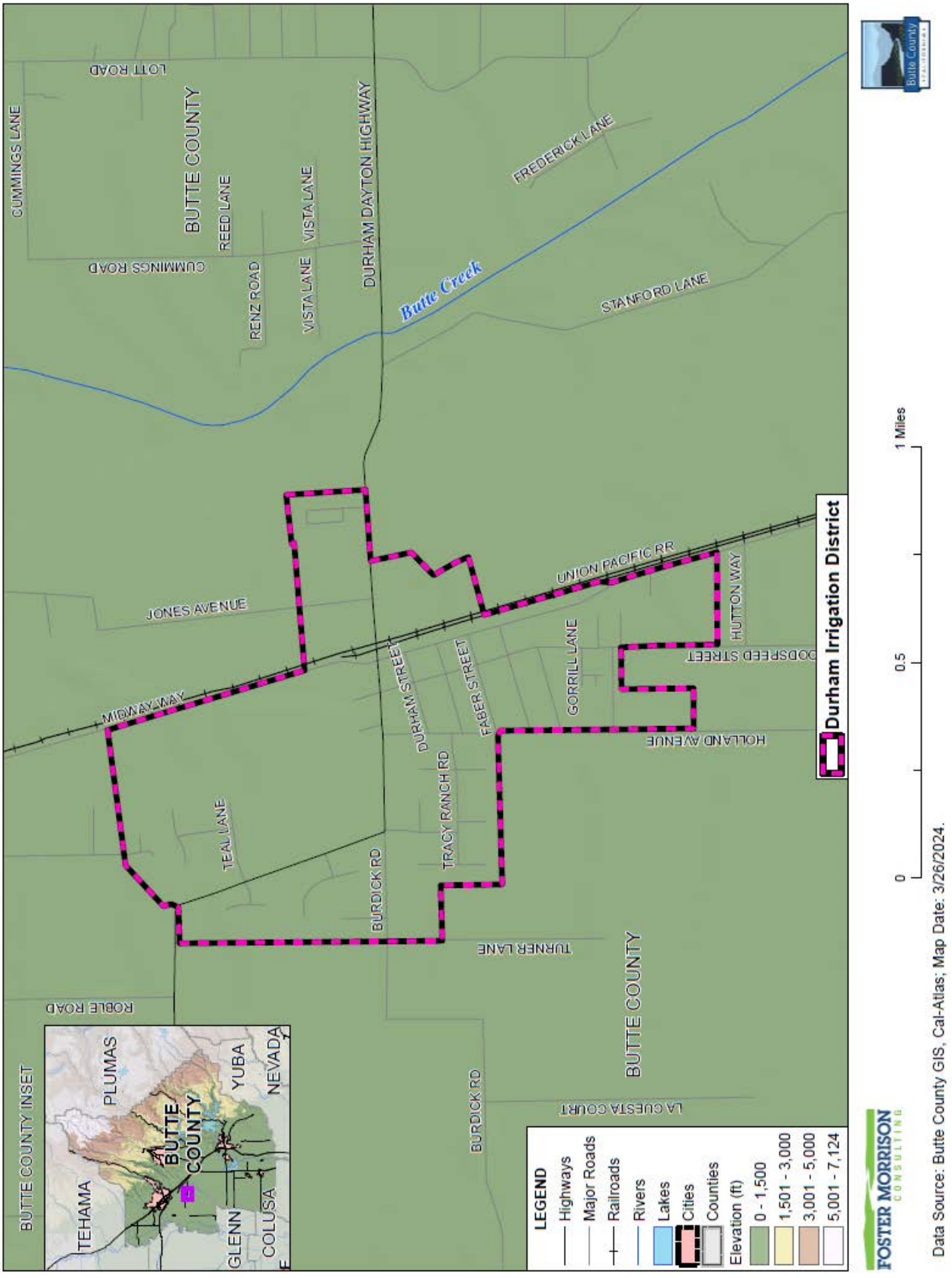
Table J-2 2019 LHMP Incorporation

Planning Mechanism 2019 LHMP Was Incorporated/Implemented In.	Details: How was it incorporated?
Capital Improvements Plan	Incorporated in the capital projects list.

J.3 Community Profile

The community profile for the DID is detailed in the following sections. Figure J-1 displays a District map and the location of DID within Butte County.

Figure J-1 DID



J.3.1. Overview and Background

The Durham Irrigation District provides domestic water services to parcels in the unincorporated community of Durham, which is south of the City of Chico. The District was established in 1948 to serve the unincorporated community of Durham and surrounding area with high quality domestic water service. For over 70 years the District has adapted to ever changing drinking water quality standards in order to provide superior water and excellent service to our valued customers. The District's service area encompasses 506 acres (0.8 square miles) and approximately 555 parcels. The District's current Sphere of Influence (SOI) is coterminous with the District's jurisdictional boundaries. The District has an estimated population of around 1,500 with 475 service connections.

DID's water system consists of three groundwater well stations. Well 3 the oldest well station was constructed in 1956, and more recently Well 4 in 1990 and Well 5 in 1995. The rated capacity of Well 3 and Well 4 is reported to be approximately 600 gpm, and Well 5 is approximately 1,100 gpm. The well stations maintain pressure within the transmission pipeline network. The water system does not have any storage tanks; a hydropneumatics tank is located near Well 3 but it is not used. Due to pressure constraints, mainly Well 4 operates alone in winter with support from Well 5 when demand increases. Well 3 is not used in the winter because it creates high pressures. During the summer, Well 3 is the primary well station with support from Well 4 and Well 5.

The District is an independent special district (not part of any county or city) that provides domestic water service to parcels within its service area.

J.4 Risk Assessment

As defined by FEMA, risk is a combination of hazard, vulnerability, and exposure. "It is the impact that a hazard would have on people, services, facilities, and structures in a community and refers to the likelihood of a hazard event resulting in an adverse condition that causes injury or damage."

The DID risk assessment identifies and profiles relevant hazards and assesses the exposure of lives, property, infrastructure, and the environment to these hazards. The process allows for a better understanding of the District's potential risk to hazards and provides a framework for developing and prioritizing mitigation actions to reduce risk from future hazard events.

