



Hildale City Council Meeting

Wednesday, March 06, 2024 at 6:00 PM

320 East Newel Avenue, Hildale City, Utah 84784

Agenda

Notice is hereby given to the members of the Hildale City Council and the public, that the City Council will hold a public meeting on **Wednesday, March 6, 2024 at 6:00 p.m. (MDT)**, at 320 East Newel Avenue, Hildale City, Utah 84784.

Councilmembers may be participating electronically by video or telephone conference. The meeting will be broadcast to the public on Facebook Live under Hildale's City page. Members of the public may also watch the City of Hildale through the scheduled Zoom meeting.

Join Zoom Meeting

<https://zoom.us/j/95770171318?pwd=aUVSU0hRSFFHcGQvcUIPT3ZYK0p5UT09>

Meeting ID: 957 7017 1318

Passcode: 993804

or

<https://www.facebook.com/hildalecity/live/>

Comments during the public comment or public hearing portions of the meeting may be emailed to manager@hildalecity.com or privately messaged to Hildale City's Facebook page. All comments sent before the meeting may be read during the meeting and messages or emails sent during the meeting may be read at the Mayor's discretion.

Welcome, Introduction and Preliminary Matters: Mayor Jessop

Roll Call of Council Attendees: City Recorder Barlow

Pledge of Allegiance: By Invitation of Mayor Jessop

Conflict of Interest Disclosures: Mayor and Council Members

Special Recognitions:

1. City Council Community Recognition and Appreciation Award

Public Presentations:

Approval of Minutes of Previous Meetings: Council Members

- [2.](#) Consideration, discussion, and possible approval of February 7, 2024, City Council Meeting Minutes.

Public Comments: 3 minutes each - Discretion of Mayor Jessop

Council Comments: For items not on the agenda (10 minutes total)

Oversight Items: 10 minutes - Mayor Jessop

- [3.](#) Financial Report and Invoice Register approval

- [4.](#) City Managers report (Department reports included)

Public Hearing:

- [5.](#) The purpose of this hearing is to receive public comment concerning the Water Master Plan and certified Facilities Plan.

Appointments to Boards or Commissions: NONE

Unfinished Council Business:

6. Update on the Maxwell Park Project funding. (10 minutes Mayor Jessop)

New Council Business:

- [7.](#) Consideration, discussion, and possible action concerning Utility Advisory Board recommendation for the establishment of wage classification and wage steps. (10 minutes Utility Director Postema)

Calendar of Upcoming Events: 5 minutes - Mayor Jessop

- [8.](#) City Council Calendar

Executive Session: As needed

Adjournment: Mayor Jessop

Agenda items and any variables thereto are set for consideration, discussion, approval, or other action. Council Members may be attending by telephone. Agenda is subject to change up to 24 hours prior to the meeting. Individuals needing special accommodations should notify the City Recorder at 435-874-2323 at least three days prior to the meeting.



Hildale City Council Meeting

Wednesday, February 07, 2024 at 6:00 PM
320 East Newel Avenue, Hildale City, Utah 84784

Minutes

Welcome, Introduction and Preliminary Matters:

Mayor Jessop called meeting to order at 6:00pm

Roll Call of Council Attendees: City Recorder Barlow

PRESENT

Mayor Donia Jessop
Council Member Luke Merideth
Council Member JVar Dutson
Council Member Terrill Musser
Council Member Brigham Holm

ABSENT

Council Member Darlene Stubbs

Staff: Eric Duthie, Sirrene Barlow, Rob Radley, Nathan Fischer, Sammie Cawley

Pledge of Allegiance:

Council Member Dutson lead the Pledge of Allegiance.

Conflict of Interest Disclosures:

No conflict at this time.

Special Recognitions:

1. City Council Community Recognition and Appreciation Award

Council Member Musser recognized Joe C. Jessop for making Hildale City his home for years.

Public Presentations:

Approval of Minutes of Previous Meetings:

2. Consideration, discussion, and possible approval of January 10, 2024, City Council Meeting Minutes.

Council Members reviewed the meeting minutes for January 10, 2024.

Motion made by Council Member Musser to approve meeting for January 10, 2024, Seconded by Council Member Dutson.

Voting Yea: Council Member Merideth, Council Member Dutson, Council Member Musser, Council Member Holm
Motion Carries.

Public Comments: 3 minutes each -

No public comments.

Council Comments:

Council Member Musser wants to tell the Road Crew and their family for the work they do in bettering both communities.

Council Member Dutson looks forward to a new year.

Mayor Jessop reminded the public that when it is raining and muddy, we cannot get the road graters out. She acknowledged the work and efforts from all Hildale City employees.

Oversight Items:**3. Financial Report and Invoice Register approval**

City Manager Duthie presented to the Council the financial report. The Council discussed and reviewed the financial report.

Motion made by Council Member Dutson, to pay the bills as the funds become available. Seconded by Council Member Holm.

Voting Yea: Council Member Merideth, Council Member Dutson, Council Member Musser, Council Member Holm

Motion Carries.

4. City Managers report (Department reports included)

City Manager Duthie presented to the Council the managers' report that can be found in the packet.

Public Hearing:**5. Notice is hereby given to the members of the Hildale City Council and the public, that the City Council will hold a public hearing as part of the regular public meeting on Wednesday, February 7, 2024, at 6:00 p.m. (MDT), at 320 East Newel Avenue, Hildale City, Utah 84784.**

The purpose of this hearing is to receive public comment concerning the Water Master Plan and Certified Facilities Plan.

Public Hearing at 7:19 Motion made by Council Member Dutson to open Public Hearing, second by Council Member Holm. All in Favor.

Jerry Postema joined by Zoom to present the Water Impact fee.

No public comments.

Motion made by Council Member Dutson to close public hearing at 7:29pm, Second by Council Member Musser. All in Favor.

6. Notice is hereby given to the members of the Hildale City Council and the public, that the City Council will hold a public hearing as part of the regular public meeting on Wednesday, February 7, 2024, at 6:00 p.m. (MDT), at 320 East Newel Avenue, Hildale City, Utah 84784.

The purpose of this hearing is to receive public comment concerning land use assumptions.

Council Member Dutson made a motion to open Public Hearing at 7:29pm, second by Council Member Musser. All in Favor.

Melaine Zitting would like clarification on if there is a hold on new builds until the water master plan is approved.

Jerry Postema helped clarify the question.

Council Member Dutson made a motion to close the Public Hearing at 7:35pm. second by Council Member Musser. All in Favor.
Motion Carries

Appointments to Boards or Commissions:

Unfinished Council Business:

7. Update and status of the initiation of the process to create a special service district

Lawerance Barlow gave a brief update on the Special District Services.

New Council Business:

8. Update on the Maxwell Park Project funding.

Lawerance Barlow presented to the Council the update and future for Maxwell Park.

9. Update on the Dispatch Center/911 funding and operations improvements.

Chief Radley updated the Council on the Dispatch Center and the progress there.

10. Economic Development projects and updates

Lawerance Barlow presented to Council updates on meetings and contacts Mayor and himself have attended this past month.

Calendar of Upcoming Events:

11. City Council Calendar

Executive Session: As needed

Adjournment: Mayor Jessop

Mayor Jessop adjourned meeting at 8:17pm

Agenda items and any variables thereto are set for consideration, discussion, approval, or other action. Council Members may be attending by telephone. Agenda is subject to change up to 24 hours prior to the meeting. Individuals needing special accommodations should notify the City Recorder at 435-874-2323 at least three days prior to the meeting.

Minutes were approved at the City Council Meeting on _____.

Sirrene J. Barlow, City Recorder

CITY OF HILDALE
REVENUES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>TAXES</u>					
11-31-100 PROPERTY TAX - CURRENT YEAR	112,320.95	112,320.95	115,017.00	2,696.05	97.7
11-31-200 PROP TAX - DELINQUENT PR YR	8,072.16	8,072.16	36,799.00	28,726.84	21.9
11-31-300 GENERAL SALES & USE TAX	121,325.66	121,325.66	190,000.00	68,674.34	63.9
11-31-301 RAP TAX	10,800.42	10,800.42	35,298.00	24,497.58	30.6
11-31-400 FRANCHISE TAX - ENERGY & USE	.00	.00	4,395.00	4,395.00	.0
11-31-401 ENERGY & USE TAX	44,540.14	44,540.14	83,868.00	39,327.86	53.1
11-31-402 TELECOM LICENSE TAX	3,063.41	3,063.41	5,732.00	2,668.59	53.4
11-31-403 TRANSIENT ROOM TAX	12,429.66	12,429.66	18,000.00	5,570.34	69.1
11-31-700 FEE-IN-LIEU TX - PERSONAL PROP	8,498.78	8,498.78	18,500.00	10,001.22	45.9
11-31-900 PNLTY & INT ON DELINQ TAXES	531.54	531.54	2,000.00	1,468.46	26.6
TOTAL TAXES	321,582.72	321,582.72	509,609.00	188,026.28	63.1
<u>LICENSES AND PERMITS</u>					
11-32-100 BUSINESS LICENSE FEES	5,755.00	5,755.00	10,000.00	4,245.00	57.6
11-32-200 BUILDING PERMITS	15,783.32	15,783.32	35,000.00	19,216.68	45.1
11-32-300 LAND USE FEE'S	7,438.50	7,438.50	10,000.00	2,561.50	74.4
TOTAL LICENSES AND PERMITS	28,976.82	28,976.82	55,000.00	26,023.18	52.7
<u>INTERGOVERNMENTAL REVENUE</u>					
11-33-411 FD BEMS GRANT	.00	.00	147,059.00	147,059.00	.0
11-33-421 FD ASSISTANCE GRANT	.00	.00	7,500.00	7,500.00	.0
11-33-433 UDOT SAFE ROUTES TO SCHOOL GRA	.00	.00	283,824.00	283,824.00	.0
11-33-437 CORONAVIRUS RELIEF FUNDS	.00	.00	336,503.00	336,503.00	.0
11-33-438 UDOT 2022 GRANT	.00	.00	142,448.00	142,448.00	.0
11-33-560 CLASS C ROAD FUND	44,760.79	44,760.79	80,000.00	35,239.21	56.0
11-33-565 HIGHWAY/TRANSIT TAX	11,162.38	11,162.38	36,174.00	25,011.62	30.9
11-33-580 LIQUOR FUND ALLOTMENT	.00	.00	3,000.00	3,000.00	.0
11-33-582 INNOVATION CENTER	.00	.00	539,155.00	539,155.00	.0
TOTAL INTERGOVERNMENTAL REVENUE	55,923.17	55,923.17	1,575,663.00	1,519,739.83	3.6
<u>CHARGES FOR SERVICES</u>					
11-34-120 GRAMA, COPYING, ETC.	4,638.72	4,638.72	3,000.00	(1,638.72)	154.6
11-34-252 SRO POLICE	.00	.00	30,000.00	30,000.00	.0
11-34-915 GARKANE SERVICES	.00	.00	1,167.00	1,167.00	.0
TOTAL CHARGES FOR SERVICES	4,638.72	4,638.72	34,167.00	29,528.28	13.6

CITY OF HILDALE
REVENUES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

GENERAL FUND

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
	<u>FINES AND FORFEITURES</u>					
11-35-110	COURT FINES	27,283.50	27,283.50	35,000.00	7,716.50	78.0
11-35-210	BAIL AND BOND FORFEITURE	.00	.00	1,000.00	1,000.00	.0
	TOTAL FINES AND FORFEITURES	27,283.50	27,283.50	36,000.00	8,716.50	75.8
	<u>MISCELLANEOUS REVENUE</u>					
11-36-100	INTEREST EARNINGS - GEN FUND	7,503.44	7,503.44	10,000.00	2,496.56	75.0
11-36-110	MISCELLANEOUS REVENUE	8,630.00	8,630.00	.00	(8,630.00)	.0
11-36-210	RENTAL - OFFICES IN CITY BLDG	.00	.00	12,000.00	12,000.00	.0
11-36-600	SUNDRY REVENUES	177.88	177.88	.00	(177.88)	.0
11-36-800	LOT LEASES	29,798.38	29,798.38	54,597.00	24,798.62	54.6
11-36-910	SUNDRY REV - GEN FUND	4,236.15	4,236.15	5,000.00	763.85	84.7
	TOTAL MISCELLANEOUS REVENUE	50,345.85	50,345.85	81,597.00	31,251.15	61.7
	<u>CONTRIBUTIONS AND TRANSFERS</u>					
11-38-248	EVENT FEES	(3,894.88)	(3,894.88)	10,000.00	13,894.88	(39.0)
11-38-920	APPROP - CAPITAL PROJECTS	.00	.00	208,476.00	208,476.00	.0
	TOTAL CONTRIBUTIONS AND TRANSFERS	(3,894.88)	(3,894.88)	218,476.00	222,370.88	(1.8)
	TOTAL FUND REVENUE	484,855.90	484,855.90	2,510,512.00	2,025,656.10	19.3

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>GEN GOVT ADMINISTRATION</u>					
11-41-110 SALARIES-PERMANENT EMPLOYEES	81,333.41	81,333.41	56,698.00	(24,635.41)	143.5
11-41-111 SECRETARIAL STAFF	25,730.70	25,730.70	.00	(25,730.70)	.0
11-41-112 MAYOR	14,538.48	14,538.48	30,000.00	15,461.52	48.5
11-41-113 MANAGER	40,898.71	40,898.71	41,737.00	838.29	98.0
11-41-114 TREASURER	2,578.59	2,578.59	6,184.00	3,605.41	41.7
11-41-115 RECORDER	23,423.00	23,423.00	37,329.00	13,906.00	62.8
11-41-117 ATTORNEY	40,000.00	40,000.00	60,000.00	20,000.00	66.7
11-41-120 SALARIES-TEMPORARY EMPLOYEES	.00	.00	22,628.00	22,628.00	.0
11-41-130 PAYROLL TAXES	11,869.21	11,869.21	16,580.00	4,710.79	71.6
11-41-140 BENEFITS-OTHER	(12,625.82)	(12,625.82)	14,668.00	27,293.82	(86.1)
11-41-151 STIPENDS - CITY COUNCIL	2,730.00	2,730.00	6,860.00	4,130.00	39.8
11-41-152 STIPENDS - PLANNING COMMISSION	2,170.00	2,170.00	4,900.00	2,730.00	44.3
11-41-210 BOOKS, SUBSCR. & MEMBERSHIPS	20,472.25	20,472.25	5,000.00	(15,472.25)	409.5
11-41-230 TRAVEL & TRAINING	8,952.78	8,952.78	10,000.00	1,047.22	89.5
11-41-235 HEALTH & HYDRATION	1,735.37	1,735.37	3,000.00	1,264.63	57.9
11-41-240 OFFICE EXPENSE & SUPPLIES	3,060.94	3,060.94	3,000.00	(60.94)	102.0
11-41-241 COPIER & PRINTER	1,200.09	1,200.09	1,000.00	(200.09)	120.0
11-41-242 SERVICE FEES	4,037.56	4,037.56	1,000.00	(3,037.56)	403.8
11-41-244 PRINT & POSTAGE	4,680.35	4,680.35	4,600.00	(80.35)	101.8
11-41-250 EQUIPMENT SUPPLIES & MAINT	225.13	225.13	.00	(225.13)	.0
11-41-257 FUEL	1,839.59	1,839.59	4,000.00	2,160.41	46.0
11-41-271 MAINT & SUPPLY - BUILDING	3,302.70	3,302.70	7,000.00	3,697.30	47.2
11-41-272 MAINT & SUPPLY - IT	468.70	468.70	2,000.00	1,531.30	23.4
11-41-274 MAINT & SUPPLY EQUIPMENT	45.58	45.58	.00	(45.58)	.0
11-41-280 UTILITIES	891.17	891.17	4,000.00	3,108.83	22.3
11-41-285 POWER	1,044.24	1,044.24	4,000.00	2,955.76	26.1
11-41-287 TELEPHONE	9,164.15	9,164.15	9,000.00	(164.15)	101.8
11-41-310 PROFESSIONAL & TECHNICAL	20,459.53	20,459.53	20,000.00	(459.53)	102.3
11-41-311 ENGINEER	2,694.98	2,694.98	1,000.00	(1,694.98)	269.5
11-41-312 CONSULTANT	32,222.95	32,222.95	15,000.00	(17,222.95)	214.8
11-41-313 AUDITOR	6,930.00	6,930.00	20,000.00	13,070.00	34.7
11-41-315 INFORMATION TECHNOLOGY - SYSTE	.00	.00	3,000.00	3,000.00	.0
11-41-316 INFORMATION TECHNOLOGY - SERVI	12,430.41	12,430.41	3,000.00	(9,430.41)	414.4
11-41-317 INFORMATION TECHNOLOGY - CONS	.00	.00	3,000.00	3,000.00	.0
11-41-318 INFORMATION TECHNOLOGY - SOFTW	1,189.57	1,189.57	3,000.00	1,810.43	39.7
11-41-330 EDUCATION	120.00	120.00	3,000.00	2,880.00	4.0
11-41-350 ELECTIONS	976.50	976.50	.00	(976.50)	.0
11-41-510 INSURANCE	38,437.35	38,437.35	40,000.00	1,562.65	96.1
11-41-521 CREDIT CARD EXPENSE	1,054.61	1,054.61	1,500.00	445.39	70.3
11-41-720 BUILDINGS	16,678.00	16,678.00	3,000.00	(13,678.00)	555.9
11-41-743 EQUIPMENT - VEHICLE	1,043.13	1,043.13	20,000.00	18,956.87	5.2
11-41-785 INNOVATION CENTER	.00	.00	418,009.00	418,009.00	.0
TOTAL GEN GOVT ADMINISTRATION	428,003.91	428,003.91	908,693.00	480,689.09	47.1

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>MUNICIPAL COURT</u>					
11-42-110 SALARIES-PERMANENT EMPLOYEES	35,410.28	35,410.28	28,718.00	(6,692.28)	123.3
11-42-130 PAYROLL TAXES & BENEFITS	6,876.65	6,876.65	2,200.00	(4,676.65)	312.6
11-42-287 TELEPHONE	40.00	40.00	.00	(40.00)	.0
11-42-310 PROFESSIONAL & TECHNICAL	6,062.53	6,062.53	14,000.00	7,937.47	43.3
11-42-550 FINES, SURCHARGES - AOC	9,030.16	9,030.16	10,000.00	969.84	90.3
11-42-551 RESTITUTION PAYMENTS	232.91	232.91	1,000.00	767.09	23.3
11-42-552 BAIL, BOND PAYMENT RELEASE	800.00	800.00	2,000.00	1,200.00	40.0
11-42-790 OTHER	450.00	450.00	.00	(450.00)	.0
TOTAL MUNICIPAL COURT	58,902.53	58,902.53	57,918.00	(984.53)	101.7
<u>POLICE DEPARTMENT</u>					
11-43-242 SPECIAL EVENTS SERVICE	65.10	65.10	.00	(65.10)	.0
11-43-287 TELEPHONE	.00	.00	900.00	900.00	.0
11-43-310 PROFESSIONAL & TECHNICAL	975.00	975.00	.00	(975.00)	.0
11-43-980 INTRA-GOVT CHARGES	274,710.64	274,710.64	380,317.00	105,606.36	72.2
TOTAL POLICE DEPARTMENT	275,750.74	275,750.74	381,217.00	105,466.26	72.3
<u>FIRE DEPARTMENT</u>					
11-44-810 FD BEMS GRANT TRANSFER	34,236.15	34,236.15	147,059.00	112,822.85	23.3
11-44-980 INTRA-GOVT CHARGES	68,249.98	68,249.98	71,000.00	2,750.02	96.1
TOTAL FIRE DEPARTMENT	102,486.13	102,486.13	218,059.00	115,572.87	47.0
<u>BUILDING DEPARTMENT</u>					
11-45-110 SALARIES-PERMANENT EMPLOYEES	19,525.14	19,525.14	14,125.00	(5,400.14)	138.2
11-45-210 BOOKS, SUBSCR, & MEMBERSHIPS	375.00	375.00	200.00	(175.00)	187.5
11-45-330 EDUCATION	2,411.09	2,411.09	.00	(2,411.09)	.0
TOTAL BUILDING DEPARTMENT	22,311.23	22,311.23	14,325.00	(7,986.23)	155.8
<u>PUBLIC SAFETY DISPATCH</u>					
11-46-980 INTRA-GOVT CHARGES	76,112.00	76,112.00	112,952.00	36,840.00	67.4
TOTAL PUBLIC SAFETY DISPATCH	76,112.00	76,112.00	112,952.00	36,840.00	67.4