Building on the Community Profile above, a risk assessment was performed for the District. This includes the following sections:

- J.4.1 Assets Inventory and Growth and Development Trends
- J.4.2 Hazard Identification
- J.4.3 Hazard Profiles and Vulnerability to Specific Hazards

J.4.1. Assets Inventory and Growth and Development Trends

This section provides an inventory of the DID's total assets potentially at risk to hazards and an overview of growth and development trends. This section is broken into two parts:

- **Asset Inventory** – The assets inventory identifies DID's total assets, including the people and populations; structures; critical facilities and infrastructure; community lifelines; natural, historic, and cultural resources; and economic assets and community activities of value. This data is not hazard specific, but is representative of total assets within the District, potentially at risk to identified hazards as discussed in Section J.4.3 Hazard Profiles and Vulnerability to Specific Hazards.
- **Growth and Development Trends** – A discussion of growth and development trends in the District, both current and future, is presented.

Assets Inventory

The District's asset inventory is detailed in the following sections:

- People and Populations
- Structures
- Critical Facilities and Infrastructure
- Community Lifelines
- Natural, Historic, and Cultural Resources
- Economic Assets and Community Activities of Value

A discussion of each of these assets follows and serves as the template for the asset discussion for each hazard in Section J.4.3.

People and Populations

The most important asset within any community are the people and populations that reside in the community. This section includes an inventory of past and current populations of the District and also discusses socially vulnerable populations and underserved communities as a subsection of people and populations located within the District and potentially at risk to hazards. Information from the District, US Census Bureau, California Department of Finance, and other sources as detailed below form the basis of this discussion.

Historic Population Trends and Current Population

The most important asset within any community are the people and populations that reside in the District. The District provides services to 1,442 people with 459 service connections. The District noted that there may be special populations that reside in the District, but that it has no mechanisms to track that information. It is assumed that these populations mirror that of Butte County, which is discussed in Section 4.3.1 of the Base Plan. The District depends on Butte County to track this data for the larger County (including the District).

Structures and Critical Facilities

This section considers the DID's assets at risk, with a focus on key District assets such as critical facilities, infrastructure, and other District assets and their values. With respect to District assets, the majority of these assets are considered critical facilities as defined for this Plan. Critical facilities are defined for this Plan as:

Any facility, including without limitation, a structure, infrastructure, property, equipment or service, that if adversely affected during a hazard event may result in severe consequences to public health and safety or interrupt essential services and operations for the community at any time before, during and after the hazard event.

Table J-3 lists critical facilities and other District assets identified by the District Planning Team as important to protect in the event of a disaster. DID's physical assets, valued at over $18 million, consist of the buildings and infrastructure to support the District's operations.

Table J-3 DID Critical Facilities, Infrastructure, and Other District Assets

Name of Asset	Facility Type	Replacement Value	Hazard Info
5-miles of Distribution Pipe System	2" up to 8" pipe for water delivery	$6,000,000	Drought, Earthquake, Wildfire, Natural Disaster
3 Well Station Improvements	Pump station upgrades	$4,000,000	Earthquake, Wildfire, Natural Disaster
Water Storage	Water and Fire Flow Storage	$8,000,000	Earthquake, Wildfire, Natural Disaster

Source: DID

Due to budgetary constraints, the District operates with little overhead capital. The office has a computer, fixtures, and supplies related to a small office operation. Until recently, the District contracted with a Certified Drinking Water System Distribution Operator who provided his vehicle and tools used on the job. For this reason, the District does not have or maintain all the necessary equipment or personnel to provide all services required for continual operations, especially those requiring heavy equipment, and therefore, many projects must be contracted out to licensed providers. Some examples of contracted work include existing infrastructure repairs, new meters or valves, and well pump maintenance. The District Operator also oversaw and inspected any work outside of his contractual scope of work performed by contractors for improvements to District infrastructure. The District contracted with NorthStar Engineering for all District engineering needs. The District has a full-time office manager who handles customer service, billing, and Board administration. The District recently changed the District Council to a more comprehensive firm.

The District has three groundwater wells that supply the water required by District users. Two wells have back up power to maintain full operations during outages. One well lacks back up power, but this does not affect system capability as the other wells have the capacity to meet demands.

Portions of the water delivery conveyance system are aging and should be replaced in the near future. However, the District has made and continues to make many improvements to the well pumps and in the timing of deliveries, thus avoiding pressure surges and line breaks. These improvements have extended the life of the existing piping conveyance system, and typical pipeline breaks are now only caused by tree damage. Limited portions of the District's domestic water infrastructure lack shut off valves and service in those areas must be interrupted to make repairs or new service connections.

Community Lifelines

Assessing the vulnerability of the DID to natural hazards and disasters also involves reviewing and inventorying the community lifelines in place that could be affected. It is important to include these items in hazard discussions as the continuous operation of critical government and business functions is essential to human health and safety, property protection, and economic security. The importance of community lifelines is discussed below:

- Lifelines are the most fundamental services in the community that, when stabilized, enable all other aspects of society to function.
- FEMA has developed a construct for objectives-based response that prioritizes the rapid stabilization of Community Lifelines after a disaster.
- The integrated network of assets, services, and capabilities that provide lifeline services are used day-to-day to support the recurring needs of the community and enable all other aspects of society to function.
- When disrupted, decisive intervention (e.g., rapid re-establishment or employment of contingency response solutions) is required to stabilize the incident.

Community lifelines, as defined by FEMA, include the following:

- **Safety and Security** – Law Enforcement/Security, Fire Service, Search and Rescue, Government Service, Community Safety
- **Food, Hydration, Shelter** – Food, Water, Shelter, Agriculture
- **Health and Medical –** Medical Care, Public Health, Patient Movement, Medical Supply Chain, Fatality Management
- **Energy –** Power Grid, Fuel
- **Communications** – Infrastructure, Responder Communications, Alerts Warnings and Messages, Finance, 911 and Dispatch
- **Transportation** – Highway/Roadway/Motor Vehicle, Mass Transit, Railway, Aviation, Maritime
- **Hazardous Material –** Facilities, HAZMAT, Pollutants, Contaminants
- **Water Systems** – Potable Water Infrastructure, Wastewater Management

In Butte County, there is an interplay in community lifelines between all jurisdictions in the County. In fact, most of the District's community lifelines overlap the County's. It should also be noted that these lifelines collectively include many of the critical facilities and infrastructure assets inventoried for this LHMP. Due to this fact, specific information on these community lifelines in the District and how they may be affected by a hazard event or disaster are discussed in each hazard section; however, many of these sections refer back to the detailed lists that are captured in the Section 4.2.1 of the Base Plan.

Natural, Historic, and Cultural Resources

Assessing the vulnerability of the District to natural hazards and disasters also involves inventorying the natural, historic, and cultural assets of the area. This step is important for the following reasons:

- Environmental and natural resources add to a community's identity and quality of life. They also help the local economy through agriculture, tourism and recreation. They support ecosystem services, such as clean air and water.
- Conserving the environment may help people mitigate risk. It can also protect sensitive habitats, develop parks and trails, and build the economy.
- The community may decide that these types of resources warrant a greater degree of protection due to their unique and irreplaceable nature and contribution to the overall economy.
- If these resources are impacted by a disaster, knowing so ahead of time allows for more prudent care in the immediate aftermath, when the potential for additional impacts are higher.
- The rules for reconstruction, restoration, rehabilitation, and/or replacement are often different for these types of designated resources.
- Natural resources can have beneficial functions that reduce the impacts of natural hazards, such as wetlands and riparian habitat, which help absorb and attenuate floodwaters.

Natural Resources

DID has a variety of natural resources of value to the District. These natural resources parallels that of Butte County as a whole. Information can be found in Section 4.2.1 of the Base Plan.

Historic and Cultural Resources

DID has a variety of historic and cultural resources of value to the District. These historic and cultural resources parallels that of Butte County as a whole. Information can be found in Section 4.2.1 of the Base Plan.

Economic Assets and Community Activities of Value

Assessing the vulnerability of the DID to natural hazards and disasters also involves inventorying the economic assets and community activities of value in the District.

Economic Assets

After a disaster, economic resiliency is one of the major drivers of a speedy recovery. Each community has specific economic drivers. Economic assets for the County were discussed in Section 4.2.1 of the Base Plan and are assumed to be the same or similar for the District.

Community Activities of Value

Inventorying economic assets in the District and their vulnerability to natural hazards and disasters also involves inventorying activities that have value to the community. This includes activities that are important to a community, like long-standing traditions such as a festival or fair. Community Activities of Value for the County were discussed in Section 4.2.1 of the Base Plan and are assumed to be the same or similar for the District.

Growth and Development Trends

As part of the planning process, the District looked at changes in growth and development, both current and future, and examined these changes in the context of hazard-prone areas, and how the changes in growth and development affect loss estimates and vulnerability over time.

Population Trends and Projections

The District's jurisdictional boundaries consist of the unincorporated community of Durham and its surrounding area. There are no clear significant growth areas; the Butte County General Plan zoning ordinance greatly limits the growth in the area. The Durham-Dayton-Nelson Area Plan which is incorporated into the Butte County's General Plan 2030 establishes area-wide land use policies that provide less potential for future development than had been allowed under the former Durham-Dayton-Nelson Area Plan (D2N), which governed the area prior to the adoption of the new Durham Area Plan. Any future growth in the District will be dictated by requests for annexation submitted to, and approved by, LAFCo.

Smaller parcels comprising of approximately 456 acres within the District are used for urban uses within the community core of Durham. Land uses within the District include single-family residential uses, commercial uses, industrial uses, and public uses. There is very little potential for new development within the boundaries of the District. A large portion of the core community of Durham is zoned for medium and medium-high density residential uses. However, the lack of a public sanitary sewer system in the Durham area restricts the creation of smaller parcels or the construction of multiple dwellings on existing developed parcels. The area of the District outside of the community core of Durham is mostly zoned for agricultural uses on parcels with a minimum parcel size of 20 to 40 acres.

Development since 2019 Plan

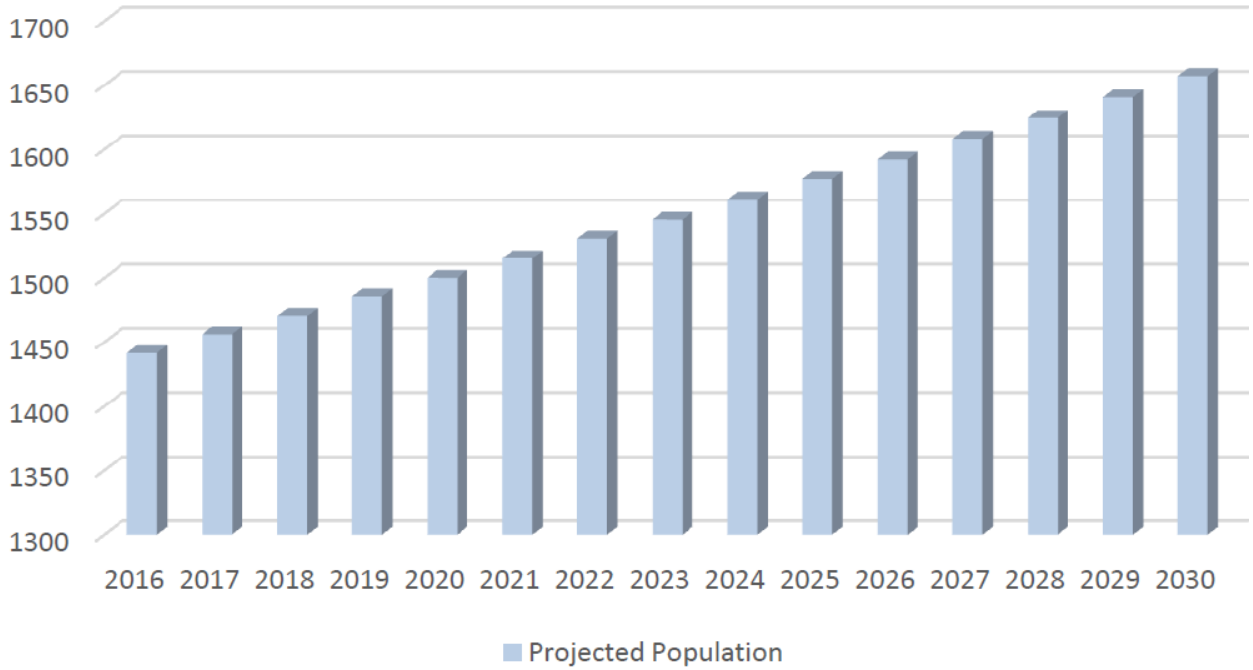
The District has a sphere of influence that was developed in 2018 and it was expanded at that time, but the District is not planning to expand beyond it. There are some new developments that are within the sphere of influence, we are only growing within our boundaries. Not all the homes that were annexed have connected to the system.

Future Development Areas

It is important to review future development plans for the District. Future development should be sited in areas that are away from known hazard risks. If this is not possible, mitigation should be done to ensure that future development is protected against future hazards. The District has no control over future development in areas serviced by the District.

The District has no control over future development in areas serviced by the District. The population within the DID service area is expected to grow at a rate of approximately 1 percent a year, with most of that growth occurring within the unincorporated community of Durham (seen in Figure J-2). Population growth within the Durham area could be significantly greater than 1 percent annually if a sanitary sewer system is constructed to serve the area. However, there are no known plans for a sanitary sewer system to be constructed in the Durham area.