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>PUBLIC WORKS - STREETS & ROADS</u>					
11-47-110 SALARIES-PERMANENT EMPLOYEES	67,006.49	67,006.49	137,064.00	70,057.51	48.9
11-47-130 PAYROLL TAXES	5,617.30	5,617.30	12,534.00	6,916.70	44.8
11-47-140 BENEFITS-OTHER	3,744.54	3,744.54	11,087.00	7,342.46	33.8
11-47-210 BOOKS, SUBSCR, & MEMBERSHIPS	370.00	370.00	500.00	130.00	74.0
11-47-250 EQUIPMENT SUPPLIES & MAINT	414.57	414.57	3,000.00	2,585.43	13.8
11-47-255 EQUIPMENT RENT OR LEASE	1,274.00	1,274.00	3,000.00	1,726.00	42.5
11-47-257 FUEL	2,503.92	2,503.92	5,000.00	2,496.08	50.1
11-47-258 BULK OIL	.00	.00	2,000.00	2,000.00	.0
11-47-260 TOOLS & EQUIPMENT-NON CAPITAL	.00	.00	500.00	500.00	.0
11-47-272 MAINT & SUPPLY - OTHER	111.91	111.91	1,000.00	888.09	11.2
11-47-274 MAINT & SUPPLY EQUIPMENT	167.96	167.96	500.00	332.04	33.6
11-47-286 STREET LIGHTS	3,413.80	3,413.80	6,000.00	2,586.20	56.9
11-47-330 EDUCATION	400.00	400.00	.00	(400.00)	.0
11-47-410 SPEC DEPT MATERIALS & SUPPLIES	406.60	406.60	232,674.00	232,267.40	.2
11-47-743 EQUIPMENT - VEHICLE	160.00	160.00	2,000.00	1,840.00	8.0
11-47-953 SAFE ROUTES TO SCHOOL	93,582.91	93,582.91	293,626.00	200,043.09	31.9
TOTAL PUBLIC WORKS - STREETS & ROADS	179,174.00	179,174.00	710,485.00	531,311.00	25.2
<u>PUBLIC WORKS - PARKS</u>					
11-48-110 SALARIES-PERMANENT EMPLOYEES	34,109.14	34,109.14	51,545.00	17,435.86	66.2
11-48-120 SALARIES-TEMPORARY EMPLOYEES	.00	.00	5,000.00	5,000.00	.0
11-48-130 PAYROLL TAXES	2,696.58	2,696.58	4,020.00	1,323.42	67.1
11-48-140 BENEFITS-OTHER	262.50	262.50	.00	(262.50)	.0
11-48-230 TRAVEL, MEETINGS, AND TRAINING	40.00	40.00	500.00	460.00	8.0
11-48-240 OFFICE EXPENSE & SUPPLIES	1,116.00	1,116.00	500.00	(616.00)	223.2
11-48-250 EQUIPMENT SUPPLIES & MAINT	1,280.82	1,280.82	5,298.00	4,017.18	24.2
11-48-257 FUEL	1,320.34	1,320.34	2,000.00	679.66	66.0
11-48-260 TOOLS & EQUIPMENT-NON CAPITAL	1,293.03	1,293.03	2,500.00	1,206.97	51.7
11-48-272 MAINT & SUPPLY - OTHER	17,159.00	17,159.00	10,000.00	(7,159.00)	171.6
11-48-273 MAINT & SUPPLY - SYSTEM	443.55	443.55	.00	(443.55)	.0
11-48-274 MAINT & SUPPLY EQUIPMENT	.00	.00	2,000.00	2,000.00	.0
11-48-280 UTILITIES	2,395.38	2,395.38	5,000.00	2,604.62	47.9
11-48-285 POWER	2,089.55	2,089.55	4,000.00	1,910.45	52.2
11-48-287 TELEPHONE INET	1,667.23	1,667.23	2,500.00	832.77	66.7
11-48-410 SPECIAL PROJECT	615.51	615.51	10,000.00	9,384.49	6.2
TOTAL PUBLIC WORKS - PARKS	66,488.63	66,488.63	104,863.00	38,374.37	63.4
<u>COMMUNITY OUTREACH DEPARTMENT</u>					
11-49-250 EQUIPMENT SUPPLIES & MAINT	99.99	99.99	1,000.00	900.01	10.0
11-49-274 EQUIPMENT PURCHASE	584.20	584.20	1,000.00	415.80	58.4
11-49-410 SPECIAL PROJECT	7,384.65	7,384.65	.00	(7,384.65)	.0
TOTAL COMMUNITY OUTREACH DEPARTME	8,068.84	8,068.84	2,000.00	(6,068.84)	403.4

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
TOTAL FUND EXPENDITURES	1,217,298.01	1,217,298.01	2,510,512.00	1,293,213.99	48.5
NET REVENUE OVER EXPENDITURES	(732,442.11)	(732,442.11)	.00	732,442.11	.0

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

GF DEBT SERVICE

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
	<u>FIRE DEPT DEBT SERVICE</u>					
31-44-723	2018 CIB DETENTION POND	95,000.00	95,000.00	.00	(95,000.00)	.0
31-44-724	2018 CIB DETEN POND INTEREST	12,880.01	12,880.01	.00	(12,880.01)	.0
	TOTAL FIRE DEPT DEBT SERVICE	107,880.01	107,880.01	.00	(107,880.01)	.0
	TOTAL FUND EXPENDITURES	107,880.01	107,880.01	.00	(107,880.01)	.0
	NET REVENUE OVER EXPENDITURES	(107,880.01)	(107,880.01)	.00	107,880.01	.0

CITY OF HILDALE
REVENUES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

HILDALE CITY GRANTS

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>INTERGOVERNMENTAL REVENUE</u>					
41-33-400 BEMS GRANT REVENUES	39,909.78	39,909.78	.00	(39,909.78)	.0
41-33-438 INNOVATION CENTER GRANT	387,067.97	387,067.97	.00	(387,067.97)	.0
41-33-801 LIQUOR FUND ALLOTMENT	2,135.67	2,135.67	.00	(2,135.67)	.0
TOTAL INTERGOVERNMENTAL REVENUE	429,113.42	429,113.42	.00	(429,113.42)	.0
TOTAL FUND REVENUE	429,113.42	429,113.42	.00	(429,113.42)	.0

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

HILDALE CITY GRANTS

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
	<u>GF ADMIN GRANTS/LOANS/ALLOT</u>					
41-41-790	INNOVATION CENTER - GRANT EXP	155,625.29	155,625.29	.00	(155,625.29)	.0
	TOTAL GF ADMIN GRANTS/LOANS/ALLOT	155,625.29	155,625.29	.00	(155,625.29)	.0
	TOTAL FUND EXPENDITURES	155,625.29	155,625.29	.00	(155,625.29)	.0
	NET REVENUE OVER EXPENDITURES	273,488.13	273,488.13	.00	(273,488.13)	.0

CITY OF HILDALE
REVENUES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

2017 JUDGMENT RESOLUTION FUND

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
	<u>REVENUES</u>					
63-38-101	TRANSFER FROM GENERAL FUND	.00	.00	24,000.00	24,000.00	.0
63-38-102	TRANSFER FROM WATER FUND	.00	.00	8,000.00	8,000.00	.0
63-38-103	TRANSFER FROM WASTEWATER	.00	.00	8,000.00	8,000.00	.0
63-38-105	TRANSFER FROM GAS FUND	.00	.00	8,000.00	8,000.00	.0
	TOTAL REVENUES	.00	.00	48,000.00	48,000.00	.0
	TOTAL FUND REVENUE	.00	.00	48,000.00	48,000.00	.0

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

2017 JUDGMENT RESOLUTION FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>EXPENDITURES</u>					
63-41-310 PROFESSIONAL & TECHNICAL	31,719.49	31,719.49	28,000.00	(3,719.49)	113.3
63-41-315 LEGAL - GENERAL	.00	.00	20,000.00	20,000.00	.0
TOTAL EXPENDITURES	31,719.49	31,719.49	48,000.00	16,280.51	66.1
TOTAL FUND EXPENDITURES	31,719.49	31,719.49	48,000.00	16,280.51	66.1
NET REVENUE OVER EXPENDITURES	(31,719.49)	(31,719.49)	.00	31,719.49	.0

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

LITIGATION DEFENSE FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>EXPENDITURES</u>					
64-41-110 SALARIES-PERMANENT EMPLOYEES	22,289.69	22,289.69	.00	(22,289.69)	.0
64-41-271 MAINT & SUPPLY - OFFICE	206.92	206.92	.00	(206.92)	.0
TOTAL EXPENDITURES	22,496.61	22,496.61	.00	(22,496.61)	.0
TOTAL FUND EXPENDITURES	22,496.61	22,496.61	.00	(22,496.61)	.0
NET REVENUE OVER EXPENDITURES	(22,496.61)	(22,496.61)	.00	22,496.61	.0

CITY OF HILDALE
REVENUES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

JOINT ADMINISTRATION FUND

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
	REVENUES					
65-38-102	TRANSFER FROM WATER FUND	.00	.00	717,270.00	717,270.00	.0
65-38-103	TRANSFER FROM WASTEWATER	.00	.00	925,730.00	925,730.00	.0
65-38-105	TRANSFER FROM GAS FUND	.00	.00	21,304.00	21,304.00	.0
65-38-910	LANDFILL REVENUES	14,000.00	14,000.00	20,000.00	6,000.00	70.0
65-38-915	GARKANE SERVICES	8,169.00	8,169.00	12,000.00	3,831.00	68.1
	TOTAL REVENUES	22,169.00	22,169.00	1,696,304.00	1,674,135.00	1.3
	TOTAL FUND REVENUE	22,169.00	22,169.00	1,696,304.00	1,674,135.00	1.3

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

JOINT ADMINISTRATION FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>EXPENDITURES</u>					
65-41-110 SALARIES-PERMANENT EMPLOYEES	309,463.48	309,463.48	757,994.00	448,530.52	40.8
65-41-113 MANAGER	18,429.72	18,429.72	97,388.00	78,958.28	18.9
65-41-114 TREASURER	31,203.28	31,203.28	55,654.00	24,450.72	56.1
65-41-115 RECORDER	17,399.00	17,399.00	37,330.00	19,931.00	46.6
65-41-120 SALARIES-TEMPORARY EMPLOYEES	17,494.42	17,494.42	103,024.00	85,529.58	17.0
65-41-130 PAYROLL TAXES	29,001.82	29,001.82	81,600.00	52,598.18	35.5
65-41-140 BENEFITS-OTHER	63,256.27	63,256.27	123,900.00	60,643.73	51.1
65-41-144 PRINT AND POSTAGE	9,161.91	9,161.91	20,000.00	10,838.09	45.8
65-41-145 AUDITOR	46,278.75	46,278.75	20,000.00	(26,278.75)	231.4
65-41-150 STIPENDS - UTILITY BOARD	2,100.00	2,100.00	3,000.00	900.00	70.0
65-41-160 MERCHANT PROCESSING	.00	.00	1,000.00	1,000.00	.0
65-41-210 BOOKS, SUBSCR, & MEMBERSHIPS	1,999.81	1,999.81	4,200.00	2,200.19	47.6
65-41-230 TRAVEL	1,090.41	1,090.41	3,000.00	1,909.59	36.4
65-41-235 FOOD & REFRESHMENT	1,866.41	1,866.41	3,000.00	1,133.59	62.2
65-41-240 OFFICE EXPENSE & SUPPLIES	707.51	707.51	3,000.00	2,292.49	23.6
65-41-242 SERVICE FEES	4,037.54	4,037.54	1,000.00	(3,037.54)	403.8
65-41-250 EQUIPMENT SUPPLIES & MAINT	33,994.95	33,994.95	13,500.00	(20,494.95)	251.8
65-41-257 FUEL	18,917.99	18,917.99	39,700.00	20,782.01	47.7
65-41-260 TOOLS & EQUIPMENT-NON CAPITAL	10,142.30	10,142.30	10,000.00	(142.30)	101.4
65-41-271 MAINT & SUPPLY - OFFICE	5,162.93	5,162.93	5,000.00	(162.93)	103.3
65-41-280 UTILITIES	6,608.61	6,608.61	23,514.00	16,905.39	28.1
65-41-285 POWER	6,625.75	6,625.75	27,000.00	20,374.25	24.5
65-41-287 TELEPHONE	7,533.26	7,533.26	12,000.00	4,466.74	62.8
65-41-310 PROFESSIONAL & TECHNICAL	52,911.30	52,911.30	40,000.00	(12,911.30)	132.3
65-41-313 AUDITOR	14,070.00	14,070.00	20,000.00	5,930.00	70.4
65-41-315 LEGAL - GENERAL	.00	.00	4,000.00	4,000.00	.0
65-41-317 INFORMATION TECHNOLOGY - CONS	.00	.00	25,000.00	25,000.00	.0
65-41-318 INFORMATION TECHNOLOGY - SOFTW	44,944.01	44,944.01	27,000.00	(17,944.01)	166.5
65-41-319 INFORMATION TECHNOLOGY - SYSTE	.00	.00	10,000.00	10,000.00	.0
65-41-330 EDUCATION	4,275.40	4,275.40	10,000.00	5,724.60	42.8
65-41-510 INSURANCE	102,294.45	102,294.45	85,500.00	(16,794.45)	119.6
65-41-521 CREDIT CARD EXPENSE	9,588.68	9,588.68	.00	(9,588.68)	.0
65-41-580 RENT OR LEASE	6,112.17	6,112.17	10,000.00	3,887.83	61.1
65-41-620 MISC. SERVICES	12,655.76	12,655.76	.00	(12,655.76)	.0
65-41-720 BUILDINGS	450.00	450.00	3,000.00	2,550.00	15.0
65-41-741 EQUIPMENT - OFFICE	768.73	768.73	5,000.00	4,231.27	15.4
65-41-780 RESERVE PURCHASES	5,265.00	5,265.00	.00	(5,265.00)	.0
65-41-850 DEBT SERVICE - VEHICLE & EQUIP	17,627.51	17,627.51	11,000.00	(6,627.51)	160.3
TOTAL EXPENDITURES	913,439.13	913,439.13	1,696,304.00	782,864.87	53.9
TOTAL FUND EXPENDITURES	913,439.13	913,439.13	1,696,304.00	782,864.87	53.9
NET REVENUE OVER EXPENDITURES	(891,270.13)	(891,270.13)	.00	891,270.13	.0

CITY OF HILDALE
REVENUES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

WATER FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>OPERATING REVENUES</u>					
81-37-111 WATER SALES - METERED	236,026.40	236,026.40	495,930.00	259,903.60	47.6
81-37-121 WATER SALES - FLAT RATE	269,852.44	269,852.44	459,870.00	190,017.56	58.7
81-37-160 CONSTRUCTION REVENUE	.00	.00	5,000.00	5,000.00	.0
81-37-331 CONNECTION CHARGES	25,820.00	25,820.00	40,000.00	14,180.00	64.6
81-37-332 CONSTRUCTION & REPAIR	575.60	575.60	89,600.00	89,024.40	.6
81-37-351 SUNDRY OPERATING REVENUE	.00	.00	20,000.00	20,000.00	.0
81-37-411 INTEREST	28,599.97	28,599.97	22,000.00	(6,599.97)	130.0
81-37-412 PENALTIES	25,074.40	25,074.40	60,000.00	34,925.60	41.8
TOTAL OPERATING REVENUES	585,948.81	585,948.81	1,192,400.00	606,451.19	49.1
<u>NON-OPERATING REVENUE</u>					
81-38-102 TRANSFERS FROM R&R RESERVE	.00	.00	150,000.00	150,000.00	.0
81-38-361 LOAN PROCEEDS	.00	.00	460,000.00	460,000.00	.0
81-38-999 CONTINGENCY	.00	.00	400,000.00	400,000.00	.0
TOTAL NON-OPERATING REVENUE	.00	.00	1,010,000.00	1,010,000.00	.0
TOTAL FUND REVENUE	585,948.81	585,948.81	2,202,400.00	1,616,451.19	26.6

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

WATER FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>OPERATING EXPENDITURES</u>					
81-41-210 BOOKS, SUBSCR, & MEMBERSHIPS	969.00	969.00	3,000.00	2,031.00	32.3
81-41-230 TRAVEL	.00	.00	5,000.00	5,000.00	.0
81-41-235 FOOD & REFRESHMENT	.00	.00	1,000.00	1,000.00	.0
81-41-250 EQUIPMENT SUPPLIES & MAINT	512.10	512.10	5,000.00	4,487.90	10.2
81-41-257 FUEL	.00	.00	400.00	400.00	.0
81-41-260 TOOLS & EQUIPMENT-NON CAPITAL	127.28	127.28	10,000.00	9,872.72	1.3
81-41-273 MAINT & SUPPLY - SYSTEM	105,902.78	105,902.78	177,700.00	71,797.22	59.6
81-41-285 POWER	82,694.83	82,694.83	20,800.00	(61,894.83)	397.6
81-41-311 ENGINEER	42,755.00	42,755.00	40,100.00	(2,655.00)	106.6
81-41-314 LABORATORY & TESTING	4,310.47	4,310.47	12,500.00	8,189.53	34.5
81-41-315 LEGAL - GENERAL	.00	.00	1,300.00	1,300.00	.0
81-41-330 EDUCATION	1,780.00	1,780.00	3,500.00	1,720.00	50.9
81-41-340 SYSTEM CONSTRUCTION SERVICES	22,357.01	22,357.01	33,830.00	11,472.99	66.1
81-41-341 CONST-CUSTOMER'S INSTALLATION	6,219.06	6,219.06	5,000.00	(1,219.06)	124.4
81-41-432 SPECIAL DEPT SUPPLIES	19,675.91	19,675.91	23,000.00	3,324.09	85.6
81-41-580 RENT OR LEASE	951.36	951.36	.00	(951.36)	.0
TOTAL OPERATING EXPENDITURES	288,254.80	288,254.80	342,130.00	53,875.20	84.3
<u>NON-OPERATING EXPENDITURES</u>					
81-42-560 BAD DEBT EXPENSE	.00	.00	7,000.00	7,000.00	.0
81-42-730 IMPROVEMENTS OTHER THAN BLDGS	.00	.00	7,000.00	7,000.00	.0
81-42-742 EQUIPMENT - FIELD	.00	.00	1,000.00	1,000.00	.0
81-42-750 SP PROJECTS CAPITAL	173.09	173.09	460,000.00	459,826.91	.0
81-42-780 RESERVE PURCHASES	125,960.00	125,960.00	150,000.00	24,040.00	84.0
81-42-815 PRINC. & INT W.RIGHTS LOAN	.00	.00	61,300.00	61,300.00	.0
81-42-911 TRANSFERS TO JOINT ADMIN FUND	.00	.00	717,270.00	717,270.00	.0
81-42-912 TRANSFERS TO LITIGATION	.00	.00	12,000.00	12,000.00	.0
81-42-914 TRANSFERS TO 2017 JMT RES FUND	.00	.00	8,000.00	8,000.00	.0
81-42-960 TRANSFERS TO RESERVE FUNDS	.00	.00	36,700.00	36,700.00	.0
81-42-999 CONTINGENCY	.00	.00	400,000.00	400,000.00	.0
TOTAL NON-OPERATING EXPENDITURES	126,133.09	126,133.09	1,860,270.00	1,734,136.91	6.8
TOTAL FUND EXPENDITURES	414,387.89	414,387.89	2,202,400.00	1,788,012.11	18.8
NET REVENUE OVER EXPENDITURES	171,560.92	171,560.92	.00	(171,560.92)	.0