Figure J-2 Durham Irrigation District – Projected Population Growth 2016 to 2030



Source: May 16, 2019 Draft Municipal Service Review and Sphere of Influence Plan

As population increases, and growth occurs within the District, service demands will increase. Expansion of services is facilitated by increases in revenues due to rate increases and the collection of connection and service fees from new development.

There are currently no future development plans within the District.

J.4.2. Hazard Identification

DID identified the hazards that affect the District and summarized their location, extent, likelihood of future occurrence, potential magnitude, and significance specific to the District (see Table J-4).

Table J-4 DID—Hazard Identification Assessment

Hazard	Geographic Extent	Likelihood of Future Occurrences	Magnitude/ Severity	Significance	Climate Change Influence
Climate Change	Extensive	Highly Likely	Limited	Low	–
Dam Failure	Extensive	Occasional	Catastrophic	Low	Medium
Drought & Water shortage	Extensive	Likely	Limited	High	High
Earthquake	Extensive	Occasional	Catastrophic	Low	Low
Floods: 1%/0.5%/0.2% annual chance	Significant	Likely	Critical	Low	Medium
Floods: Localized Stormwater	Significant	Highly Likely	Limited	Low	Medium
Invasive Species: Aquatic	Limited	Likely	Limited	Low	Low
Invasive Species/Agricultural Hazards	Extensive	Highly Likely	Limited	Low	Low
Landslide, Mudslide, and Debris Flow	Significant	Likely	Limited	Low	Medium
Levee Failure	Significant	Occasional	Critical	Low	Medium
Pandemic	Extensive	Likely	Critical	Low	Medium
Severe Weather: Extreme Heat	Extensive	Highly Likely	Limited	Low	High
Severe Weather: Extreme Cold, Freeze and Winter Storm	Extensive	Highly Likely	Limited	Low	Medium
Severe Weather: Heavy Rain and Storms (Hail, Lightning)	Extensive	Highly Likely	Limited	Low	Medium
Severe Weather: Wind and Tornado	Extensive	Highly Likely	Limited	Low	Low
Wildfire	Extensive	Highly Likely	Catastrophic	Low	High

Geographic Extent
Limited: Less than 10% of planning area
Significant: 10-50% of planning area
Extensive: 50-100% of planning area

Likelihood of Future Occurrences
Highly Likely: Near 100% chance of occurrence in next year, or happens every year.
Likely: Between 10 and 100% chance of occurrence in next year, or has a recurrence interval of 10 years or less.
Occasional: Between 1 and 10% chance of occurrence in the next year, or has a recurrence interval of 11 to 100 years.
Unlikely: Less than 1% chance of occurrence in next 100 years, or has a recurrence interval of greater than every 100 years.

Magnitude/Severity
Catastrophic: More than 50 percent of property severely damaged; shutdown of facilities for more than 30 days; and/or multiple deaths
Critical: 25-50 percent of property severely damaged; shutdown of facilities for at least two weeks; and/or injuries and/or illnesses result in permanent disability
Limited: 10-25 percent of property severely damaged; shutdown of facilities for more than a week; and/or injuries/illnesses treatable do not result in permanent disability
Negligible: Less than 10 percent of property severely damaged, shutdown of facilities and services for less than 24 hours; and/or injuries/illnesses treatable with first aid

Significance
Low: Minimal potential impact
Medium: Moderate potential impact
High: Widespread potential impact

Climate Change Influence
Low: Minimal potential impact
Medium: Moderate potential impact
High: Widespread potential impact

J.4.3. Hazard Profiles and Vulnerability to Specific Hazards

This section includes the hazard profiles and vulnerability assessment for hazards ranked of medium or high significance specific to the District (as identified in the Significance column of Table J-4). Chapter 4 of the Base Plan provides more detailed information about these hazards and their impacts on the Butte County Planning Area. Methodologies for evaluating vulnerabilities and calculating loss estimates are the same as those described in Section 4.2 of the Base Plan.

Each hazard is profiled in the following format:

- **Hazard Profile and Problem Description** – A hazard profile is included for each hazard. This includes information on:
  - ✓ **Hazard Overview** - A general discussion of the hazard and related issues.
  - ✓ **Location** and **Extent** - Location is the geographic area within the District that is affected by the hazard. Extent is the expected range of intensity for each hazard. These are discussed in specific detail for mapped hazards, and in more general detail for those hazards that do not have discrete mapped hazard areas.
  - ✓ **Past Occurrences** - Past occurrences are discussed for each hazard. A discussion of disaster declarations is included in each hazard section. NCDC events are also discussed. Other past occurrences data specific to the District follow the disaster declarations for each hazard.
  - ✓ **Climate Change**—This section contains the effects of climate change (as applicable). The possible influence of climate change on the hazard is discussed.

After the hazard profile, a vulnerability assessment is presented. As part of the vulnerability assessment, an estimate of the vulnerability of the District to each identified hazard, in addition to the estimate of risk of future occurrence, is provided in each of the hazard-specific sections that follow. Vulnerability is measured in general, qualitative terms and is a summary of the potential impact based on past occurrences, spatial extent, and damage and casualty potential. It is categorized into the following classifications:

- **Extremely Low**—The occurrence and potential cost of damage to life and property is very minimal to nonexistent.
- **Low**—Minimal potential impact. The occurrence and potential cost of damage to life and property is minimal.
- **Medium**—Moderate potential impact. This ranking carries a moderate threat level to the general population and/or built environment. Here the potential damage is more isolated and less costly than a more widespread disaster.
- **High**—Widespread potential impact. This ranking carries a high threat to the general population and/or built environment. The potential for damage is widespread. Hazards in this category may have occurred in the past.
- **Extremely High**—Very widespread with catastrophic impact.

After this classification, a general discussion of hazard vulnerabilities occurs. This is done in the following format:

- **Local Concerns** – The includes District provided information on how the District is uniquely affected by or vulnerable to each hazard.

- **Assets at Risk** – A discussion of the assets at risk follows, presented in the same format as in Section J.4.1 above. This includes sections on: People and Populations; Structures; Critical Facilities and Infrastructure, Community Lifelines; Natural, Historic, and Cultural Resources; and Economic Assets and Community Activities of Value. These are discussed in specific terms for mapped hazards, and in more general terms for those hazards that are unmapped.
- **Impacts** – A discussion on hazard impacts follows. Impacts describe how each hazard can affect the District and their assets. The type and severity of impacts reflect both the potential magnitude of the hazard and the vulnerability of the asset. Impacts are also affected by the community's ability to mitigate, prepare for, respond to, and recover from an event.
- **Future Development** – A discussion of how future development will be affected by the hazard is also included. This is addressed specifically for mapped hazards, and in more general terms for those hazards that are unmapped.