CITY OF HILDALE
REVENUES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

WASTEWATER FUND

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>OPERATING REVENUES</u>						
82-37-160	CONSTRUCTION REVENUE	.00	.00	10,000.00	10,000.00	.0
82-37-311	SERVICE CHARGES	491,730.20	491,730.20	804,470.00	312,739.80	61.1
82-37-312	SERVICE CHARGES - CPMCWID	112,596.96	112,596.96	196,000.00	83,403.04	57.5
82-37-331	CONNECTION CHARGES	.00	.00	11,530.00	11,530.00	.0
82-37-332	SERVICING CUSTOMER INSTALL	6,155.00	6,155.00	10,000.00	3,845.00	61.6
82-37-411	INTEREST	41,045.06	41,045.06	30,000.00	(11,045.06)	136.8
82-37-451	IMPACT FEE	64,500.00	64,500.00	600,000.00	535,500.00	10.8
82-37-452	IMPACT FEE - CPMCWID	625,425.00	625,425.00	48,500.00	(576,925.00)	1289.5
TOTAL OPERATING REVENUES		1,341,452.22	1,341,452.22	1,710,500.00	369,047.78	78.4
<u>NON-OPERATING REVENUES</u>						
82-38-102	TRANSFERS FROM R&R RESERVE	.00	.00	120,000.00	120,000.00	.0
82-38-361	LOAN PROCEEDS	.00	.00	500,000.00	500,000.00	.0
82-38-440	SUNDRY NON-OPERATING REVENUE	.00	.00	1,000.00	1,000.00	.0
82-38-999	CONTINGENCY	.00	.00	400,000.00	400,000.00	.0
TOTAL NON-OPERATING REVENUES		.00	.00	1,021,000.00	1,021,000.00	.0
TOTAL FUND REVENUE		1,341,452.22	1,341,452.22	2,731,500.00	1,390,047.78	49.1

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

WASTEWATER FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>OPERATING EXPENDITURES</u>					
82-41-210 BOOKS, SUBSCR, & MEMBERSHIPS	.00	.00	3,000.00	3,000.00	.0
82-41-230 TRAVEL	77.06	77.06	8,400.00	8,322.94	.9
82-41-235 FOOD & REFRESHMENT	.00	.00	600.00	600.00	.0
82-41-250 EQUIPMENT SUPPLIES & MAINT	.00	.00	3,000.00	3,000.00	.0
82-41-257 FUEL	2,621.50	2,621.50	5,400.00	2,778.50	48.6
82-41-260 TOOLS & EQUIPMENT-NON CAPITAL	.00	.00	3,500.00	3,500.00	.0
82-41-273 MAINTENANCE & SUPPLY - SYSTEM	8,104.72	8,104.72	131,000.00	122,895.28	6.2
82-41-274 MAINT & SUPPLY EQUIPMENT	29.92	29.92	71,670.00	71,640.08	.0
82-41-285 POWER	44,123.82	44,123.82	38,000.00	(6,123.82)	116.1
82-41-311 ENGINEER	5,408.50	5,408.50	58,000.00	52,591.50	9.3
82-41-314 LABORATORY & TESTING	700.00	700.00	3,000.00	2,300.00	23.3
82-41-315 LEGAL - GENERAL	.00	.00	2,500.00	2,500.00	.0
82-41-330 EDUCATION	1,900.00	1,900.00	5,300.00	3,400.00	35.9
82-41-340 SYSTEM CONSTRUCTION SERVICES	211,144.38	211,144.38	540,000.00	328,855.62	39.1
82-41-341 CONST-CUSTOMER'S INSTALLATION	.00	.00	10,000.00	10,000.00	.0
TOTAL OPERATING EXPENDITURES	274,109.90	274,109.90	883,370.00	609,260.10	31.0
<u>NON-OPERATING EXPENSES</u>					
82-42-560 BAD DEBT EXPENSE	.00	.00	10,000.00	10,000.00	.0
82-42-710 LAND	.00	.00	100,000.00	100,000.00	.0
82-42-720 BUILDINGS	.00	.00	30,000.00	30,000.00	.0
82-42-742 EQUIPMENT - FIELD	.00	.00	30,000.00	30,000.00	.0
82-42-750 SP PROJECTS CAPITAL	184,302.32	184,302.32	.00	(184,302.32)	.0
82-42-780 RESERVE PURCHASES	.00	.00	230,000.00	230,000.00	.0
82-42-812 PRINCIPAL ON BONDS - RDA B	.00	.00	35,000.00	35,000.00	.0
82-42-822 INTEREST ON BONDS - RDA - B	20,163.22	20,163.22	40,000.00	19,836.78	50.4
82-42-911 TRANSFERS TO JOINT ADMIN FUND	.00	.00	925,730.00	925,730.00	.0
82-42-912 TRANSFERS TO LITIGATION	.00	.00	12,000.00	12,000.00	.0
82-42-914 TRANSFERS TO 2017 JMT RES FUND	.00	.00	8,000.00	8,000.00	.0
82-42-960 TRANSFERS TO RESERVE FUNDS	.00	.00	134,400.00	134,400.00	.0
82-42-990 APPROPRIATION FOR FUND BALANCE	.00	.00	130,000.00	130,000.00	.0
82-42-999 CONTINGENCY	.00	.00	163,000.00	163,000.00	.0
TOTAL NON-OPERATING EXPENSES	204,465.54	204,465.54	1,848,130.00	1,643,664.46	11.1
TOTAL FUND EXPENDITURES	478,575.44	478,575.44	2,731,500.00	2,252,924.56	17.5
NET REVENUE OVER EXPENDITURES	862,876.78	862,876.78	.00	(862,876.78)	.0

CITY OF HILDALE
REVENUES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

GAS FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>OPERATING REVENUES</u>					
84-37-111 GAS SALES - METERED NAT GAS	243,511.41	243,511.41	800,000.00	556,488.59	30.4
84-37-112 GAS SALES - METERED PROPANE	136,288.68	136,288.68	796,069.00	659,780.32	17.1
84-37-113 GAS SALES - CYLINDER	2,650.22	2,650.22	8,700.00	6,049.78	30.5
84-37-114 GAS SALES - CYLINDER EXCHANGE	481.82	481.82	3,700.00	3,218.18	13.0
84-37-115 GAS SALES - CC METERED NAT GAS	26,260.78	26,260.78	.00	(26,260.78)	.0
84-37-121 NATURAL GAS SALES - FLAT RATE	21,945.59	21,945.59	38,000.00	16,054.41	57.8
84-37-122 PROPANE GAS - FLAT RATE	28,537.48	28,537.48	64,000.00	35,462.52	44.6
84-37-160 CONSTRUCTION REVENUE	28,655.53	28,655.53	100,000.00	71,344.47	28.7
84-37-331 CONNECTION CHARGES	2,995.00	2,995.00	8,000.00	5,005.00	37.4
84-37-351 SUNDRY OPERATING REVENUE	.00	.00	47,000.00	47,000.00	.0
84-37-411 INTEREST	27,295.60	27,295.60	25,000.00	(2,295.60)	109.2
84-37-412 PENALTIES	8,261.98	8,261.98	19,000.00	10,738.02	43.5
TOTAL OPERATING REVENUES	526,884.09	526,884.09	1,909,469.00	1,382,584.91	27.6
<u>NON-OPERATING REVENUES</u>					
84-38-102 TRANSFERS FROM R&R RESERVE	.00	.00	175,030.00	175,030.00	.0
84-38-316 INTRAGOVERNMENTAL GRANTS	.00	.00	250,000.00	250,000.00	.0
84-38-999 CONTINGENCY	.00	.00	400,000.00	400,000.00	.0
TOTAL NON-OPERATING REVENUES	.00	.00	825,030.00	825,030.00	.0
TOTAL FUND REVENUE	526,884.09	526,884.09	2,734,499.00	2,207,614.91	19.3

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

GAS FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>OPERATING EXPENDITURES</u>					
84-41-140 BENEFITS-OTHER	.00	.00	3,000.00	3,000.00	.0
84-41-210 BOOKS, SUBSCR, & MEMBERSHIPS	837.24	837.24	2,000.00	1,162.76	41.9
84-41-230 TRAVEL	.00	.00	5,000.00	5,000.00	.0
84-41-235 FOOD & REFRESHMENT	.00	.00	500.00	500.00	.0
84-41-250 EQUIPMENT SUPPLIES & MAINT	127.96	127.96	5,000.00	4,872.04	2.6
84-41-257 FUEL	1,695.68	1,695.68	3,500.00	1,804.32	48.5
84-41-260 TOOLS & EQUIPMENT-NON CAPITAL	.00	.00	8,000.00	8,000.00	.0
84-41-273 MAINT & SUPPLY SYSTEM	36,341.25	36,341.25	64,500.00	28,158.75	56.3
84-41-280 UTILITIES	145.35	145.35	.00	(145.35)	.0
84-41-285 POWER	642.47	642.47	2,000.00	1,357.53	32.1
84-41-311 ENGINEER	.00	.00	2,000.00	2,000.00	.0
84-41-315 LEGAL - GENERAL	.00	.00	2,000.00	2,000.00	.0
84-41-330 EDUCATION	3,912.90	3,912.90	6,200.00	2,287.10	63.1
84-41-340 SYSTEM CONSTRUCTION SERVICES	13,253.01	13,253.01	13,600.00	346.99	97.5
84-41-341 CONST-CUSTOMER'S INSTALLATION	1,190.01	1,190.01	40,000.00	38,809.99	3.0
84-41-431 NATURAL GAS COMMODITY SUPPLY	181,793.21	181,793.21	561,100.00	379,306.79	32.4
84-41-432 PROPANE GAS COMMODITY SUPPLY	105,684.10	105,684.10	626,500.00	520,815.90	16.9
84-41-434 NAT GAS COMMODITY TRANSPORT	24,961.50	24,961.50	27,700.00	2,738.50	90.1
84-41-510 INSURANCE	20,548.40	20,548.40	.00	(20,548.40)	.0
84-41-580 RENT OR LEASE	3,848.64	3,848.64	4,900.00	1,051.36	78.5
84-41-610 MISC. SUPPLIES	.00	.00	5,000.00	5,000.00	.0
TOTAL OPERATING EXPENDITURES	394,981.72	394,981.72	1,382,500.00	987,518.28	28.6
<u>NON-OPERATING EXPENDITURES</u>					
84-42-560 BAD DEBT EXPENSE	.00	.00	6,000.00	6,000.00	.0
84-42-710 LAND	.00	.00	5,000.00	5,000.00	.0
84-42-750 SP PROJECTS CAPITAL	.00	.00	278,700.00	278,700.00	.0
84-42-780 RESERVE PURCHASES	.00	.00	122,000.00	122,000.00	.0
84-42-911 TRANSFERS TO JOINT ADMIN FUND	.00	.00	470,730.00	470,730.00	.0
84-42-912 TRANSFERS TO LITIGATION	.00	.00	12,000.00	12,000.00	.0
84-42-914 TRANSFERS TO 2017 JMT RES FUND	.00	.00	8,000.00	8,000.00	.0
84-42-960 TRANSFERS TO RESERVE FUNDS	.00	.00	105,400.00	105,400.00	.0
84-42-999 CONTINGENCY	.00	.00	344,169.00	344,169.00	.0
TOTAL NON-OPERATING EXPENDITURES	.00	.00	1,351,999.00	1,351,999.00	.0
TOTAL FUND EXPENDITURES	394,981.72	394,981.72	2,734,499.00	2,339,517.28	14.4
NET REVENUE OVER EXPENDITURES	131,902.37	131,902.37	.00	(131,902.37)	.0

CITY OF HILDALE
REVENUES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

90 FUND HILDALE CITY FIBER DEP

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
	<u>OPERATING REVENUES</u>					
90-37-111	FIBER SALES	3,238.83	3,238.83	.00	(3,238.83)	.0
90-37-412	PENALTIES	22.58	22.58	.00	(22.58)	.0
	TOTAL OPERATING REVENUES	3,261.41	3,261.41	.00	(3,261.41)	.0
	<u>NON-OPERATING REVENUES</u>					
90-38-999	CONTINGENCY	.00	.00	125,113.00	125,113.00	.0
	TOTAL NON-OPERATING REVENUES	.00	.00	125,113.00	125,113.00	.0
	TOTAL FUND REVENUE	3,261.41	3,261.41	125,113.00	121,851.59	2.6

CITY OF HILDALE
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 9 MONTHS ENDING MARCH 31, 2024

Item 3.

90 FUND HILDALE CITY FIBER DEP

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
	<u>OPERATING EXPENDITURES</u>					
90-41-580	RENT OR LEASE	800.00	800.00	.00	(800.00)	.0
	TOTAL OPERATING EXPENDITURES	800.00	800.00	.00	(800.00)	.0
	<u>NON-OPERATING EXPENDITURES</u>					
90-42-999	CONTINGENCY	.00	.00	125,113.00	125,113.00	.0
	TOTAL NON-OPERATING EXPENDITURES	.00	.00	125,113.00	125,113.00	.0
	TOTAL FUND EXPENDITURES	800.00	800.00	125,113.00	124,313.00	.6
	NET REVENUE OVER EXPENDITURES	2,461.41	2,461.41	.00	(2,461.41)	.0

Invoice	Seq	Type	Description	Invoice Date	Due Date	Total Cost	GL Activity	Period	GL Account
1155 ARIZONA STRIP LANDFILL CORP									
COLL 0124	1	Invoice	LANDFILL SERVICES	02/09/2024	03/10/2024	40,605.87	0	02/24	11-21312
Total 1155 ARIZONA STRIP LANDFILL CORP:						40,605.87			
1430 CASELLE, INC.									
130432	1	Invoice	FORMS FOR MAILING.COM	01/30/2024	02/29/2024	1,110.00	0	02/24	65-41-144
130530	1	Invoice	CONTRACT FOR MARCH 24 - 90% UTILITIES - SPLIT DISTRIBUTION	02/01/2024	03/02/2024	1,167.30	0	02/24	65-41-318
130530	2	Invoice	CONTRACT FOR MARCH 24 - 10% ADMIN - SPLIT DISTRIBUTION	02/01/2024	03/02/2024	129.70	0	02/24	11-41-318
Total 1430 CASELLE, INC.:						2,407.00			
1481 CHEMTECH-FORD LABORATORIES, INC.									
4020042	1	Invoice	Water Tests	02/15/2024	03/16/2024	14.00	0	02/24	81-41-314
24B1159	1	Invoice	Water Tests	02/20/2024	03/21/2024	61.00	0	02/24	81-41-314
Total 1481 CHEMTECH-FORD LABORATORIES, INC.:						75.00			
1580 COLORADO CITY FIRE DEPARTMENT									
FEB24-IGA	1	Invoice	FIRE DEPT IGA	02/01/2024	02/16/2024	7,583.33	0	02/24	11-44-980
JAN24-IGA	1	Invoice	FIRE DEPT IGA	01/01/2024	01/16/2024	7,583.33	0	02/24	11-44-980
MAR24-IGA	1	Invoice	FIRE DEPT IGA	03/01/2024	03/16/2024	7,583.34	0	02/24	11-44-980
Total 1580 COLORADO CITY FIRE DEPARTMENT:						22,750.00			
2160 HILDALE CITY									
NAT 0124	1	Invoice	NATURAL GAS ENERGY AND USE TAX	02/09/2024	02/24/2024	3,985.11	0	02/24	84-21376
Total 2160 HILDALE CITY:						3,985.11			
2170 HILDALE CITY UTILITIES									
3180001-012	1	Invoice	Lab Shop Utilities	02/08/2024	02/23/2024	1,177.21	0	02/24	65-41-280
6077001-012	1	Invoice	CITY HALL UTILITIES - 33% Admin - Split Distribution	02/08/2024	02/23/2024	206.51	0	02/24	11-41-280
6077001-012	2	Invoice	CITY HALL UTILITIES - 67% Utilities - Split Distribution	02/08/2024	02/23/2024	419.27	0	02/24	65-41-280
6217001-012	1	Invoice	MAXWELL PARK UTILITIES	02/08/2024	02/23/2024	338.28	0	02/24	11-48-280
6231904-012	1	Invoice	MULBERRY ST BUILDING UTILITIES	02/08/2024	02/23/2024	516.69	0	02/24	41-41-790
6428701-012	1	Invoice	Propane Yard Lease	02/08/2024	02/23/2024	100.00	0	02/24	84-41-580
7011201-012	1	Invoice	PROPANE VAPORIZER	02/08/2024	02/23/2024	31.43	0	02/24	84-41-280
Total 2170 HILDALE CITY UTILITIES:						2,789.39			
2220 HOME DEPOT									
1616684	1	Invoice	GAS DEPT.	01/26/2024	02/25/2024	634.51	0	02/24	84-41-273
21353	1	Invoice	SEWER HEADWORKS BUILDING 70% SPLIT	01/17/2024	02/16/2024	926.04	0	02/24	82-41-340
21353	2	Invoice	SEWER HEADWORKS BUILDING 30% SPLIT	01/17/2024	02/16/2024	396.87	0	02/24	82-42-750
6616084	1	Invoice	OFFICE CLEANING SUPPLIES	01/21/2024	02/20/2024	206.92	0	02/24	64-41-271
Total 2220 HOME DEPOT:						2,164.34			
2671 LES OLSON COMPANY									
EA1376592	1	Invoice	MAINTENANCE CONTRACT - 75% UTILITIES	02/20/2024	03/21/2024	359.58	0	02/24	65-41-144