Power Interruption/Power Failure: A Common Vulnerability of all Hazards

An impact of almost all hazards evaluated as part of this LHMP Update relates to power shortage and/or power failures. The US power grid crisscrosses the country, bringing electricity to homes, offices, factories, warehouses, farms, traffic lights and even campgrounds. According to statistics gathered by the U.S. Department of Energy, major blackouts are on the upswing. Incredibly, over the past two decades, blackouts impacting at least 50,000 customers have increased 124 percent. The electric power industry does not have a universal agreement for classifying disruptions. Nevertheless, it is important to recognize that different types of outages are possible so that plans may be made to handle them effectively. In addition to blackouts, brownouts can occur. A brownout is an intentional or unintentional drop in voltage in an electrical power supply system. Intentional brownouts are used for load reduction in an emergency. Electric power disruptions can be generally grouped into two categories: intentional and unintentional. More information on types of power disruptions can be found in Section 4.3 of the Base Plan.

Public Safety Power Shutoff (PSPS)

A new intentional disruption type of power shortage/failure event has recently occurred in California. In recent years, several wildfires have started as a result of downed power lines or electrical equipment. This was the case for the Camp Fire in 2018. As a result, California's three largest energy companies (including PG&E), at the direction of the California Public Utilities Commission (CPUC), are coordinating to prepare all Californians for the threat of wildfires and power outages during times of extreme (fire) weather. To help protect customers and communities during extreme fire weather events, electric power may be shut off for public safety in an effort to prevent wildfire. This is called a PSPS. More information on PSPS criteria can be found in Section 4.3 of the Base Plan.

Enhanced Powerline Safety Settings (EPSS)

In addition to PSPSs, to help prevent wildfires, electric utilities have begun to evolve safety efforts. This includes installing safety settings on powerlines in and around high fire-risk areas. These are known as Enhanced Powerline Safety Settings (EPSS), and they help prevent falling tree branches, animals and other hazards from starting a wildfire. By stopping ignitions, it helps prevent wildfires from starting and spreading. According to PG&E, if ignitions occur, the size of fires are much smaller due to EPSS. In 2022,

there was a 99% decrease in acres impacted by ignitions (as measured by fire size from electric distribution equipment (compared to the 2018-2020 average). This decrease occurred despite dry conditions.

Local Concerns

The District noted no past events. There is some concern in the District if the PSPS events lasted for long periods of time.

Drought & Water Shortage

Likelihood of Future Occurrence–Likely
Vulnerability–High

Hazard Profile and Problem Description

Drought and water shortage is a complex issue involving many factors—it occurs when a normal amount of precipitation and snow is not available to satisfy an area's usual water-consuming activities. Drought is often defined regionally based on its effects. Drought is different than many of the other natural hazards in that it is not a distinct event and usually has a slow onset. Drought can severely impact a region both physically and economically. Drought affects different sectors in different ways and with varying intensities. Adequate water supply is the most significant issue and is critical for agriculture, manufacturing, tourism, recreation, and commercial and domestic use. Drought has also affected tree mortality in the area in the past. As the population in the area continues to grow, so will the demand for water.

Location and Extent

Drought and water shortage are regional phenomenon. The whole of the District and County is at risk. The US Drought Monitor categorizes drought conditions with the following scale:

- None
- D0 – Abnormally dry
- D1 – Moderate Drought
- D2 – Severe Drought
- D3 – Extreme drought
- D4 – Exceptional drought

Drought has a slow speed of onset and a variable duration. Drought can last for a short period of time (which does not usually affect water shortages) or for longer periods (which may challenge water supplies). Should a drought last for a long period of time, water shortage becomes a larger issue. Current drought conditions in the District are shown in Section 4.3.8 of the Base Plan.

Past Occurrences

Disaster Declaration History

There have been one federal and three state disaster declarations from drought. This can be seen in Table J-5.

Table J-5 Butte County – State and Federal Drought Disaster Declarations 1950-2024

Disaster Type	Federal Declarations		State Declarations	
	Count	Years	Count	Years
Drought	1	1977	3	1976, 2014, 2015

Source: Cal OES, FEMA

NCDC Events

There have been 78 NCDC drought events in Butte County. These most likely had some impact on the District.

DID Events

The District noted no past events where damages occurred from droughts.

Climate Change and Drought and Water Shortage

It is likely that climate change will increase the chance of future occurrence as well as future impacts associated with drought and water shortage. More information on future impacts to the District can be found in the Future Conditions/Future Development section of the Vulnerability Assessment below.

Climate scientists studying California find that drought conditions are likely to become more frequent and persistent over the 21st century due to climate change. The experiences of California during recent years underscore the need to examine more closely the state's water storage, distribution, management, conservation, and use policies. The 2021 CAS stresses the need for public policy development addressing long term climate change impacts on water supplies. The CAS notes that climate change is likely to significantly diminish California's future water supply, stating that: California must change its water management and uses because climate change will likely create greater competition for limited water supplies needed by the environment, agriculture, and cities.

A 2018 report from the Public Policy Institute of California noted that thousands of Californians – mostly in rural, small, disadvantaged communities – already face acute water scarcity, contaminated groundwater, or complete water loss. Climate change would make these effects worse.

Cal Adapt scenarios for modeled future drought scenarios were shown in Section 4.3.8 of the Base Plan.

Vulnerability to Drought and Water Shortage

Based on historical information, the occurrence of drought in California, including the District, is cyclical, driven by weather patterns. Drought has occurred in the past and will occur in the future. Periods of actual drought with adverse impacts can vary in duration, and the period between droughts can be extended. Although an area may be under an extended dry period, determining when it becomes a drought is based on impacts to individual water users. The vulnerability of DID to drought may vary and include reduction in water supply, turf losses, impacts to natural resources, and an increase in dry fuels and tree dieback.

Tree Mortality and Drought

One of the specific impacts of drought in the District and Butte County is the increased risk to trees from beetle kill and other insects, pathogens and parasites, and other tree mortality and die back issues. Drought weakens trees and makes them more susceptible to insect infestation and other pathogens. Insects, such as bark beetles and others, frequently attack trees weakened by drought, disease, injuries, or other factors that may stress the tree. These insects and other pathogens can contribute to the decline and eventual death of trees throughout the District.

The tree mortality and dieback problem are a high priority because of the issue of hazardous trees and increased wildfire hazard. In addition to an increase in wildfire fuels, hazardous trees can fall onto structures causing damage and result in a reduction on the tree canopy within the District that provides relief during extreme heat days.