Invoice	Seq	Type	Description	Invoice Date	Due Date	Total Cost	GL Activity	Period	GL Account
EA1376592	2	Invoice	MAINTENANCE CONTRACT - 25% ADMIN	02/20/2024	03/21/2024	119.86	0	02/24	11-41-241
Total 2671 LES OLSON COMPANY:						479.44			
2850 MONSEN ENGINEERING, LLC									
PM-INV0269	1	Invoice	GPS Base Station	12/06/2023	01/05/2024	5,265.00	0	02/24	65-41-780
Total 2850 MONSEN ENGINEERING, LLC:						5,265.00			
3450 SCHOLZEN PRODUCTS COMPANY, INC.									
6802929-00	1	Invoice	Chlorine	01/30/2024	02/29/2024	111.14	0	02/24	81-41-273
3046025-00	1	Invoice	CYLINDER MONTHLY RENTAL	02/16/2024	03/17/2024	124.80	0	02/24	81-41-273
5571963	1	Invoice	GASKET	01/22/2024	02/21/2024	199.28	0	02/24	65-41-250
5571963	2	Adjustmen	GASKET	01/22/2024	02/21/2024	199.28-	0	02/24	65-41-250
5572624	1	Invoice	N-HOSE	01/26/2024	02/25/2024	205.43	0	02/24	65-41-250
5572624	2	Adjustmen	N-HOSE	01/26/2024	02/25/2024	205.43-	0	02/24	65-41-250
6803382-00	1	Invoice	Water Repair Fittings	02/05/2024	03/06/2024	1,727.40	0	02/24	81-41-273
6803399-00	1	Invoice	Sewer Lateral Repair Parts	02/05/2024	03/06/2024	706.52	0	02/24	82-41-273
6803399-01	1	Invoice	Sewer Lateral Repair Parts	02/14/2024	03/15/2024	63.10	0	02/24	82-41-273
6805035-00	1	Invoice	marking paint	02/14/2024	03/15/2024	671.76	0	02/24	65-41-250
6805514-00	1	Invoice	Steel pipe supports	02/14/2024	03/15/2024	147.52	0	02/24	81-41-273
6809148-00	1	Invoice	Hydrant Repair Parts	02/28/2024	03/29/2024	799.31	0	02/24	81-41-273
687320-00	1	Invoice	Water Treatment Plant Upgrade Project	02/26/2024	03/27/2024	1,523.56	0	02/24	81-41-273
Total 3450 SCHOLZEN PRODUCTS COMPANY, INC.:						5,875.11			
3560 SOUTH CENTRAL COMMUNICATIONS									
16343900 02	1	Invoice	MAXWELL PARK INTERNET	02/01/2024	02/16/2024	208.52	0	02/24	11-48-287
8297800 022	1	Invoice	CITY HALL PHONES & FAX LINES - 33% ADMIN - Split Distribution	02/01/2024	02/16/2024	318.39	0	02/24	11-41-287
8297800 022	2	Invoice	CITY HALL PHONES & FAX LINES - 67% UTILITIES - Split Distribution	02/01/2024	02/16/2024	646.42	0	02/24	65-41-287
Total 3560 SOUTH CENTRAL COMMUNICATIONS:						1,173.33			
3692 STEPHEN WADE AUTO CENTER									
5571774	1	Invoice	GASKET	01/18/2024	02/17/2024	136.09	0	02/24	65-41-250
5572238	1	Invoice	CORE RETURN	01/23/2024	02/22/2024	400.00-	0	02/24	65-41-250
5571963	1	Invoice	GASKET	01/22/2024	02/21/2024	199.28	0	02/24	65-41-250
5572624	1	Invoice	N HOSE	01/26/2024	02/25/2024	205.43	0	02/24	65-41-250
Total 3692 STEPHEN WADE AUTO CENTER:						140.80			
3740 SUNRISE ENGINEERING, INC.									
0138381	1	Invoice	LAGOON HEADWORKS RECONSTRUCTION	11/08/2023	12/08/2023	615.25	0	02/24	82-41-311
Total 3740 SUNRISE ENGINEERING, INC.:						615.25			
3930 TOWN OF COLORADO CITY									
10610	1	Invoice	PAYROLL SERVICES FOR ANDREW BARLOW 2023	01/31/2024	02/15/2024	694.62	0	02/24	11-45-110
10612	1	Invoice	DOJ COURT COST SHARING - CARTER	01/02/2024	01/31/2024	1,278.20	0	02/24	63-41-310
10613	1	Invoice	DOJ COURT COST SHARING - KEITH	01/02/2024	01/17/2024	3,009.60	0	02/24	63-41-310
10615	1	Invoice	VERIZON	02/02/2024	02/17/2024	2,307.87	0	02/24	11-41-287
10641	1	Invoice	General & Professional Liability						

Invoice	Seq	Type	Description	Invoice Date	Due Date	Total Cost	GL Activity	Period	GL Account
			& Auto Insurance	02/01/2024	02/16/2024	2,297.65	0	02/24	84-41-510
10641	2	Invoice	Risk Management Fund monthly prmt	02/01/2024	02/16/2024	598.35	0	02/24	65-41-510
10641	3	Invoice	TUITION REIMBURSEMENT FUND PORTION	02/01/2024	02/16/2024	239.34	0	02/24	65-41-140
10641	4	Invoice	PROPANE LIABILITY	02/01/2024	02/16/2024	270.90	0	02/24	84-41-510
10659	1	Invoice	GAS - PUBLIC WORKS - ADMIN	02/05/2024	02/20/2024	176.16	0	02/24	11-41-257
10659	2	Invoice	GAS - PUBLIC WORKS - PARKS	02/05/2024	02/20/2024	136.86	0	02/24	11-48-257
10659	3	Invoice	PROPANE TRUCK - FUEL	02/05/2024	02/20/2024	355.32	0	02/24	84-41-257
10659	4	Invoice	VAC TRUCK - FUEL	02/05/2024	02/20/2024	174.28	0	02/24	82-41-257
10659	5	Invoice	UTILITIES - FUEL	02/05/2024	02/20/2024	2,551.35	0	02/24	65-41-257
10659	6	Invoice	GAS - PUBLIC WORKS - HILDALE ROADS	02/05/2024	02/20/2024	702.29	0	02/24	11-47-257
10659	7	Invoice	ADMIN FEE FOR UTILITIES	02/05/2024	02/20/2024	130.34	0	02/24	65-41-257
10659	8	Invoice	ADMIN FEE FOR HILDALE ADMIN, ROADS AND PARKS	02/05/2024	02/20/2024	27.07	0	02/24	11-41-257
10661	1	Invoice	DOJ COURT COST SHARING - KEITH	02/08/2024	02/23/2024	2,390.85	0	02/24	63-41-310
PROST 0124	1	Invoice	AZ SALES TAX PROPANE	01/31/2024	02/15/2024	2,839.97	0	02/24	84-21371
WAT 0124	1	Invoice	AZ SALES TAX WATER	01/31/2024	02/15/2024	1,076.93	0	02/24	81-21371
10664	1	Invoice	JUF PAYROLL 02.16.24	02/15/2024	02/29/2024	19,016.92	0	02/24	65-41-110
10664	2	Invoice	GF PAYROLL	02/15/2024	02/29/2024	765.70	0	02/24	11-41-110
10664	3	Invoice	BLDG PAYROLL 02.16.24	02/15/2024	02/29/2024	861.01	0	02/24	11-45-110
10664	4	Invoice	PUBLIC WRKS PAYROLL 02.16.24	02/15/2024	02/29/2024	4,515.39	0	02/24	11-47-110
10664	5	Invoice	COURT PAYROLL 02.16.24	02/15/2024	02/29/2024	1,545.53	0	02/24	11-42-110
10664	6	Invoice	GF CITY MANAGER 02.16.24	02/15/2024	02/29/2024	2,945.38	0	02/24	11-41-113
10664	7	Invoice	GF CITY RECORDER 02.16.24	02/15/2024	02/29/2024	1,255.00	0	02/24	11-41-115
10664	8	Invoice	GF CITY TREASURER 02.16.24	02/15/2024	02/29/2024	242.92	0	02/24	11-41-114
10664	9	Invoice	JUF CITY MANAGER 02.16.24	02/15/2024	02/29/2024	1,262.31	0	02/24	65-41-113
10664	10	Invoice	JUF CITY RECORDER 02.16.24	02/15/2024	02/29/2024	1,255.00	0	02/24	65-41-115
10664	11	Invoice	JUF CITY TREASURER 02.16.24	02/15/2024	02/29/2024	2,186.25	0	02/24	65-41-114
10664	12	Invoice	INNOVATION CENTER	02/15/2024	02/29/2024	2,884.62	0	02/24	41-41-790
10664	13	Invoice	JUF PAYROLL TAXES 02.16.24	02/15/2024	02/29/2024	1,773.31	0	02/24	65-41-130
10664	14	Invoice	JUF BENEFITS 02.16.24	02/15/2024	02/29/2024	5,809.02	0	02/24	65-41-140
10664	15	Invoice	GF PAYROLL TAXES 02.16.24	02/15/2024	02/29/2024	453.95	0	02/24	11-41-130
10664	16	Invoice	GF BENEFITS 02.16.24	02/15/2024	02/29/2024	697.01	0	02/24	11-41-140
10664	17	Invoice	PUBLIC WRKS PAYROLL TAXES 02.16.24	02/15/2024	02/29/2024	334.08	0	02/24	11-47-130
10664	18	Invoice	PUBLIC WRKS PAYROLL TAXES 02.16.24	02/15/2024	02/29/2024	1,502.68	0	02/24	11-47-140
10664	19	Invoice	COURT PAYROLL TAX & BENEFITS	02/15/2024	02/29/2024	695.27	0	02/24	11-42-130
10664	20	Invoice	INNOVATION CENTER TAX AND BENEFITS	02/15/2024	02/29/2024	819.07	0	02/24	41-41-790
10664	21	Invoice	ADMIN FEES	02/15/2024	02/29/2024	254.10	0	02/24	11-41-242
10664	22	Invoice	ADMIN FEES	02/15/2024	02/29/2024	254.09	0	02/24	65-41-242
10668	1	Invoice	ADMIN FEES	02/16/2024	03/02/2024	232.38	0	02/24	65-41-242
10668	2	Invoice	ADMIN FEES	02/16/2024	03/02/2024	232.38	0	02/24	11-41-242
10668	3	Invoice	INNOVATION CENTER TAX AND BENEFITS	02/16/2024	03/02/2024	291.07	0	02/24	41-41-790
10668	4	Invoice	COURT PAYROLL TAX & BENEFITS	02/16/2024	03/02/2024	182.80	0	02/24	11-42-130
10668	5	Invoice	PUBLIC WRKS PAYROLL TAXES 02.02.24	02/16/2024	03/02/2024	412.35	0	02/24	11-47-140
10668	6	Invoice	PUBLIC WRKS PAYROLL TAXES 02.02.24	02/16/2024	03/02/2024	329.64	0	02/24	11-47-130
10668	7	Invoice	GF BENEFITS 02.02.24	02/16/2024	03/02/2024	200.88	0	02/24	11-41-140
10668	8	Invoice	GF PAYROLL TAXES 02.02.24	02/16/2024	03/02/2024	448.27	0	02/24	11-41-130
10668	9	Invoice	JUF BENEFITS 02.02.24	02/16/2024	03/02/2024	1,508.61	0	02/24	65-41-140

Invoice	Seq	Type	Description	Invoice Date	Due Date	Total Cost	GL Activity	Period	GL Account
10668	10	Invoice	JUF PAYROLL TAXES 02.02.24	02/16/2024	03/02/2024	1,967.93	0	02/24	65-41-130
10668	11	Invoice	INNOVATION CENTER	02/16/2024	03/02/2024	2,884.62	0	02/24	41-41-790
10668	12	Invoice	JUF CITY TREASURER 02.02.24	02/16/2024	03/02/2024	1,912.23	0	02/24	65-41-114
10668	13	Invoice	JUF CITY RECORDER 02.02.24	02/16/2024	03/02/2024	1,255.00	0	02/24	65-41-115
10668	14	Invoice	JUF CITY MANAGER 02.02.24	02/16/2024	03/02/2024	1,262.31	0	02/24	65-41-113
10668	15	Invoice	GF CITY TREASURER 02.02.24	02/16/2024	03/02/2024	212.47	0	02/24	11-41-114
10668	16	Invoice	GF CITY RECORDER 02.02.24	02/16/2024	03/02/2024	1,255.00	0	02/24	11-41-115
10668	17	Invoice	GF CITY MANAGER 02.02.24	02/16/2024	03/02/2024	2,945.38	0	02/24	11-41-113
10668	18	Invoice	COURT PAYROLL 02.02.24	02/16/2024	03/02/2024	1,461.34	0	02/24	11-42-110
10668	19	Invoice	PUBLIC WRKS PAYROLL 02.02.24	02/16/2024	03/02/2024	4,456.84	0	02/24	11-47-110
10668	20	Invoice	BLDG PAYROLL 02.02.24	02/16/2024	03/02/2024	838.50	0	02/24	11-45-110
10668	21	Invoice	GF PAYROLL 02.02.24	02/16/2024	03/02/2024	744.52	0	02/24	11-41-110
10668	22	Invoice	JUF PAYROLL 02.02.24	02/16/2024	03/02/2024	21,907.36	0	02/24	65-41-110
10671	1	Invoice	DOJ COURT COST SHARING - CARTER	02/27/2024	03/13/2024	897.05	0	02/24	63-41-310
Total 3930 TOWN OF COLORADO CITY:						120,425.49			
4055 UNIFIRST CORPORATION									
2310019007	1	Invoice	LAUNDRY	02/05/2024	03/06/2024	171.82	0	02/24	65-41-260
2310019508	1	Invoice	LAUNDRY	02/12/2024	03/13/2024	445.21	0	02/24	65-41-260
2310020021	1	Invoice	LAUNDRY	02/19/2024	03/20/2024	161.61	0	02/24	65-41-260
2310020562	1	Invoice	LAUNDRY	02/26/2024	03/27/2024	740.50	0	02/24	65-41-260
Total 4055 UNIFIRST CORPORATION:						1,519.14			
4202 ROCKY MOUNTAIN POWER									
68511976-00	1	Invoice	MONTHLY POWER	02/05/2024	03/06/2024	11.16	0	02/24	84-41-285
Total 4202 ROCKY MOUNTAIN POWER:						11.16			
4220 UTAH STATE TREASURER									
TC-55 0124	1	Invoice	SURCHARGES	02/05/2024	03/06/2024	1,435.38	0	02/24	11-42-550
Total 4220 UTAH STATE TREASURER:						1,435.38			
4221 UTAH STATE TAX COMMISSION									
STC 0124	1	Invoice	SALES AND USE TAX DECEMBER 2024	01/31/2024	03/01/2024	2,630.87	0	02/24	84-21375
Total 4221 UTAH STATE TAX COMMISSION:						2,630.87			
4605 SUMMIT ENERGY, LLC									
0124HILD	1	Invoice	Wholesale Gas Purchases	02/05/2024	03/06/2024	67,436.44	0	02/24	84-41-431
Total 4605 SUMMIT ENERGY, LLC:						67,436.44			
4694 PREFERRED PARTS									
15048-15344	1	Invoice	SERVICE SUPPLIES	01/30/2024	02/29/2024	32.99	0	02/24	11-41-250
15048-15367	1	Invoice	Utility Truck # 3221 Windshield Wipers	02/02/2024	02/29/2024	35.98	0	02/24	65-41-250
15048-15384	1	Invoice	Windsheild Wipers & Bulb Headlight Replacement	02/05/2024	02/29/2024	85.08	0	02/24	65-41-250
15048-15387	1	Invoice	Service Parts for Utility Truck#3221	02/05/2024	02/29/2024	89.33	0	02/24	65-41-250
15048-15404	1	Invoice	Utility Tuck 3141 Service	02/07/2024	02/29/2024	59.18	0	02/24	65-41-250
15048-15409	1	Invoice	WIPER BLADES FOR						

Invoice	Seq	Type	Description	Invoice Date	Due Date	Total Cost	GL Activity	Period	GL Account
			SIRRENE'S CAR	02/08/2024	02/29/2024	45.58	0	02/24	11-41-274
15048-15434	1	Invoice	MAGNETS TO HOLD LASER TO STEEL BEAM	02/12/2024	02/29/2024	31.32	0	02/24	81-41-273
15048-15451	1	Invoice	Batteries for Utility Truck 3171	02/14/2024	02/29/2024	288.96	0	02/24	65-41-250
15048-15464	1	Invoice	BATTERY FOR PARKS DEPT.	02/15/2024	02/29/2024	51.89	0	02/24	11-48-250
15048-15510	1	Invoice	Service Parts for Utility Truck#3152	02/21/2024	02/29/2024	55.07	0	02/24	65-41-250
15048-15520	1	Invoice	Battery Charger for Hildale Gas Yard	02/22/2024	02/29/2024	87.98	0	02/24	84-41-250
15048-15559	1	Invoice	Lights for Utility Truck 3171	02/27/2024	02/29/2024	18.94	0	02/24	65-41-250
Total 4694 PREFERRED PARTS:						882.30			
4750 DJB GAS SERVICES, INC.									
01485816	1	Invoice	CYLINDER RENTAL	01/31/2024	03/01/2024	29.92	0	02/24	65-41-250
01491116	1	Invoice	Gas for Welders at Labshop	02/22/2024	03/23/2024	182.14	0	02/24	65-41-250
Total 4750 DJB GAS SERVICES, INC.:						212.06			
4811 STEVE REGAN CO.									
1404077	1	Invoice	FERTILIZER AND WEEDAR	02/13/2024	02/29/2024	592.60	0	02/24	11-48-272
1404642	1	Invoice	DROUGHT BUSTER	02/16/2024	02/29/2024	187.50	0	02/24	11-48-272
Total 4811 STEVE REGAN CO.:						780.10			
5057 GARKANE ENERGY									
1684200 022	1	Invoice	MAXWELL PARK	02/14/2024	02/29/2024	544.75	0	02/24	11-48-285
1709902 022	1	Invoice	POWER PLANT WELL	02/14/2024	02/29/2024	52.82	0	02/24	81-41-285
1711203 022	1	Invoice	INNOVATION CENTER	02/14/2024	02/29/2024	110.26	0	02/24	41-41-790
1717500 022	1	Invoice	CENTENNIAL PARK LIFT STATION	02/21/2024	02/29/2024	827.34	0	02/24	82-41-285
1734500 022	1	Invoice	EAST WATER TANKS	02/21/2024	02/29/2024	61.11	0	02/24	81-41-285
1763000 022	1	Invoice	SPRINKLER PUMP STATION	02/14/2024	02/29/2024	221.39	0	02/24	82-41-285
1763900 022	1	Invoice	SEWER HEADWORKS	02/14/2024	02/29/2024	2,664.59	0	02/24	82-41-285
1768100 022	1	Invoice	Well #8	02/21/2024	02/29/2024	303.79	0	02/24	81-41-285
1772300 022	1	Invoice	Well #10	02/21/2024	02/29/2024	39.23	0	02/24	81-41-285
1772400 022	1	Invoice	Well #4	02/21/2024	02/29/2024	365.68	0	02/24	81-41-285
1772500 022	1	Invoice	CITY HALL POWER 67% SPLIT	02/14/2024	02/29/2024	300.56	0	02/24	65-41-285
1772500 022	2	Invoice	CITY HALL POWER 33% SPLIT	02/14/2024	02/29/2024	148.05	0	02/24	11-41-285
1775500 022	1	Invoice	WATER PLANT POWER	02/21/2024	02/29/2024	2,337.29	0	02/24	81-41-285
1780600 022	1	Invoice	Well #19	02/21/2024	02/29/2024	37.51	0	02/24	81-41-285
1781000 022	1	Invoice	Well #17	02/21/2024	02/29/2024	33.18	0	02/24	81-41-285
1782300 022	1	Invoice	Lab Shop Power	02/14/2024	02/29/2024	859.98	0	02/24	65-41-285
1782501 022	1	Invoice	Well #22	02/14/2024	02/29/2024	564.84	0	02/24	81-41-285
1787300 022	1	Invoice	PROPANE YARD	02/14/2024	02/29/2024	94.54	0	02/24	84-41-285
1790000 022	1	Invoice	STREET LIGHTS	02/14/2024	02/29/2024	488.32	0	02/24	11-47-286
1793900 022	1	Invoice	MILLION GALLON TANK	02/14/2024	02/29/2024	40.50	0	02/24	81-41-285
1945500 022	1	Invoice	ACADEMY AVE WELL	02/21/2024	02/29/2024	43.79	0	02/24	81-41-285
2026700 022	1	Invoice	Well #21	02/21/2024	02/29/2024	3,098.69	0	02/24	81-41-285
Total 5057 GARKANE ENERGY:						13,238.21			
5201 HYDRO SPECIALTIES CO.									
27929	1	Invoice	Water Meters	02/16/2024	02/29/2024	6,177.60	0	02/24	81-41-273
Total 5201 HYDRO SPECIALTIES CO.:						6,177.60			
5288 TOWN OF COLORADO CITY DISPATCH									
10639	1	Invoice	TOCC DISPATCH IGA	02/01/2024	02/29/2024	9,514.00	0	02/24	11-46-980

Invoice	Seq	Type	Description	Invoice Date	Due Date	Total Cost	GL Activity	Period	GL Account
Total 5288 TOWN OF COLORADO CITY DISPATCH:						9,514.00			
5290 TOWN OF COLORADO CITY POLICE									
10638	1	Invoice	POLICE SERVICE IGA	02/01/2024	02/29/2024	34,338.83	0	02/24	11-43-980
Total 5290 TOWN OF COLORADO CITY POLICE:						34,338.83			
5401 SHRED ST GEORGE									
5334702122	1	Invoice	65 GAL BULK SHRED - PAPER SHREDDING - 50% ADMIN	02/12/2024	02/29/2024	27.47	0	02/24	11-41-240
5334702122	2	Invoice	65 GAL BULK SHRED - PAPER SHREDDING - 50% UTILITIES	02/12/2024	02/29/2024	27.48	0	02/24	65-41-271
Total 5401 SHRED ST GEORGE:						54.95			
5471 PINNACLE GAS PRODUCTS									
162716	1	Invoice	regulators and pipe fittings	01/03/2024	02/29/2024	2,352.17	0	02/24	81-41-341
163817	1	Invoice	gas regulator and fittings	02/02/2024	02/29/2024	150.08	0	02/24	84-41-340
164021	1	Invoice	gas regulator and fittings	02/08/2024	02/29/2024	1,677.40	0	02/24	84-41-340
164022	1	Invoice	regulators and pipe fittings	02/08/2024	02/29/2024	157.76	0	02/24	81-41-341
Total 5471 PINNACLE GAS PRODUCTS:						4,337.41			
5518 CUSTOMER DEPOSIT									
3505805 013	1	Invoice	3505805 CUSTOMER DEPOSIT REFUND	01/31/2024	02/29/2024	174.17	0	02/24	81-21350
6830007 021	1	Invoice	6830007 CUSTOMER DEPOSIT REFUND	02/13/2024	02/29/2024	489.41	0	02/24	81-21350
6001104 022	1	Invoice	6001104 CUSTOMER DEPOSIT REFUND	02/20/2024	02/29/2024	47.08	0	02/24	81-21350
Total 5518 CUSTOMER DEPOSIT:						710.66			
5553 EXECUTECH UTAH, INC.									
31198	1	Invoice	OFFICE 365 G3 GCC (GOVERNMENT) 70% SPLIT	01/31/2024	02/29/2024	661.35	0	02/24	65-41-318
31198	2	Invoice	OFFICE 365 G3 GCC (GOVERNMENT) 30% SPLIT	01/31/2024	02/29/2024	283.44	0	02/24	11-41-316
31208	1	Invoice	IT MANAGEMENT SERVICES 70% SPLIT	02/01/2024	02/29/2024	2,625.00	0	02/24	65-41-318
31208	2	Invoice	IT MANGEMENT SERVICES ADMIN 30% SPLIT	02/01/2024	02/29/2024	1,125.00	0	02/24	11-41-316
Total 5553 EXECUTECH UTAH, INC.:						4,694.79			
5605 NGL SUPPLY CO. LTD									
NGL523519	1	Invoice	Propane tanker loads 2	02/16/2024	02/29/2024	17,667.22	0	02/24	84-41-432
NGL524329	1	Invoice	Propane tanker loads 2	02/20/2024	02/29/2024	5,297.38	0	02/24	84-41-432
NGL524330	1	Invoice	Propane tanker loads 2	02/20/2024	02/29/2024	13,560.28	0	02/24	84-41-432
Total 5605 NGL SUPPLY CO. LTD:						36,524.88			
5607 DOMINION ENERGY									
5948550000-	1	Invoice	Natural Gas Commodity	01/31/2024	02/29/2024	8,406.95	0	02/24	84-41-434
Total 5607 DOMINION ENERGY:						8,406.95			
5633 RATON, LLC									
1962	1	Invoice	SEWER HEADWORKS - 30% SPLIT	02/13/2024	02/29/2024	307.80	0	02/24	82-42-750

Invoice	Seq	Type	Description	Invoice Date	Due Date	Total Cost	GL Activity	Period	GL Account
1962	2	Invoice	SEWER HEADWORKS - 70% SPLIT	02/13/2024	02/29/2024	718.19	0	02/24	82-41-340
Total 5633 RATON, LLC:						1,025.99			
5646 XPRESS BILL PAY									
INV-XPR008	1	Invoice	Bill Pay Transactions and Account Maintenance	01/31/2024	02/29/2024	860.39	0	02/24	65-41-318
Total 5646 XPRESS BILL PAY:						860.39			
5712 CATALYST CONSTRUCTION									
153	1	Invoice	Fiber Server Office Rent	02/01/2024	02/29/2024	100.00	0	02/24	90-41-580
Total 5712 CATALYST CONSTRUCTION:						100.00			
5720 SUSAN STEED									
56	1	Invoice	PROPANE YARD BATHROOMS	02/02/2024	02/29/2024	18.00	0	02/24	65-41-271
56	2	Invoice	MULBERRY ST. BUILDING CLEANING	02/02/2024	02/29/2024	90.00	0	02/24	41-41-790
Total 5720 SUSAN STEED:						108.00			
5745 PUBLIC MANAGEMENT PARTNERS									
01-2024	1	Invoice	COURT MONITOR FEES FOR JANUARY 2024	02/07/2024	02/29/2024	726.83	0	02/24	63-41-310
Total 5745 PUBLIC MANAGEMENT PARTNERS:						726.83			
5759 ICON CONTRACTING									
4169	1	Invoice	INNOVATION CENTER CONSTRUCTION	02/20/2024	02/29/2024	26,290.00	0	02/24	41-41-790
Total 5759 ICON CONTRACTING:						26,290.00			
5801 FISCHER CONTRACTING									
1045	1	Invoice	SEWER HEADWORKS BUILDING REPAIRS 70% SPLIT	01/31/2024	02/29/2024	3,080.00	0	02/24	82-41-340
1045	2	Invoice	SEWER HEADWORKS BUILDING REPAIRS 30% SPLIT	01/31/2024	02/29/2024	1,320.00	0	02/24	82-42-750
Total 5801 FISCHER CONTRACTING:						4,400.00			
5821 JONES & DEMILLE ENGINEERING									
0132321	1	Invoice	HILDALE BOOSTER PUMP STATION DESIGN - PAY REQUEST 1	10/11/2023	02/29/2024	2,640.00	0	02/24	81-41-311
0133330	1	Invoice	HILDALE BOOSTER PUMP STATION DESIGN - PAY REQUEST 2	02/05/2024	02/29/2024	6,460.00	0	02/24	81-41-311
Total 5821 JONES & DEMILLE ENGINEERING:						9,100.00			
5824 CUSTOMER OVERPAYMENT									
COURT PMT	1	Invoice	DUPLICATE COURT PMT REFUND	03/13/2023	02/29/2024	50.00	0	02/24	11-42-550
Total 5824 CUSTOMER OVERPAYMENT:						50.00			
5825 ZION TROPHIES AND AWARDS									
1062	1	Invoice	MEDALS PLAQUES RIBBONS	02/02/2024	02/29/2024	21.35	0	02/24	11-41-240

Invoice	Seq	Type	Description	Invoice Date	Due Date	Total Cost	GL Activity	Period	GL Account
Total 5825 ZION TROPHIES AND AWARDS:						21.35			
5837 SOUTHWEST UTAH REGIONAL CLERKS ASSOCIAT									
020124	1	Invoice	SWRCA MEMBERSHIP DUES	02/01/2024	02/29/2024	20.00	0	02/24	11-41-210
Total 5837 SOUTHWEST UTAH REGIONAL CLERKS ASSOCIAT:						20.00			
5843 SINTONIA INC									
20	1	Invoice	CITY ATTORNEY	02/01/2024	02/29/2024	5,000.00	0	02/24	11-41-117
Total 5843 SINTONIA INC:						5,000.00			
5869 PRIORITY CONTRACTOR, LLC									
1087	1	Invoice	ROOFING DEPOSIT	02/22/2024	02/29/2024	9,760.00	0	02/24	41-41-790
Total 5869 PRIORITY CONTRACTOR, LLC:						9,760.00			
5875 VIEWPOINT FINANCIAL SERVICES, LLC									
2024-01HD	1	Invoice	FINANCIAL CONSULTING SERVICES - JANUARY 2024 30% SPLIT	02/05/2024	02/29/2024	2,157.75	0	02/24	11-41-312
2024-01HD	2	Invoice	FINANCIAL CONSULTING SERVICES - JANUARY 2024 70% SPLIT	02/05/2024	02/29/2024	5,034.75	0	02/24	65-41-145
Total 5875 VIEWPOINT FINANCIAL SERVICES, LLC:						7,192.50			
5879 LISA TIMPSON									
02052024	1	Invoice	REFUND FOR ACCIDENTAL USE OF PERSONAL CARD FOR LUNCHEON	02/05/2024	02/29/2024	14.37	0	02/24	11-41-310
02052024	2	Invoice	REFUND FOR USE OF PERSONAL CARD FOR CITY	02/05/2024	02/29/2024	49.46	0	02/24	11-41-235
Total 5879 LISA TIMPSON:						63.83			
5894 JERALD A POSTEMA									
1046-24	1	Invoice	UTILITIES DIRECTOR CONTRACT FOR JANUARY 2024	02/21/2024	02/29/2024	5,000.00	0	02/24	65-41-310
1046-24	2	Invoice	FOOD AND TRAVEL REIMBURSEMENT	02/21/2024	02/29/2024	926.48	0	02/24	65-41-310
1047-24	1	Invoice	UTILITIES DIRECTOR CONTRACT FOR FEBRUARY 2024	02/24/2024	02/29/2024	5,000.00	0	02/24	65-41-310
1047-24	2	Invoice	FOOD AND TRAVEL REIMBURSEMENT	02/24/2024	02/29/2024	622.06	0	02/24	65-41-310
Total 5894 JERALD A POSTEMA:						11,548.54			
5921 LORI WEDEMEYER									
12024	1	Invoice	JANUARY HR CONSULTING 50% SPLIT	01/29/2024	02/29/2024	750.00	0	02/24	11-41-312
12024	2	Invoice	JANUARY HR CONSULTING SPLIT 50%	01/29/2024	02/29/2024	750.00	0	02/24	65-41-310
12024	3	Invoice	TRAVEL REIMBURSEMENT	01/29/2024	02/29/2024	460.96	0	02/24	11-41-312
Total 5921 LORI WEDEMEYER:						1,960.96			
5928 TYLER BONZO									
012024	1	Invoice	PROSECUTION IN HILDALE JUSTICE COURT	01/29/2024	02/29/2024	1,100.00	0	02/24	11-42-310

Invoice	Seq	Type	Description	Invoice Date	Due Date	Total Cost	GL Activity	Period	GL Account
Total 5928 TYLER BONZO:						1,100.00			
5930 HOLIDAY RESORT MANAGEMENT, PC									
02012024	1	Invoice	APARTMENT RENT	02/01/2024	02/29/2024	1,002.49	0	02/24	65-41-580
Total 5930 HOLIDAY RESORT MANAGEMENT, PC:						1,002.49			
5932 The Data Center, LLC									
65709	1	Invoice	FULL COLOR STATEMENTS & POSTAGE	02/13/2024	02/29/2024	744.33	0	02/24	65-41-144
Total 5932 The Data Center, LLC:						744.33			
5933 HOMETOWN WELLNESS PLLC									
1041	1	Invoice	MITCH. PHYSICAL FOR CDL	01/30/2024	02/29/2024	100.00	0	02/24	84-41-330
1042	1	Invoice	NATE PHYSICAL FOR CDL	01/25/2024	02/29/2024	100.00	0	02/24	84-41-330
Total 5933 HOMETOWN WELLNESS PLLC:						200.00			
5935 DELUXE CORPORATION									
9003701540	1	Invoice	DEPOSIT SLIPS	01/23/2024	02/29/2024	237.63	0	02/24	65-41-144
Total 5935 DELUXE CORPORATION:						237.63			
5936 UPPER MESA ECONOMIC DEVELOPMENT GROUP									
02162024	1	Invoice	CONSULTING SERVICES	02/16/2024	02/29/2024	3,000.00	0	02/24	11-41-312
Total 5936 UPPER MESA ECONOMIC DEVELOPMENT GROUP:						3,000.00			
5937 WESTSIDE CONSTRUCTORS									
72	1	Invoice	INNOVATION CENTER ROCK WALL	02/23/2024	02/29/2024	56,330.00	0	02/24	41-41-790
Total 5937 WESTSIDE CONSTRUCTORS:						56,330.00			
Grand Totals:						542,499.70			

Report GL Period Summary

GL Period	Amount
02/24	542,499.70
Grand Totals:	542,499.70

Vendor number hash: 615860
Vendor number hash - split: 913273
Total number of invoices: 139
Total number of transactions: 211

Terms Description	Invoice Amount	Discount Amount	Net Invoice Amount
Net 15	151,123.32	.00	151,123.32
NET 30	130,872.86	.00	130,872.86

Terms Description	Invoice Amount	Discount Amount	Net Invoice Amount
Open Terms	260,503.52	.00	260,503.52
Grand Totals:	542,499.70	.00	542,499.70

To: Hildale City Mayor and Council
From: City Manager Eric Duthie
Date: March 1, 2023
Re: Monthly update and report for February 2024

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This is a general report of actions and administrative issues addressed during the previous month and advisory of actions and issues to address during the new month. If you have a specific question, please contact me directly.

General Information:

- Reviewed and approved permit applications
- Met with various residents to discuss issues and concerns.
- Staff meeting in person.
- Updated Facebook messaging.
- Economic Development Master Plan development ongoing
- Coordinated the rate study process with consultant.
- Coordinated media inquiries.
- Coordinated issues with the Upper Mesa Economic Development Group

Actions taken:

- ❖ External Agency/Group interchange:
 - Conducted various water strategies meetings.
 - Well certification process continuing.
 - ULCT Legislative Policy Committee participation
 - Dixie Transportation / Council of Mayors attended.
 - FY23 audit requests/responses continuing.
 - Continuing negotiation of a development agreement with Skye Valley Development
 - Hildale/Census follow up.
 - Continued coordination with legislature
 - Senator Owens
 - Representative Elison
 - Governor's Office of Planning and Budget
 - Governor's Senior Policy Advisor
 - Utah Geospatial Resource Center (GPS/Addressing)
 - Governor's Office of Economic Opportunity
 - Coordinated Special Service District issues.
 - Met in regional council for "Future Ready Utah" Academy in Kanab
 - Continued coordination of funding for the Maxwell Park Improvement project
 - Continued coordination with Mohave County to establish the Foreign Trade Zone for the Colorado City Airport
 - Facilitated contact between Arizona Department of Transportation and Five County Association of Governments

❖ Internal interchange:

- Innovation Center training and assistance continuing.
- Innovation Center infrastructure improvements underway
- Addressed multiple building permit inquiries.
- Continued approval process for Water Master Plan
- Continued approval process for Impact Fee Plan
- Conducted a Utility Advisory Board meeting.
- Reviewed all invoices for expenditure.
- Approved submission of a First Responder Mental Health Grant Application
- Coordinated access and submissions to the Utah Broadband Availability Challenge Portal
- Coordinated the Hildale City Justice Court Audit Follow-up Report
- Coordinated the recertification of the Hildale Justice Court
- Coordinated the UDOT Technical Planning Assistance grant.
- Reviewed the Utility department wage and classification plan.
- Reviewed a draft of the Public Works wage classification plan.
- Reviewed a Municipal Advisor agreement with Zions Public Financing
- Notified of denial of the SRTS grant.
- Prepared for Utah Department of Natural Resources Water Rights Transfer hearing.
- Prepared and presented an economic development update to the five County economic development group.
- Attended a Washington County School Board meeting to discuss Hildale and common legislative issues and concerns.
- Attended the Dixie Regional Transportation Expo 2024 in Dt. George
- Discussed issues with the Chairman of the Utah transportation Commission.
- Discussed issues with the Southern Utah Bicycle Association
- Discussed issues with the various city and town representatives concerning transportation issues.
- Coordinated a meeting to assist and develop community activities and leagues.
- Coordinated a meeting with Renaissance Festival organizers.
- Met with Garkane representatives to review administrative services agreement.

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Future actions

- Finalize follow-up to Justice Court Recertification Packet.
- Complete building upgrades for Innovation Center
- Continue discussions with the U.S. Census Department

HILDALE - COLORADO CITY FIRE DEPARTMENT

FIRE CHIEF'S REPORT TO THE BOARD

February 27, 2024

ADMINISTRATIVE ACTIONS: Kevin attended the Washington County meetings held on February 8, including the Training Officers, Fire Chiefs, EMS, and LEPC. Porter also attended the Training Officers group where there are beginning discussions on a county-wide training center in the Purgatory valley area near the Sheriff's Office.

On February 12, Kevin was present at a ground-breaking ceremony for a new St. George Fire Station 1 on 400 East.

Application was made to the Arizona Department of Forestry & Fire Management by the deadline for a Type 6 Brush Truck. The total of the project is \$393,304, with a state share of \$355,304, a local cash match of \$25,000, and a local in-kind match of \$13,200. A letter of support from Mohave County Supervisor Lingenfelter was also attached. The applications will be reviewed in March.

A Hildale FD application was made to the Utah Department of Public Safety for \$83,300 for first responder mental health resources. The application includes the Hildale Police Department and would provide mental health screenings, crisis management, peer support team development and membership training for a year.

We have been meeting monthly with the Kanab Fire Chief to coordinate response and training needs and shared resources. Chief Pierson is the Volunteer Rep on the Utah Fire Chiefs Association board and is able to provide updates regarding legislation and state resources.

On February 16, Kevin stopped into the Draper Fire Department for a retirement reception for Division Chief Bart Vaudrey. Chief Vaudrey acted as the Logistics Section Chief when the United Fire team spent a week in Hildale at the time of the 2015 flood event. Kevin also attended the Utah CISM Executive Committee meeting and planning session in Bountiful on February 17.

The Mohave County Fire Officers meeting was held at Fort Mohave Mesa on February 22.

TRAINING REPORT: The February ALS Inservice covered a case review of a 10 day old infant in cardiac arrest. The operational aspects of the call were covered, and since it was a stressful call, pointers on how to cope with the inevitable emotions were discussed. The training was presented by Paramedic and RN TJ Reidhead from Classic Air Medical on difficult airway techniques. Chief Barlow covered a few response guidelines for new EMT's. A catered meal was provided.

Daniel Roy attended a three day Division Supervisor course at the UFRA campus in Provo. The class was geared for the wildland command structure, but also applies to all-hazards responses.

Two in-house ACLS refresher classes were presented for members needing recertification.

Five of our officers attended a 16-hour class hosted by Hurricane Valley FD called Propane IQ. The course provided a very detailed look at propane and propane responses. Everyone attending came away

saying it was one of the best classes they had attended. The SWRRT region will be providing Propane Response kits to all agencies who attended.