The whole of the District is at some measure of vulnerability to drought and water shortage. An assessment of a community's vulnerability to drought and water shortage begins with an understanding of local exposure to drought. This is included in the Local Concerns section below followed by a discussion of the District's Assets at Risk to this hazard.

Local Concerns

The District has specific concerns and unique vulnerabilities regarding this hazard. These concerns form a portion of the basis for the mitigation strategy and mitigation actions that seek to reduce vulnerabilities to this hazard.

As a small, independent district nestled amidst agricultural surroundings, the District recognizes the vital role water plays in sustaining the community's livelihood. The drawdown of the groundwater table is one factor that has been recognized to occur during repeated dry years. Lowering of groundwater levels results in the need to deepen wells, which subsequently lead to increased pumping costs. The current infrastructure, specifically Well 3 installed in 1956, is now at the age where efficiency and reliability are compromised. The District is deeply concerned about the potential impact on water quality and service reliability due to the aging wells, especially in the event of a drought when water levels drop in the Tuscan Aquifer which all our wells rely on for water.

Assets at Risk

Assets at risk from drought and water shortage include people and populations served; structures and critical facilities; community lifelines; natural, historic, and cultural resources; economic assets; and community activities of value. These are discussed in the following sections.

People and Populations Served

The people and populations of the District are not directly affected by drought; although, their turfed areas, trees, and other water dependent resources can all be affected. In extreme drought conditions, however, residents and other populations within the District may be vulnerability to drought and water shortage issues. Water quality can be impacted causing health problems, especially to vulnerable populations. Drought and water shortage can lead to an increase in wildfires threatening District residents. Water shortages can have an effect on all of the population in the District, but often have a greater effect on the unhoused and other vulnerable populations that may be unable to access clean drinking water during shortages. During periods of drought as the costs of water usage may increase, especially during mandated conservation times, those who are economically disadvantaged may be unable to afford the increased costs of potable water.

Structures and Critical Facilities

Most District structures and critical facilities have a limited vulnerability to drought and water shortage. Should drought conditions be severe enough to cause water shortage reliability issues, some facilities and infrastructure may be affected. Water systems may be impacted during times of reduced water supply and need to employ contingencies to remain functional and fully operational. Other water dependent systems may also be adversely affected. Further, the secondary hazard of drought (increased potential for spread of urban fires and wildfire) can pose a significant risk to critical facilities and infrastructure. Drought can also stress trees, causing die off. These trees may fall on critical infrastructure adjacent to them and impact power lines and other utilities.

The assets from Table J-3 that the District considers at risk to drought are the 5-miles of Distribution Pipe System.

Community Lifelines

While limited, community lifelines can have a vulnerability to drought and water shortage. It is unlikely that community lifelines would be overwhelmed, however. Many of the District's community lifelines are the same as or similar to Butte County's. This was discussed in greater detail in Section 4.3.8 of the Base Plan.

Natural, Historic, and Cultural Resources

Drought and water shortage can have a significant impact on natural resources. Water levels in reservoirs and lakes may be reduced and a loss of wetlands and coastal marsh areas may occur. Severe drought conditions can contribute to an increase in erosion of soils and lead to poor soil quality. Further, all of the trees in the District are at risk to drought impacts and a reduction in water supply. These trees provide a

wealth of social and environmental benefits to District residents and visitors, from shade and beauty to air quality, carbon reduction and stormwater management. Drought can devastate crops and dry out pastures, dry out forests and critical habitat areas, and reduce food and water available for wildlife and livestock. Additionally, drought conditions can also cause soil to compact and not absorb water well, potentially making an area more susceptible to flooding. It is unlikely that drought and water shortage would have a significant impact on historic and cultural resources in the District.

Economic Assets and Community Activities of Value

Economic assets and community activities of value for the District are similar or the same as those for the County as a whole. Those assets and activities were discussed in greater detail in Section 4.3.8 of the Base Plan.

Impacts from Drought and Water Shortage

The vulnerability of the District to drought is District wide, but impacts may vary and include reduction in water supply and an increase in dry fuels. The potential for a reduction in water supply during drought conditions generally leads to both mandated and voluntary conservations measures during extended droughts. During these times, the costs of water can also increase. Also of concern, the increased dry fuels and fuel loads associated with drought conditions can result in an increased fire danger. In areas of extremely dry fuels, the intensity and speed of fires can be significant. Water supply and flows for fire suppression can also be an issue during extended droughts. Drought can also lead to turf losses and cause tree die off within the District.

Other qualitative impacts associated with drought in the District are those related to water intensive activities such as municipal usage, commerce, tourism, and recreation use. With more precipitation likely falling as rain instead of snow in the Sierra's, and warmer temperatures causing decreased snowfall to melt faster and earlier, water supply is likely to become more unreliable. In addition, drought and water shortage is predicted to become more common. This means less water available for use over the long run, and additional challenges for water supply reliability, especially during periods of extended drought.

Impacts to identified assets at risk to this hazard and the overall vulnerability of the District may be affected in the future by climate change. It is likely that climate change will increase the chance of future occurrence as well as future impacts associated with drought and water shortage. Changes in population patterns (migration, density, or the makeup of socially vulnerable populations) and changes in land use and development, and the extent to which they affect this hazard, are discussed in the Future Conditions/Future Development discussion below.

Future Conditions/Future Development

Future conditions may be affected by climate change, changes in population patterns (migration, density, or the makeup of socially vulnerable populations), and changes in land use and development. Findings on this for the District include the following:

- Climate change is likely to exacerbate future drought conditions and associated impacts and vulnerability of the District to drought and water shortage.

- While population projections for the area served by the District show additional expected growth, these anticipated future changes in population are expected to be relatively small, which limits additional impacts to the District. The District noted it has no control over population changes, it merely reacts to them by providing additional (or reduced) services.
- It is unknown how changes in land use and development will affect drought and water shortage in the District's service territory. DID planning efforts are in effect to reduce this risk and should be updated as necessary to continue to address future drought conditions.

Regarding future development, as the population in the area continues to grow, so will the demand for water. Ongoing planning will be needed by the District to account for population growth and increased future water demands. The District continues to make efforts to be proactive on future drought and water supply issues.

J.5 Capability Assessment

Capabilities are the programs and policies currently in use to reduce hazard impacts or that could be used to implement hazard mitigation activities. This capabilities assessment is divided into five sections: regulatory mitigation capabilities, administrative and technical mitigation capabilities, fiscal mitigation capabilities, mitigation education, outreach, and partnerships, and other mitigation efforts.