The fire academy is going strong. The students will be doing live-fire drills soon. Local instructors have been putting in a great effort, along with instructors from Hurricane and Kanab. As part of the SAFER grant, several vendors have been given opportunities to present different brands of turnout gear. After close review, the Lion gear was chosen and the Sea Western representative came and measured each of the recruits for proper fit. The gear has been ordered.

MAINTENANCE REPORT: A110 is again operational with a new motor installed. DR used the vehicle to drive to a class in Provo in order to break the new motor in. The vehicle will be back in service within the new days. This brings the ambulance fleet back up to five—at least for a short time, as they are evaluating A109 for the need for a new turbocharger.

Several routine vehicle services were completed.

We still do not have the final delivery date set for the new Horton Ambulance.

FIRE PREVENTION: The CPR Training Center certified 29 community CPR/First-Aid students in January.

The Fire Marshal's report shows the importance and need for that position. In January and February there have been 9 inspections, 7 plan reviews, two fire investigations, and several days of training. A morning was spent at the Water Canyon High School Career Fair. The Knox Box program requires frequent audits and continual maintenance.

OTHER:

RESPECTFULLY SUBMITTED:



Kevin J. Barlow, Chief

2/20/24 – Single vehicle
rollover at MP 10 UT SR59





985 N. Box Elder St. Hildale, UT 84784
(435)212-4942

Eric Duthie - Hildale City Manager
320 Newel Ave.
Hildale, UT 84784

Date: 3/1/2024

Manager Duthie,

This department report represents work for the month of January and February at the HEAIC. It is intended as an update to be included in the monthly packet for the Mayor, Council, and the public.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bryan A. Bani', is written below the word 'Sincerely,'.

Financials

Category	Budget	Jan.	YTD
Water Service	\$77,171	\$0	\$0
Road/Parking	\$23,518*	\$0	\$0
Stabilize Bank	\$56,330	\$294	\$294
Building Ren.	\$51,460	\$0	\$0
Makerspace	\$0	\$0	\$0
Program Cost	\$17,743	\$681	\$681
Salary	\$86,996	\$6,879	\$6,879
Furniture	\$26,055	\$0	\$0
Total	\$339,273	\$7,854	\$7,854

Engagement

	Inquiries	One-On-One Meetings	Group Participants	Graduated Companies
2024				
Goals	80	12	50	5
Jan	3	3	14	1
Feb	6	5	0	0
YTD	9	8	12	1

Calendar

March	Event
23	eSports Gaming Event @SUU
April	
26	Empowering Women in Business Conference

*We are working with Adam Seay toward the launch of his esports software. He will have his first live event in March. Our local Women's Business Group is having their first Conference in April. Keep an eye out for marketing on these events.

Construction: The painting of the interior / exterior is partially completed. The roof will be replaced with a black metal, starting the middle of March. The dirt work and retaining wall are almost complete. We are just doing a last minute evaluation of color matching. We still have one more project, the emergency water (hydrant) installation.

Partner Meetings: The city held the regional partnership lunch. In addition, I held collaborative partner meetings with: The Creek Valley Prevention Coalition, YESCO and Hootboard for information regarding branding and signage, MCC regarding workforce development classes, the USDA with the intent to apply for grants in the future, the SUU/Southwest Tech startup program about hosting an event, the Utah MicroLoan Fund regarding sponsorship of our local Women's Business Conference in April, LSCI Americorp about staffing.

Events: We had our "start a business class" with four sessions over four weeks, in January. Our next series will be in May. We also held a webinar on starting a Shopify business. Other events that were held at the building were the Adult Coalition, the Youth Coalition, the UZONA Chamber Board, and the Apple Valley Ward Young Women.

Activities: I updated the grant budgets for two previously submitted EDA tourism grants totalling \$75,000. The award announcement will be in April. I represented the city at the WRAP meeting and the New Americans in Southern Utah Symposium. I attend the Future Ready Utah workshop in Kanab and toured the Kanab Tour Company and the BLM visitor center.



Utilities Monthly Report

February 2024

Gas Operations:

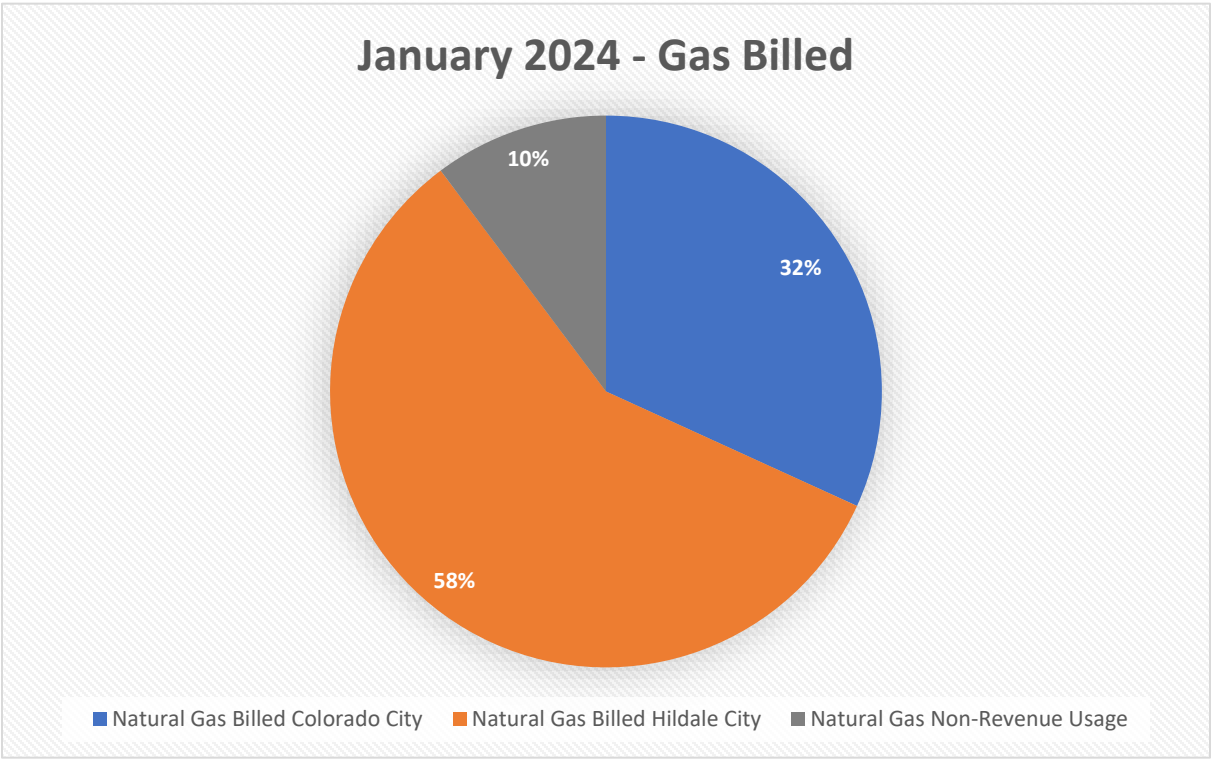
Gas staff extended natural gas service lines to five (5) properties on Apple Avenue, from 100 West to 300 West, and are working with the customers to get them fully connected to the gas service.





Natural Gas billed to Colorado City and Hildale City customers for January 2024.

Description	Quantity Billed*	Number of Customers
Natural Gas Purchased	8,918,000	
Natural Gas Billed Colorado City	2,837,000	375
Natural Gas Billed Hildale City	5,169,000	311
Natural Gas Non-Revenue Usage	912,000	
*Numbers are in Corrected Cubic Feet (100 Corrected Cubic Feet = 1 Therm)		





Sewer Operations:

The Utility Crew cleaned 1,950 feet of sewer main line this month. The sewer headworks screen at the sewer ponds is working as designed. Once the road conditions improve, as a maintenance measure staff will clean the sand out from the grit collection basin.

Staff created an Effective Guideline Practice (EGP) for Vac-Truck operations and a comprehensive daily pre-trip Vac-Truck inspection checklist that will greatly improve operator safety and address ongoing maintenance for equipment.



Water Operations:

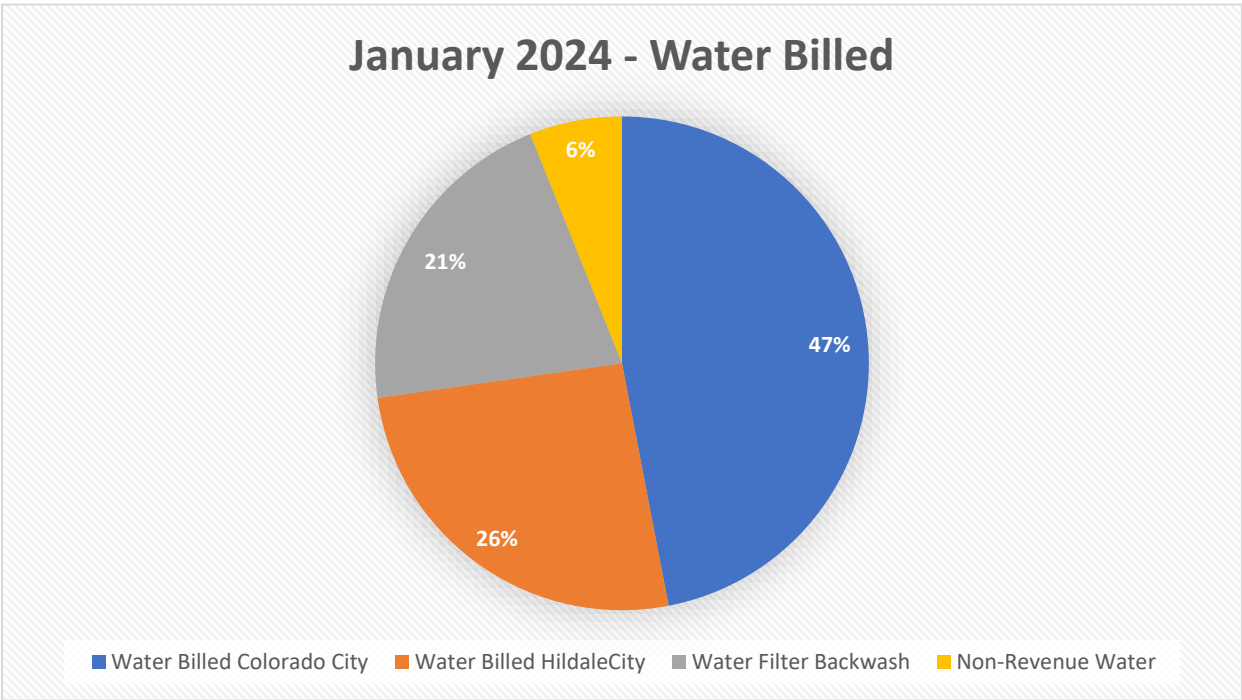
The Utility Department currently has four (4) inoperable fire hydrants that were damaged due to high usage by contractors and one that was installed incorrectly. Staff are repairing the hydrants. There will be a training program set up for contractors and others who use the hydrants as a preventive measure for the future.

Staff created an Effective Guideline Practice (EGP) for customer meter shutoffs and reconnects. Utility Field Technicians were given training in the guidelines.



Water billed to Colorado City and Hildale City customers for January 2024.

Description	Quantity Billed*	Number of Customers
Water Produced	17,481,000	
Water Billed Colorado City	10,419,000	795
Water Billed Hildale City	5,719,000	377
Water Filter Backwash	4,698,000	
Non-Revenue Water	1,343,000	
*Numbers are in gallons		





New Hires, Training, and Mapping System

We welcomed three (3) new Utility Technicians to the team this month! Staff have been working hard training the new hires. We congratulate two (2) of them for recently completing the Fire Marshall training and passing the exams!

The Utility Department worked with Sunrise Engineering to help improve the Cloud Smart Geographic Information System (GIS) and was given a demonstration on how to update the Utility maps. We are looking forward to using this system in the field to improve our mapping and line-locating abilities. See the example map below of water lines, valves, and meter locations.



(Utility Water System Map showing water mains and valve locations)

**Fiber Operations:**

Staff are working with TKS on trouble shooting a possible bad switch on the Utility fiber line which may be contributing to intermittent fluctuations in the signal to a TKS customer.

Administration:

Staff have ordered the pump, motor, Variable Frequency Drive (VFD), meter, Supervisory Control and Data Acquisition (SCADA) programs, valves, power supply, wiring and other items to place Well #17 in service once we have the proper permitting completed.

The bids were received for the Wells and Raw Water Line installation as part of the Mohave County Grant to Colorado City. Well bids were within the estimated costs and will be awarded Monday, March 4, 2024.

The Raw Water Line bids were significantly higher than estimated and will not be awarded as the funding is not available to complete the project as designed and bid. Staff will work with the Engineer to re-design the system and go out for a re-bid in April of 2024.

Utility Staff attended the Rural Water Association of Utah conference in Saint George the last week in February. The conference provides training for maintaining current certifications in Water and Sewer along with providing training and testing for employees for new or higher-level certifications.

Staff completed three (3) Effective Guideline Practices (EGP) for procedures in Water, Gas and Sewer. The EGP defines the level of potential hazards, the type of Personal Protective Equipment (PPE) needed to work on the jobs/tasks and how each step must be taken. As the job/task is being identified and placed into the EGP, staff are being trained in the process.

The Rate Study, through the Rural Community Assistance Corporation (RCAC), is now substantially complete and will be reviewed by the Utility Advisory Board (UAB)



at a special Work Session on March 7, 2024, led by RCAC staff to verify the opportunities to increase rates and provide for conservation measures, as required by EPA, Arizona, and Utah. Once the initial rate options have been discussed and reviewed by the UAB and further action taken, if needed, a recommendation and review with the Councils will be scheduled. The project is being funded through the United States Department of Agriculture – Rural Development (USDA-RD).

Second compliance sampling for PFAS was completed at all the water sources in the HCC system at the end of February. Once we get the results, we will work with Utah Division of Drinking Water (DDW) and Arizona Department of Environmental Quality (ADEQ) for what, if any, steps need to be taken.

Staff have been working on design and cost for the installation of a Booster Pump Station to eliminate the low-pressure zone in the southwest portion of Hildale. The consulting engineer has located the best place in the system to install the booster pumps to provide the greatest positive impact to the system. The booster pumps will allow construction of buildings and provide increased fire flows for the area.

Staff are working with the Water Infrastructure Finance Authority (WIFA) Loan/Grant, for the maintenance of the 600,000 (6K) gallon and 800,000 (8K) gallon tank. The 6K tank needs to be taken out of service and the inside cleaned, painted, and placed back in service. The 8K tank needs cathodic protection installed and the exterior cleaned and painted. Given the timing of the work and bidding process, the work will be done after the peak summer season of 2024.

Utilities staff have decided on the conversion of the current gas and water meter reading system using an updated radio read system that will provide better service and reliability. The system will be put out for bid and selection of a provider soon and presented to the UAB and Councils. The current system, Badger Meter, has discontinued the gas meter portion of their sales. Staff recommend moving to a generic reading system that can be used on all existing meters. The price for conversion and the reading devices would be significantly cheaper than making a change to another meter and radio reading company.



Utility Staff have been working on energy efficiency programs for the wells, treatment plant and sewer plant by installing Variable Frequency Drives (VFD), the investigation includes finding grants for the purchase and installation of the VFD's. The VFD's reduce electrical use and will provide cost savings in the system and to the community.

Staff have started discussions with Apple Valley and Centennial Park on Sewer opportunities.

HILDALE CITY & TOWN OF COLORADO CITY CULINARY WATER MASTER PLAN UPDATE

January 2024

DRAFT

PREPARED BY:



SUNRISE ENGINEERING, INC.
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Appendix A – Growth Analysis

Appendix B – Water Use Analysis

Appendix C – Engineers Opinion of Probable Cost

Appendix D – System Maps

Appendix E – Impact Fee Analysis

Appendix F – Impact Fee Certification

I. INTRODUCTION

Hildale City is located along Highway 59 in Washington County in southwestern Utah. The Town of Colorado City is neighboring Hildale, just across the border in Mohave County, Arizona. The water system is shared and funded by both communities (city) and is operated and maintained by the Hildale & Colorado City Utility Department (HCCUD) through an Inter-Governmental Agreement (IGA) with Colorado City. This plan was created with coordination from staff from Hildale City, the Town of Colorado City and the HCCUD.

Hildale City completed a previous Culinary Water Master Plan Update in 2020, which was an update to their 2014 plan. Hildale City has contracted with Sunrise Engineering to complete an update to the 2020 plan. While this is a shorter window between plans than is typical, the city has recognized that conditions and future projections have changed significantly in that short time period. The intent of this update is to account for these changes.

The culinary water system has been analyzed under the State of Utah Division of Drinking Water guidelines to determine the current system status and to evaluate possible system needs as the community grows during the next 20 years. As part of this plan, Sunrise Engineering, Inc. has included recommended improvements to the culinary water system and has developed a potential financing plan that will help Hildale City and the Town of Colorado City obtain the necessary funds for the recommended improvements.

This plan also serves as the Impact Fee Facilities Plan for Hildale City and includes an Impact Fee Analysis. This plan also serves as the Infrastructure Improvements Plan for the Town of Colorado City.

This report does not analyze water rights or a secondary water system. This plan also does not include a user rate analysis.

II. SYSTEM USERS' ANALYSIS

A. LENGTH OF PLANNING PERIOD

It is typical for a master plan to use a 10 or 20-year planning period. The first year of a 10-year planning period would be the calendar year 2024 with the 10th and final year being 2033. This plan will use fiscal years and will assume a 20-year (2024-2043) planning period for recommended improvements. This period will allow an adequate evaluation of the system for potential infrastructure improvements or other needs. Revenue sources should be carefully evaluated each year as budgets are set by the city and town council.

B. PROJECTED GROWTH RATE

An important element in the development of the water system and capacity analysis is the projection of the city's population growth rate on an annual basis. This projection gives the planner an idea of the potential future demands on the culinary water system for the length of the planning period.

Projecting the number of future culinary water connections can be a subjective process. The most effective method of estimating the number of future connections is by analyzing past historical numbers of connections and census records. Because Hildale and Colorado City utilize the same water system, the census records and past numbers of connections of both Hildale and Colorado City were included in the analysis. In the past five years the communities have seen a fluctuation of positive and negative growth rates. Due to this fluctuation, analyzing the historical growth rates is an inaccurate method of predicting future growth for these communities. Figure II-1 below shows the historic population in both communities.

Figure II-1: Historic Population

Calendar Year	Hildale Population	Colorado City Population	Total Population	Est. Growth Rate	Number of Connections
2018	2,916	4,825	7,741	0.21%	863
2019	2,910	4,836	7,746	0.06%	763
2020	2,727	4,531	7,258	-6.30%	799
2021	2,825	4,694	7,519	3.60%	855
2022	2,931	4,871	7,802	3.76%	1,113

At the time of the previous plan, the communities anticipated minimal to no growth for the first few years of the planning window. However, in the past few years the communities have seen a significant increase in number of connections, and there are multiple new developments that are in various stages of construction and planning that are anticipated to come to each community in the planning window. Development is anticipated to continue at a relatively high rate for the length of the planning window. This abrupt change in growth is one of the main reasons the city is updating their culinary water master plan after only a few years.

Staff and elected officials from both communities looked at the upcoming developments in different stages of the approval process to determine a realistic number of anticipated new connections in future years. The number of anticipated new connections was used to determine a growth rate. In the discussions with staff from each community, it was determined that based on the expected timeline of new developments, a higher than typical growth rate will be assumed over the 20-year planning period. The following growth rates were used for this study:

- 2024-2028 (first 5 years) – 10% per year
- 2029-2033 (second 5 years) – 12% per year
- 2034-2038 (third 5 years) – 10% per year
- 2039-2043 (last 5 years) – 8% per year

C. PROJECTED POPULATION & NUMBER OF CONNECTIONS

Based on the forecasted growth rates referenced above, the number of connections the city will need to plan for can be calculated with the compound interest formula shown below.

$$F = P(1 + i)^N$$

F = Future Population P = Present Population

i = Projected Growth Rate N = Years

This equation was used to project the community population and number of connections for each year in the planning period. Figure II-2 below shows a summary of the growth rate analysis. Appendix A shows the full analysis.

Figure II-2: Growth Rate Analysis Summary

Calendar Year	Est. Growth Rate	Hildale Population	Colorado City Population	Total Population	Hildale Connections	Colorado City Connections	Total Connections
2023		3,224	5,358	8,582	435	790	1,224
2024	10.0%	3,547	5,894	9,440	478	869	1,347
2025	10.0%	3,901	6,483	10,384	526	956	1,481
2026	10.0%	4,291	7,132	11,423	578	1,051	1,630
2027	10.0%	4,720	7,845	12,565	636	1,156	1,792
2028	10.0%	5,192	8,629	13,822	700	1,272	1,972
2029	12.0%	5,816	9,665	15,480	784	1,425	2,208
2030	12.0%	6,513	10,825	17,338	878	1,596	2,473
2031	12.0%	7,295	12,124	19,419	983	1,787	2,770
2032	12.0%	8,170	13,578	21,749	1,101	2,001	3,103
2033	12.0%	9,151	15,208	24,359	1,233	2,242	3,475
2034	10.0%	10,066	16,729	26,794	1,357	2,466	3,822
2035	10.0%	11,073	18,401	29,474	1,492	2,712	4,205
2036	10.0%	12,180	20,241	32,421	1,641	2,984	4,625
2037	10.0%	13,398	22,266	35,663	1,806	3,282	5,088
2038	10.0%	14,738	24,492	39,230	1,986	3,610	5,596
2039	8.0%	15,917	26,452	42,368	2,145	3,899	6,044
2040	8.0%	17,190	28,568	45,758	2,317	4,211	6,528
2041	8.0%	18,565	30,853	49,418	2,502	4,548	7,050
2042	8.0%	20,050	33,321	53,372	2,702	4,912	7,614
2043	8.0%	21,654	35,987	57,641	2,918	5,305	8,223

It is important to understand that projected growth rates are not the cornerstone of this plan. If the number of system connections projected is reached earlier or later than anticipated, future improvements to support growth may come either earlier or later.

D. PROJECTED EQUIVALENT RESIDENTIAL UNITS (ERU)

The water system is made up of multiple connection types. Hildale City and the Town of Colorado City report their different connections to the state as either residential, commercial, industrial, or institutional. Figure II-3 shows a summary of the number of connections by type.

Figure II-3: Total Number of Units Per Connection Type

Year	Residential	Commercial	Industrial	Institutional	Total
2018	730	72	24	37	863
2019	667	66	18	12	763
2020	695	70	20	14	799
2021	742	75	23	15	855
2022	939	98	28	48	1,113
2023	1,033	108	31	53	1,225

Each of these different connection types use different amounts of water at different flow rates. To properly analyze the systems usage, the number of connections is converted to equivalent residential units (ERU). This is done by taking the usage per connection of each connection type and dividing by the usage per connection of the average residential connection. Figure II-4 and Figure II-5 show the number of ERUs per connection type and the total number of ERUs. This plan will use the number of ERUs instead of the number of connections.

Figure II-4: ERUs Per Connection Type

Residential	Commercial	Industrial	Institutional
1.0	1.4	1.1	1.7

Figure II-5: Total Number of ERUs Per Connection Type

Year	Residential	Commercial	Industrial	Institutional	Total
2018	730	71	14	33	848
2019	667	90	23	26	806
2020	695	114	14	32	855
2021	742	109	22	51	924
2022	939	142	32	82	1,195
2023	1,033	156	35	90	1,314

Applying the growth rates that were established in Figure II-2 to the number of ERUs, the projected number of ERUs can be found for the end of the planning period.

Figure II-6: Projected Number of ERUs

Calendar Year	Hildale ERUs	Colorado City ERUs	Total ERU
2023	468	847	1,315
2024	515	931	1,446
2025	566	1,024	1,591
2026	623	1,127	1,750
2027	685	1,239	1,925
2028	754	1,363	2,117
2029	844	1,527	2,371
2030	945	1,710	2,656
2031	1,059	1,915	2,974
2032	1,186	2,145	3,331
2033	1,328	2,403	3,731
2034	1,461	2,643	4,104
2035	1,607	2,907	4,514
2036	1,768	3,198	4,966
2037	1,945	3,518	5,462
2038	2,139	3,870	6,009
2039	2,310	4,179	6,489
2040	2,495	4,513	7,008
2041	2,695	4,875	7,569
2042	2,910	5,265	8,175
2043	3,143	5,686	8,829

E. AVERAGE CULINARY WATER USAGE

The State of Utah Public Drinking Water regulations require public water systems to meet requirements based upon usage. These requirements are found in the State Code R309. The code provides a standard usage based upon the types of connections serviced in a system. For a standard residential connection, the code says to assume an average daily usage of 400 gallons per day (gpd) per ERU. Historical usage data was provided by the HCCUD and that usage was compared against the 400 gpd to check if it would adequately represent the usage in the city's system.

The historical usage from the city was from meter data over the past 5 years (2018-2022). To check against the usage indicated in the State's Code R309, the average usage per ERU was calculated from the historical usage. The total average usage over the past 5 years was divided by the average number of ERUs and then converted to gpd/ERU as shown in the calculations below.

$$285,751,000 \text{ gallons} / 926 \text{ ERU} = 308,920 \text{ gallon/ERU/year}$$

$$308,920 \text{ gallon/ERU/year} / 365 \text{ days/year} = 846 \text{ gpd/ERU}$$

Figure II-7 shows a summary of the average usage and historical data that is explained above.

Figure II-7: Hildale & Colorado City Historical Usage Summary

Year	Total Usage (Thousand Gallons)	Number of Connections	Usage per Conn (gpd/conn)	Number of ERUs	Usage per ERU (gpd/ERU)
2018	303,105	863	962	848	979
2019	251,780	763	904	806	856
2020	285,109	799	978	855	914
2021	279,736	855	896	924	829
2022	309,026	1,113	761	1,195	708
5-Year Avg:	285,751	879	900	925	846

The 846 gpd/ERU average usage calculated from the city's historical usage is significantly higher than the usage that is indicated for use in the state code. This is because the average household size in the communities of Hildale City and Colorado City is larger than the average household size in the rest of the state. Because of the larger usage per ERU, this plan will determine usage demand based on the historical usage instead of the numbers from the state code. This method will result in a more realistic analysis and is the more conservative of the two methods.

The calculations in this report will be based on the historical average usage of **846 gpd/ERU** (0.59 gpm/ERU). It is recommended that future improvements be sized based on this average usage.

F. PEAK DAY DEMAND CULINARY WATER USAGE

Peak Day Demand (PDD) is defined by the Utah Administrative Code as the “anticipated water demand on the day of the highest water consumption”. The state code uses 800 gpd/ERU for a peak day demand of a standard residential unit which is twice the average day demand. Therefore, it can be assumed that the PDD for this plan is double the 846 gpd/ERU average demand calculated above. Doubling the average usage results in a peak demand of **1,692 gpd/ERU** (1.17 gpm/ERU).

G. PEAK INSTANTANEOUS DEMAND CULINARY WATER USAGE

Peak Instantaneous Demand (PID) can be described as the highest demand at any one instance in the system. This can be determined based on hourly usage if such data is available. Where hourly usage data does not exist, which is the case of this study, the State Code uses the following method to calculate the PID:

Indoor Usage:

$$Q_{peak\ indoor} = 10.8 \times N^{0.64}$$

Where N is the number of connections and Q is the flow in gpm

Outdoor Usage:

$$Q_{peak\ outdoor} = N \times Irr. \text{ Acreage} \times Demand \text{ Factor}$$

Where N is the number of connections, Irr. Acreage is the average area that is irrigated throughout the system and the Demand Factor is based on the zone given in Table 510-7 of R309-510 of the Utah Administrative Code.

This calculation results in a PID of **2,446 gpm** for the year 2024. It's important to note that the formula does not take into account the average household size, only the number of connections. The PID is expected to go down as the average household size decreases.

H. CONSERVATION

This plan assumes a conservation rate of 0.5% per year over the planning period. This conservation factor is used to represent any conservation efforts from the city, existing connections, or new connections. This rate also takes into account the decrease in average household size that the communities are currently experiencing. This conservation results in the following demands at the end of the planning window.

- ADD (2043) = 766 gpd/ERU
- PDD (2043) = 1,531 gpd/ERU

The conservation factor is not used for the PID. As mentioned above, the PID is the highest demand on the system at any given moment. Conservation efforts do not have a major impact on the amount of water that could be used at any given moment.

III. WATER SOURCE CAPACITY ANALYSIS

A. EXISTING WATER SOURCE

To analyze source capacity, all available culinary water sources must first be identified. These sources are listed in Figure III-1. The flow capacity numbers were acquired from the HCCUD.

Figure III-1: Hildale and Colorado City Existing Water Sources

Name/#	Flow (CFS)	Flow (gpm)
Wells		
4	0.265	119
8	0.134	60
10	0.189	85
11	0.178	80
17*	0.223	100
19	0.223	100
21	0.446	200
22	0.223	100
24	0.178	80
Academy	0.512	230
Power Plant**	0.000	0
Subtotal	2.571	1154
Springs		
Jans Canyon	0.036	16
Maxwell Canyon	0.143	64
Subtotal	0.178	80
Total Source	2.750	1234

*Well 17 is currently being refurbished and is anticipated to produce 100 gpm once it is finished.

**Power Plant Well can produce 244 gpm but is currently not plumbed to the treatment plant so it is unavailable and not counted as a source.

Listed spring flows are relatively constant. These springs were developed from a horizontal bore into the Navajo sandstone formation. The springs are currently used for Maxwell Park and a fill station. With the springs being used for these non-culinary uses the culinary system does not realize the full 80 gpm associated with the springs. These uses are unmetered, so it is not known what percentage of the spring water goes into the culinary water system.

B. EXISTING REQUIRED WATER SOURCE CAPACITY

The Utah State Code R309-510-7 states that a water system's source needs to meet "the anticipated water demands on the day of the highest water consumption which is the Peak Day Demand". The PDD was determined Section II.F as 1,692 gpd/ERU. The source capacity demand for the water system was calculated by multiplying the PDD from Section II.F by the total number of ERUs existing in the system. The results of the analysis are presented in gallons per minute. The results of this analysis are shown in Figure III-2 and the calculation is shown in Appendix B.

Figure III-2: Required Source Capacity (Existing Conditions)

Total Required Source Capacity	1,700 gpm
Total Existing Source Available	1,234 gpm
Existing Source Capacity Deficit	-466 gpm

C. PROJECTED REQUIRED WATER SOURCE CAPACITY

The projected culinary water source capacity required at the end of the planning period is determined from the same factors explained in Section III.B, but the projected number of ERUs is inserted into the calculations instead of the number of existing ERUs. The results of the analysis are shown below in Figure III-3, Figure III-4, and Figure III-5.

Figure III-3: Required Source Capacity (5-year Planning Period)

Total Required Source Capacity	2,440 gpm
Total Existing Source Available	1,234 gpm
Existing Source Capacity Deficit	-1,206 gpm

Figure III-4: Required Source Capacity (10-Year Planning Period)

Total Required Source Capacity	4,190 gpm
Total Existing Source Available	1,234 gpm
Existing Source Capacity Deficit	-2,956 gpm

Figure III-5: Required Source Capacity (20-Year Planning Period)

Total Required Source Capacity	9,397 gpm
Total Existing Source Available	1,234 gpm
Existing Source Capacity Deficit	-8,163 gpm

D. RECOMMENDED WATER SOURCE CAPACITY IMPROVEMENTS

The analysis above shows that the existing available source is not sufficient to accommodate a peak day demand. The historical experience has been that during peak summer months with the system running at full capacity, the city is unable to provide enough water. Without being able to provide enough water to meet system demand the water levels in the storage tanks gradually drop during summer months affecting available fire flow and water pressures. This has caused both communities to enact water restrictions during summer months for the last several years.

Significant source availability improvements are needed now as well as in upcoming years. Hildale City and the Town of Colorado City have performed multiple studies over the years looking at different ways to improve the quantity and quality of available source. These studies, as well as this plan, provided several recommended improvements. This plan incorporates the recommendations from these studies. However, these improvements do not provide enough sources to cover the required source capacity in the planning windows.

In order to increase the available source to meet the projected required source capacity, this plan assumes that a significant number of new wells will need to be drilled. In addition to the recommended improvements from previous studies, this plan recommends additional well fields to be installed at the 0–5-year, 6-10-year, and 11-20-year windows. These well fields are included in the recommendations as 6 single projects with one well field for each community in each of the planning windows. The following assumptions were used in calculating the number of needed wells:

- Each well has a flow of 120 gpm, the average flow of all existing wells.
- The required flow for each planning window's well field is equivalent to the source deficit at the end of each planning period.
- The number of wells required was found by taking the total required flow divided by the average flow per well, then multiplied by the respective percentage to split the number of wells between the two states.

It is recommended that a well siting study be performed to identify the best possible locations to drill new wells. Because locations are not specified for these additional wells, the wells are not shown in the recommended improvements map in Appendix D.

1. 1 TO 5 YEAR IMPROVEMENTS

- Treatment Plant Wells – The quickest available option to help increase source capacity is to drill two additional wells on the Arizona side of the system, one shallow well and one deep well. This portion of Arizona is an open basin and does not require obtaining water rights to drill and use a well. The city is currently working on a study to evaluate the locations of these two wells. The preliminary idea is to drill the wells near the treatment plant. Based on the output of existing wells, it is anticipated that these wells will produce roughly 80 gpm for the shallow well and 120 gpm for the deep well. The well study will help refine these estimated flows.
- 5-Year Arizona Well Field – It is anticipated that this project will comprise of 7 wells producing the needed total of 840 gpm.
- 5-Year Utah Well Field – It is anticipated that this project will comprise of 7 wells producing the needed total of 840 gpm and will require corresponding water rights.

2. 6 TO 10 YEAR IMPROVEMENTS

- 10-Year Arizona Well Field - It is anticipated that this project will comprise of 8 wells producing the needed total of 960 gpm.

- 10-Year Utah Well Field - It is anticipated that this project will comprise of 8 wells producing the needed total of 960 gpm and will require corresponding water rights.

3. 11 TO 20 YEAR IMPROVEMENTS

- Trailhead Well 1 – The city is looking at drilling additional wells in the nearby canyons to the northeast. The water from these canyons would be obtained from different geologic formations than their current wells. The hope is that the water quality is similar to the Jans Canyon and Maxwell Canyon springs. Trailhead Well 1 would be located on city owned property near the Squirrel Canyon Trailhead. This well would provide additional source to the city but primarily will act as a test to determine potential quantity and quality of water. It is estimated that this well could produce 175 gpm. These wells are in Utah and will require water rights to drill and use the well. The city currently has water rights that can apply for a water rights transfer to the location of the proposed well.
- Trailhead Well 2- If the Trailhead Well 1 proves to be a successful route for obtaining additional source, it is recommended that the city continue to pursue this source with an additional well on the city owned land next to the Squirrel Canyon Trailhead. This well and all future wells up the canyon will require obtaining additional water rights. This well is also estimated to produce 175 gpm.
- Hildale Groundwater Project Phase I - If the Trailhead Wells are successful at producing good quality water, this plan recommends that additional wells be drilled in the area northeast of Hildale. These wells would be located on Bureau of Land Management (BLM) property and would require environmental studies and going through BLM's process (such as a SF299 application and Plan of Development) for obtaining right-of-way on BLM land. The city has already begun working through this process with the help of the Washington County Water Conservancy District. Based on the best available information that the city has, it is estimated that this project would produce roughly 350 gpm. The exact location of these wells will be determined through coordination with the city and BLM.
- Hildale Groundwater Project Phase II- This phase involves drilling two additional wells in different location than Phase I but in the same general BLM owned area. Phase II would require the same BLM process and need for additional water rights. This phase is also estimated to produce roughly 350 gpm.
- Hildale Groundwater Project Phase III – This phase is similar to the first two and involves additional wells in the BLM owned area Northeast of Hildale. It is estimated that this phase will produce 175 gpm.
- 20-Year Arizona Well Field - It is anticipated that this project will comprise of 14 wells producing the needed total of 1,680 gpm.
- 20-year Utah Well Field - It is anticipated that this project will comprise of 14 wells producing the needed total of 1,680 gpm and will require corresponding water rights.

These recommended improvements are summarized in Figure III-6. The projects with identified locations are shown in the Recommended Improvements exhibit in Appendix D.

Figure III-6: Summary of Recommended Source Improvements

Name/#	Flow (CFS)	Flow (gpm)	Est. Year Installed
Wells			
Treatment Plan Shallow	0.178	80	2024
Treatment Plant Deep	0.267	120	2024
1-5 Year AZ Well Field	1.872	840	2026
1-5 Year UT Well Field	1.872	840	2026
6-10 Year AZ Well Field	2.139	960	2033
6-10 Year UT Well Field	2.139	960	2033
Trailhead Well 1	0.390	175	2034
Trailhead Well 2	0.390	175	2034
Hildale Groundwater Project PH I	0.780	350	2035
Hildale Groundwater Project PH II	0.780	350	2036
11-20 Year AZ Well Field	3.743	1,680	2039
11-20 Year UT Well Field	3.743	1,680	2039
Hildale Groundwater Project PH III	0.390	175	2040
Total Projected New Source	18.683	8,385	

The estimated schedule for the recommended improvements is based on projected growth and the anticipated project priority. It is recommended that the early projects be pushed forward as much as possible as funding options become available.

E. SOURCE CAPACITY SUMMARY

Figure III-7 and Figure III-8 show the comparison between the available source capacity and the projected required source capacity. The available source capacity in Figure III-8 represents the source capacity available with the implementation of the recommended improvements including the various new wells required in each planning window.