J.5.1. Regulatory Mitigation Capabilities

Table J-6 lists regulatory mitigation capabilities, including planning and land management tools, typically used by local jurisdictions to implement hazard mitigation activities and indicates those that are in place in the DID.

Table J-6 DID's Regulatory Mitigation Capabilities

Plans	In Place Y/N	Does the plan address hazards? Can the plan be used to carry out mitigation actions? When was it last updated??
Capital Improvements Plan	Y	The plan does not specifically address hazards or mitigation actions, with the exception of need for the installation of a generator at Well Station #3 and the construction of a 1 MG storage tank The plan could be amended to identify hazards and implement mitigation actions. 2024
Climate Change Adaptation Plan		
Community Wildfire Protection Plan	N	
Comprehensive/Master Plan	N	
Continuity of Operations Plan	N	
Economic Development Plan	N	
Land Use Plan		
Local Emergency Operations Plan	N	
Stormwater Management Plan	N	
Transportation Plan	N	

Other (describe)		
Land Use Planning and Ordinances	**Y/N**	**Is the ordinance an effective way to reduce hazard impacts? Is the ordinance adequately administered and enforced?**
Acquisition of land for open space and public recreation use	N	
Building code	N	
Flood insurance rate maps	N	
Floodplain ordinance	N	
Natural hazard-specific ordinance (stormwater, steep slope, wildfire)	N	
Subdivision ordinance	N	
Zoning ordinance	N	
Other		
How can these capabilities be expanded and improved to reduce risk?		
The installation of backup power and additional storage will mitigate against the effects of a natural disaster effecting the customers of Durham Irrigation - The Capital Improvement Program could be expanded to address and reduce potential risks to District assets.		

Source: DID

J.5.2. Administrative/Technical Mitigation Capabilities

Table J-7 identifies the District department(s) responsible for activities related to mitigation and loss prevention in DID.

Table J-7 DID's Administrative and Technical Mitigation Capabilities

Administration	**In Place Y/N**	**Describe capability Is coordination effective?**
Staff		**Is staffing adequate to enforce regulations? Is staff trained on hazards and mitigation? Is coordination between agencies and staff effective?**
Chief Building Official	N	
Civil Engineer, including dam and levee safety	Y	The District uses contract engineering services.
Community Planner	N	
Emergency Manager	N	
Floodplain Administrator	N	
GIS Coordinator		
Planning Commission	N	
Other		

Technical	Y/N	Has capability been used to assess/mitigate risk in the past?
Grant writing	Y	The District uses contract grant services.
Hazard data and information	Y	Just as part of this LHMP
GIS analysis		
Mutual aid agreements	N	
Other		
How can these capabilities be expanded and improved to reduce risk?		
Contacting professional services has help the District continue to operate the District in a safe and reliable matter with maintaining fiscal solvency. Yes, the District could expand these services to identify opportunities to reduce risk. This includes mutual aid agreements and other expansions.		

Source: DID

J.5.3. Fiscal Mitigation Capabilities

Table J-8 identifies financial tools or resources that the District could potentially use to help fund mitigation activities.

Table J-8 DID's Fiscal Mitigation Capabilities

Funding Resource	In Place Y/N	Has the funding resource been used in past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital improvements project funding	N	The CIP could identify future mitigation actions.
Community Development Block Grant	Y	
Federal funding programs (non-FEMA)	Y	The District could not use these funds for future mitigation actions.
Fees for water, sewer, gas, or electric services	Y	The District recently conducted a Prop 218 Rate Increase, however, the increase did not take into consideration improvements necessary to minimize hazards.
Impact fees for new development	Y	The District could identify fees for new development that would ensure mitigation of hazards associated with no development.
State funding programs	Y	The District may be eligible for state funding programs.
Stormwater utility fee	N	
Other		
How can these capabilities be expanded and improved to reduce risk?		
The District continues to evaluate rates to invest in capital to maintain the safe operations of the District and potential mitigation of future hazards. - The District could identify potential outside funding sources to improve facilities to minimize risks.		

Source: DID

J.5.4. Mitigation Education, Outreach, and Partnerships

Table J-9 identifies education and outreach programs and methods already in place that could be/or are used to implement mitigation activities and communicate hazard-related information

Table J-9 DID's Mitigation Education, Outreach, and Partnerships

Program/Organization	In Place Y/N	How widespread are each of these in your community?
Community newsletters	N	
Hazard awareness campaigns (such as Firewise, Storm Ready, Severe Weather Awareness Week, school programs, public events)	N	
Local news	N	
Organizations that interact with underserved and vulnerable communities	N	
Social media	Y	We use Facebook to post any notices
Other		
How can these capabilities be expanded and improved to reduce risk?		
The District could expand its ability to reach its customer base in the case of a natural disaster - The District could identify potential programs and organizations that could assist with outreach and partnerships to educate residents of potential hazards, as applicable.		

Source: DID

J.5.5. Other Mitigation Efforts

The District noted no other completed or ongoing mitigation projects/efforts than what is included in the above tables.

J.6 Mitigation Strategy

J.6.1. Mitigation Goals and Objectives

The DID adopts the hazard mitigation goals and objectives developed by the HMPC and described in Chapter 5 Mitigation Strategy.

J.6.2. NFIP Strategy

While the District is not an eligible NFIP community and does not participate in the NFIP, some of the mitigation actions and projects below may contain measures to promote effective floodplain management throughout the Butte County Planning Area. Even though it does not participate in the NFIP, the District will support the NFIP actions of the County (and the cities) to the fullest extent possible.

J.6.3. Mitigation Actions

The planning team for the DID identified and prioritized the following mitigation actions based on the risk assessment. Background information and information on how each action will be implemented and administered, such as ideas for implementation, responsible office, potential funding, estimated cost, and timeline are also included. The following hazards were considered a priority for purposes of mitigation action planning:

- Drought & Water shortage

It should be noted that many of the projects submitted by each jurisdiction in Table 5-4 in the Base Plan benefit all jurisdictions whether or not they are the lead agency. Further, many of these mitigation efforts are collaborative efforts among multiple local, state, and federal agencies. In addition, the countywide public outreach action, as well as many of the emergency services actions, apply to all hazards regardless of hazard priority. Collectively, this multi-jurisdictional mitigation strategy includes only those actions and projects which reflect the actual priorities and capacity of each jurisdiction to implement over the next 5-years covered by this plan. It should further be noted, that although a jurisdiction may not have specific projects identified for each priority hazard for the five year coverage of this planning process, each jurisdiction has focused on identifying those projects which are realistic and reasonable for them to implement and would like to preserve their hazard priorities should future projects be identified where the implementing jurisdiction has the future capacity to implement.

Multi-Hazard Actions

Action 1. Pipe Replacement Program for Water Redundancy and Fire Flows

Hazards Addressed: Drought and water shortage.

Goals Addressed: 1, 2, 3, 4, 5

Issue/Background: Pipelines in the original central service area are approximately 50-75 years old. These pipelines range from 1 to 6 inches in diameter and are comprised of steel, asbestos cement, galvanized steel and cast iron. Many of these pipelines have reached their useful life and need to be replaced as age results in increasing numbers of leaks, water loss and service district disruption.

There have been three locations within the existing system that have been identified as having a gap or missing section of water main. Infilling these gaps will provide redundant water supply to all users south of Durham Dayton Highway and will increase the available flow and pressure for the users.

Project Description: The District has prioritized replacement of these lines according to the need and age for many of these pipelines but reserves the right to adjust the priority with Board action in the case of an emergency or failure. At the time of replacement, the District is proposing to increase the size of each line to increase the available flow and pressure for the users.

It is proposed to replace approximately 11,350 lineal feet of pipeline and 256 service connections from the main to the meter.

Other Alternatives: None

Existing Planning Mechanism(s) through which Action Will Be Implemented: Capital Improvement Plan

Responsible Office/Partners: Durham Irrigation District

Cost Estimate: $3,500,000

Benefits (Losses Avoided): Meet planned distribution and fire flow capacity needs.

Potential Funding: District fees and grants (State, Cal DWR and Cal OES; Federal, BRIC, HMGP, and PDM).

Timeline: 5 years.

Project Priority: High

Action 2. Well Improvements Station #3

Hazards Addressed: Drought and Water Shortage

Goals Addressed: 1, 2, 3, 4, 5

Issue/Background: Water well improvements to ensure water availability during power outage.

Project Description:

- Replace Station #3 building.
- Station #3 pressure tank rehabilitation.
- Install a new 6" sand filter at Station #3.
- Install new generator at Station #3.

Other Alternatives: None

Existing Planning Mechanism(s) through which Action Will Be Implemented: Capital Improvement Plan

Responsible Office/Partners: Durham Irrigation District

Cost Estimate: $210,000

Benefits (Losses Avoided): Ensure water supply during power outage.

Potential Funding: District fees and grants (State, Cal DWR and Cal OES; Federal, BRIC, HMGP, and PDM).

Timeline: 5 years.

Project Priority: High

RESOLUTION NO. 2024-02

A RESOLUTION OF THE DURHAM IRRIGATION DISTRICT ADOPTING THE BUTTE COUNTY LOCAL HAZARD MITIGATION PLAN 2024 UPDATE.

WHEREAS, the Durham Irrigation District (District) recognizes the threat that natural hazards pose to people and property within Butte County, California; and

WHEREAS, the Butte County, California has prepared a multi-hazard mitigation plan, hereby known as the Butte County Local Hazard Mitigation Plan 2024 Update in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, as amended; and the National Dam Safety Program Act, as amended; and

WHEREAS, Butte County Local Hazard Mitigation Plan 2024 Update identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the District from the impacts of future hazards and disasters; and

WHEREAS, adoption by the District demonstrates its commitment to hazard mitigation and achieving the goals outlined in the Butte County Local Hazard Mitigation Plan 2024 Update.

NOW THEREFORE, BE IT RESOLVED BY THE DURHAM IRRIGATION DISTRICT, CALIFORNIA, THAT:

The District adopts the Butte County Local Hazard Mitigation Plan 2024 Update. *While content related to the Butte County Local Hazard Mitigation Plan 2024 Update may require revisions to meet the plan approval requirements, changes occurring after adoption will not require the District to re-adopt any further iterations of the plan. Subsequent plan updates following the approval period for this plan will require separate adoption resolutions.*

BE IT FURTHER RESOLVED THAT:

The District will submit this adoption resolution to the California Office of Emergency Services and FEMA Region IX officials to enable the plan's final approval in accordance with the requirements of the Disaster Mitigation Act of 2000.

ADOPTED this 15TH day of October, 2024 by the following vote of the Board of Directors:

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Chair of the Board of Directors

Attest:

_____
Secretary to the Board of Directors

Durham Irrigation District
Risk Control Evaluation & Inspection Report

OVERVIEW

On August 28, 2024, SDRMA conducted a Risk Control Evaluation for the Durham Irrigation District. The purpose of the evaluation is three-fold. It is designed to review relevant workplace safety and risk exposures and requirements, evaluate how the District is managing those exposures, and provide guidance and recommendations when warranted. During the evaluation we also conducted site inspections at the office and three pump stations. .

We would like to express our appreciation to Jeannie Trizzino and Mike Butler for their participation and feedback during this process.

The District participates in SDRMA's Property/Liability Program. During the evaluation we discussed the District's operations and potential exposures. We referenced SDRMA's Risk Management Guidebook to assist with identifying applicable regulations and industry best practices. Based on the District's feedback, it was determined the following categories are applicable and were reviewed during the evaluation:

Property/Liability Program – Regulatory Compliance and Industry Best Practices

- ADA Compliance
- Contractual Risk Transfer
- Cybersecurity basics
- Employment Practices Liability
- Property/Hazard Inspections
- Driver safety and vehicle use

RECOMMENDATIONS

Based on information gathered during the evaluation and inspection, the following recommendations have been issued:

Hazard Inspection Recommendations:

24-1: Fire Prevention (office)	Ensure all fire extinguishers are serviced annually. The pictured extinguisher requires immediate servicing and should be replaced.

24-2: Fire Prevention (pump stations)	Ensure all electrical panels, covers, and/or junction boxes are fully enclosed. The pictured breaker panel is missing a slot cover increasing the risk of fire due to built up dust on components.

SDRMA ASSISTANCE

The SDRMA Risk Management Guidebook has been provided to assist the District with guidance on workplace safety and risk management best practices. It is also available in MemberPlus on the Risk Control page.

In addition, your SDRMA Risk Control team is available to assist with developing a recommendation action plan. We can also assist with Cal/OSHA compliance, written program development, hazard inspections, ergonomic evaluations, and training resources, at no cost to the District.

Please contact Eric Lucero, Sr. Risk Control Specialist, with any questions or feedback.

Direct: 916.231.4133
elucero@sdrma.org

Please note the SDRMA Risk Control Evaluation is not intended to cover all workplace safety and property/liability exposures. The information contained in this report is based on information gathered and observed at the time of the evaluation. The information does not guarantee that operations, whether noted or not, are in compliance with federal, state, or local laws or regulations.