Figure III-7: Projected Source Capacity with Existing Conditions

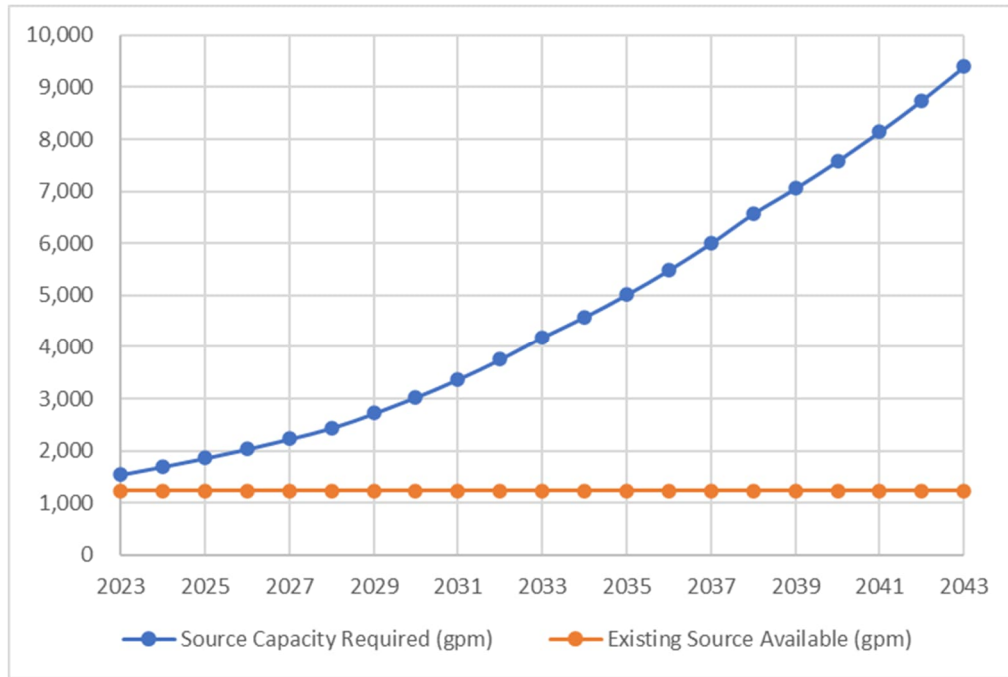
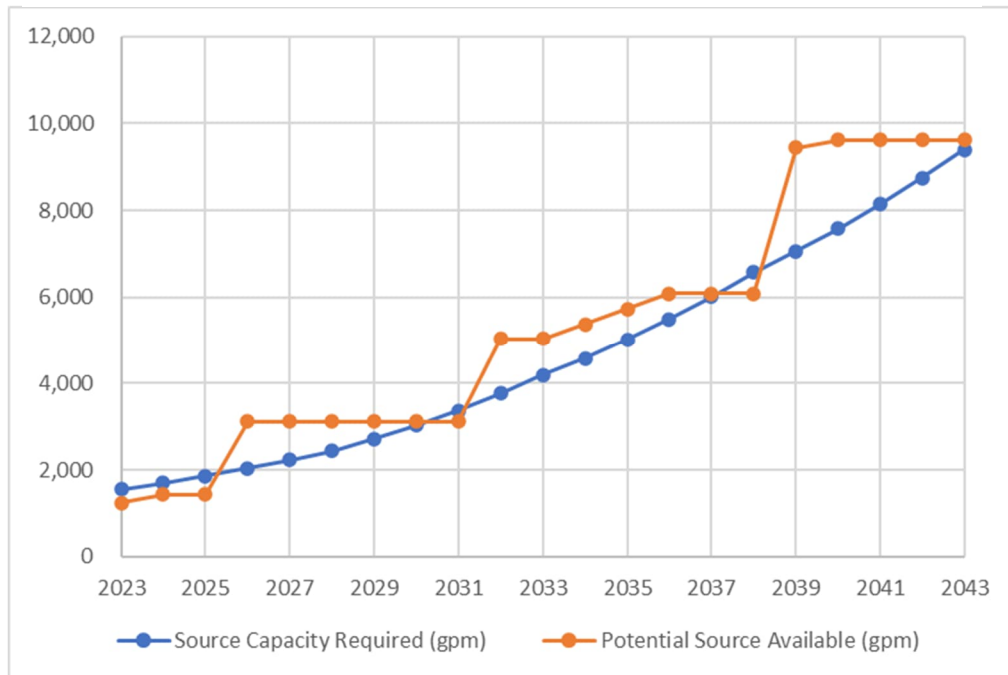


Figure III-8: Projected Source Capacity with Recommended Improvements



IV. WATER STORAGE CAPACITY ANALYSIS

Water storage capacity requirements are found in the State of Utah Public Drinking Water Regulations, R309-510. These regulations require storage for the community's culinary water system to meet one full day's average use requirement for all connections in the community in addition to fire flows for a minimum of two hours.

A. EXISTING WATER STORAGE CAPACITY

There are currently four existing water storage tanks. These tanks are identified in Figure IV-1 below. The Saddle Tank is higher than the other three, and it receives water from the springs. The outlet to the Saddle Tank is near the top of the tank allowing unpressurized outflow. In an emergency, there is a valve that can be opened to utilize the storage in the tank. The other three tanks all have the same high-water elevation and receive water from the wells through the treatment plant.

Figure IV-1: Storage Capacity Summary

Existing Tank	Available Storage (gal)
Saddle Tank	60,000
800,000 Gallon Tank	800,000
600,000 Gallon Tank	600,000
Elm Street Tank	1,000,000
Total Existing Storage Capacity	2,460,000

B. EXISTING REQUIRED WATER STORAGE CAPACITY

As shown in Section II-E, average water usage per ERU also known as the Average Day Demand (ADD) in the water system is 846 gpd/ERU. In general, fire flow requirements are set by the local Fire Authority or are based on building size and type of construction. This plan uses the same minimum fire flow as the previous plans of 1,500 gpm.

The required storage capacity was calculated by multiplying the ADD by the total number of ERUs currently existing in the system and adding the required fire flow of 1,500 gpm for 2 hours. When compared with the system's total storage capacity summarized above, the calculation shows that the city has surplus total storage capacity under current conditions. The results of this analysis are shown in Figure IV-2.

Figure IV-2: Required Storage Capacity (Existing Conditions)

Total Required Storage Capacity	1,404,162 gal
Total Existing Storage Available	2,460,000 gal
Existing Storage Capacity Surplus	1,055,838 gal

C. PROJECTED REQUIRED WATER STORAGE CAPACITY

The projected culinary water storage capacity required at the end of the planning period is determined from the same factors explained in Section IV.B, but the projected number of ERUs is inserted into the calculations instead of the number of existing ERUs. The results of the analysis are shown below in Figure IV-4 and Figure IV-5.

Figure IV-3: Required Storage Capacity (5-Year Planning Window)

Total Required Storage Capacity	1,756,821 gal
Total Existing Storage Available	2,460,000 gal
Existing Storage Capacity Surplus	703,179 gal

Figure IV-4: Required Storage Capacity (10-Year Planning Window)

Total Required Storage Capacity	3,196,811 gal
Total Existing Storage Available	2,460,000 gal
Existing Storage Capacity Deficit	-736,811 gal

Figure IV-5: Required Storage Capacity (20-Year Planning Window)

Total Required Storage Capacity	6,945,872 gal
Total Existing Storage Available	2,460,000 gal
Existing Storage Capacity Deficit	-4,485,872 gal

The current storage capacity is not able to provide enough water for the 10- and 20-year windows. Therefore, improvements will be required in the future.

D. STORAGE CAPACITY CHALLENGES

The storage capacity analysis results show that the city has adequate storage for their current needs. However, with the growth the city is expecting, the required storage will surpass the currently available storage capacity. In addition, there are still some concerns and shortcomings with the existing storage facilities.

- During summer months water operators have expressed concerns that because they are barely able to meet system demands with the wells during the day, and are not able to keep the tanks full. Therefore, the system does not have the full available storage shown in the calculation above.
- The water system consists of a single pressure zone. There are multiple areas around the system within each of the community's limits that are at an elevation higher than the existing tanks can serve and still meet pressure requirements.

E. RECOMMENDED WATER STORAGE CAPACITY IMPROVEMENTS

Improvements need to be made to provide storage for the projected growth. An analysis was done to determine the location of the ERUs at the end of the planning period based on the available information regarding upcoming development mentioned in Section II.B. The system was divided into six regions and the total projected ERUs were placed in their corresponding region. This resulted in the following total projected ERUs per region:

- Northeast: 251 ERUs
- Northwest: 5,305 ERUs
- Central East: 376 ERUs
- Central West: 345 ERUs
- Southeast: 1,630 ERUs
- Southwest: 327 ERUs

The results of this analysis was used to determine the location and size of the recommended storage improvements. Using the minimum sizing requirement of 846 gpd/ERU a storage requirement was calculated for each region. This results in the following approximate storage required for each region:

- Northeast: 215,000 Gallons
- Northwest: 4,500,000 Gallons
- Central East: 320,000 Gallons
- Central West: 300,000 Gallons
- Southeast: 1,400,000 Gallons
- Southwest: 280,000 Gallons

The areas that require the most storage is the Northwest and Southeast. The existing tanks are able to provide the storage required for the other four regions. To reach the required storage the system needs storage in the following locations:

- Northwest: 4,000,000 Gallons
- Southeast: 500,000 Gallons

This additional 4.5 million gallons of storage will reach the states minimum sizing requirements. To provide emergency storage this plan also recommends an additional 1 million gallons of storage. This plan recommends 4 different storage projects be installed within the planning period to provide this additional storage. The recommended projects are as follows:

1. 1 TO 5 YEAR IMPROVEMENTS

- Sandhill Tank 1 – This tank would be constructed above the Elm Street tank to create a higher-pressure zone that would cover the area north of Utah Avenue and east of the highway. This project would include a booster pump to get water to the tank and valving to create the new pressure zone. It is recommended this tank be at least a 2 million gallons.

2. 6 TO 10 YEAR IMPROVEMENTS

- There are no recommended improvements for this planning period.

3. 11 TO 20 YEAR IMPROVEMENTS

- **Trailhead Tank** - This tank would be installed on the same site as the two wells recommended in Section III-D in the area Squirrel Canyon. This tank would serve two purposes. First, it would collect the water from the proposed Trailhead Wells and the Hildale Groundwater Project wells. The second purpose is to create a higher-pressure zone on the northeast side of Hildale. This pressure zone would serve the existing services and new development up the canyons north of Williams Avenue. This plan recommends the tank capacity to be 500,000 gallons, but the capacity should be reevaluated after the city receives results on how much water can be obtained from Trailhead Well 1.
- **South Concrete Tank** – In the southeast region of Colorado City, additional storage is required to provide storage for the new developments that are anticipated to be built in the area. It is recommended that the tank be 1,000,000 gallons and installed to be at the same elevation as the existing tanks.
- **Sandhill Tank 2** – Recently Hildale City annexed land west of the previous city limits. There are new developments for this area in the preliminary planning stages for this area and it is anticipated that these developments will be started within the planning window. This tank would be used to serve development in this area. This plan uses a recommended storage capacity of 2,000,000 gallons and anticipates that the tank will be located in a similar area and elevation as the Sandhill Tank 1. As these developments progress further along the planning stages it is recommended that the size and location of this tank be reevaluated.

These recommended storage improvements are summarized in Figure IV-5. Appendix D includes an exhibit showing the location of these improvements.

Figure IV-6: Summary of Recommended Storage Improvements

Proposed Tank	Available Storage	Recommended Elev. (ft)	Est. Installation Date
Sandhill Tank 1	2,000,000	5,340	2025
Trailhead Tank	500,000	5,270	2034
South Concrete Tank	1,000,000	5,160	2035
Sandhill 2 Tank	2,000,000	5,340	2038
Total Projected New Storage	5,500,000		

F. STORAGE CAPACITY SUMMARY

Figure IV-7 and Figure IV-8 show the comparison between the available storage capacity and the projected required storage capacity. The available storage capacity in Figure IV-8 represents the storage capacity available with the implementation of the recommended improvements.

Figure IV-7: Projected Storage Capacity with Existing Conditions

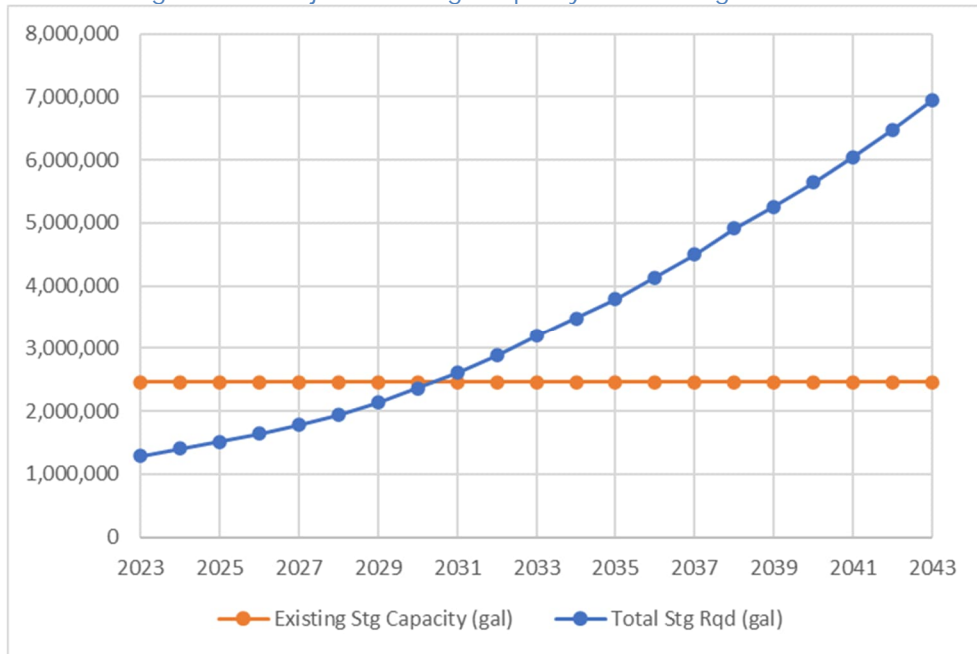
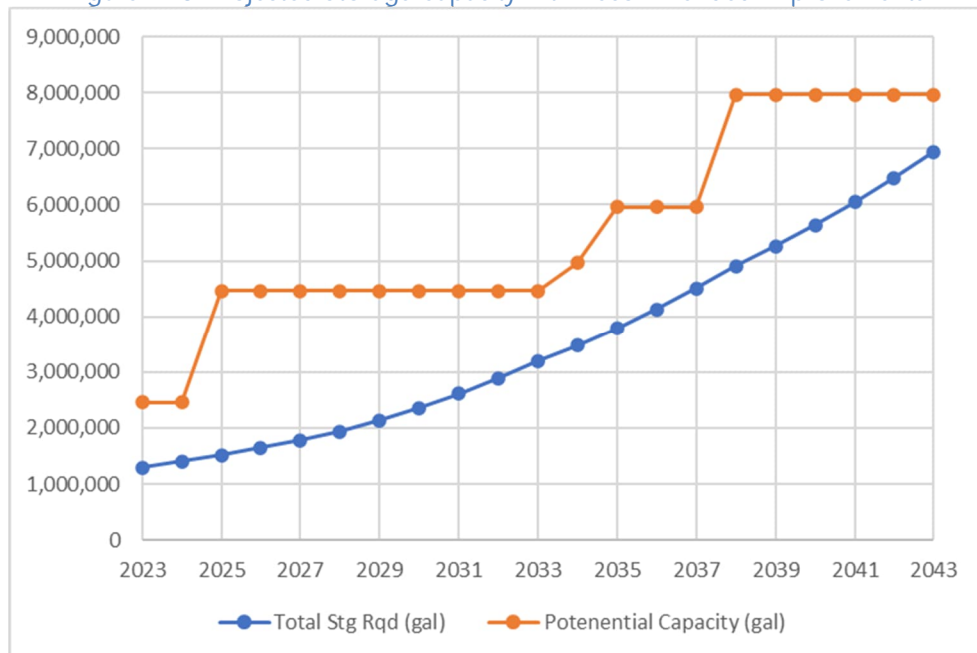


Figure IV-8: Projected Storage Capacity with Recommended Improvements



V. WATER TREATMENT REQUIREMENTS AND ANALYSIS

A. GENERAL REQUIREMENTS

The State of Utah Public Drinking Water Regulations, in accordance with the National Safe Drinking Water Act, have adopted “primary” regulations for the protection of public health and “secondary” regulations related to taste and aesthetics. The regulations recommend that all culinary water sources have provisions for continuous disinfection. Hildale and Colorado City have a culinary water treatment facility to treat the existing wells to meet the State’s requirements.

B. EXISTING TREATMENT FACILITIES

The existing culinary water treatment plant uses a greensand filtration process which includes pretreating the water with potassium permanganate. The plant contains 6 pressure vessels designed to operate in parallel and treat 2,400 gpm. However, based on available data and communicating with system staff, the plant has demonstrated a functional capacity to treat approximately 2,000 gpm. The treatment plant needs to be able to treat more than the PDD so the system doesn’t run out of water. Figure V-1 below shows how the treatment plant capacity compares to the PDD.

Figure V-1: Required Treatment Capacity (Existing Conditions)

Total Required Source Capacity (PDD)	1,700 gpm
Total Existing Treatment Capacity	2,000 gpm
Existing Source Capacity Surplus	300 gpm

C. PROJECTED WATER TREATMENT CAPACITY

As the communities continue to grow, the demands on the system will grow as well. The treatment plants will need to accommodate the increasing PDD. Below is a summary of the projected treatment capacity in relation to future treatment requirements.

Figure V-2: Projected Required Treatment Capacity (5-Year Planning Window)

Total Required Source Capacity (PDD)	2,440 gpm
Total Projected Treatment Capacity	2,000 gpm
Existing Treatment Capacity Deficit	-440 gpm

Figure V-3: Projected Required Treatment Capacity (10-Year Planning Window)

Total Required Source Capacity (PDD)	4,190 gpm
Total Projected Treatment Capacity	2,000 gpm
Existing Treatment Capacity Deficit	-2,190 gpm

Figure V-4: Projected Required Treatment Capacity (20-Year Planning Window)

Total Required Source Capacity (PDD)	9,397 gpm
Total Projected Treatment Capacity	2,000 gpm
Existing Treatment Capacity Deficit	-7,397 gpm

The existing treatment plant will not be able to treat enough water beyond the 5-year planning window. Improvements will need to be made to expand the treatment capacity in the near future.

D. RECOMMENDED WATER TREATMENT FACILITY IMPROVEMENTS

As mentioned before, the treatment plant has a surplus under existing conditions but will need to be improved within the next few years. The following recommendations are made to improve the treatment capacity:

1. 1 TO 5 YEAR IMPROVEMENTS

- Raw Water Transmission Line - The raw water transmission lines which carry water from the wells to the treatment plant should be improved. These lines are old, undersized, and have iron and other mineral deposits adhering to the pipe. It is possible the amount of flow going to the treatment plant is restricted by these deposits. This project is a part of the Mohave County ARPA Water project and it is currently in the design phase. It is recommended that a new 12" transmission line be installed in Richard St. to convey water from the wells south of the treatment plant. It is also recommended that access points be installed that allow water operators to flush and clean out the lines on the new line and on the remaining existing raw water lines.
- Small Treatment Plant – The treatment capacity needs to be increased within the 5-year planning window, so it is recommended that a new treatment plant be constructed. This plant is recommended to treat approximately 1,600 gpm. There is no specific location selected for this plant, however it is recommended that it be built near the Power Plant well so that it can be incorporated into the culinary water system.

2. 6 TO 10 YEAR IMPROVEMENTS

- There are no recommended improvements for this planning period.

3. 11 TO 20 YEAR IMPROVEMENTS

- Additional Treatment Capacity Phase I - With the previous plant implemented, the treatment facilities will again be at a deficit again in the 11-20-year window. An additional 3,000 gpm will need to be added. This can be accomplished by either expanding the previous plant or building an entirely new plant. For planning purposes this report assumes

that a new treatment plant will be constructed. There is no location selected for a new plant, but once a well site study has been completed, it's recommended that the location be central to the additional wells that are constructed.

- **Additional Treatment Capacity Phase II** – In this planning window, an additional 3,000 gpm is necessary to be able to treat enough water for the system. There is no direct recommendation for this, however some options include improving the existing plant, expanding upon the Phase I Improvements, or constructing a new plant. The EOPC in Appendix C shows the cost of constructing a new plant.

This plan only identifies the deficit in treatment capacity and recommends general projects to make up the deficit. It does not include a detailed analysis or evaluation of treatment options or equipment.

E. TREATMENT CAPACITY SUMMARY

Figure V-5 and Figure V-6 show the comparison between the available treatment capacity and the projected required treatment capacity. The available treatment capacity in Figure V-6 represents the treatment capacity available with the implementation of the recommended improvements.

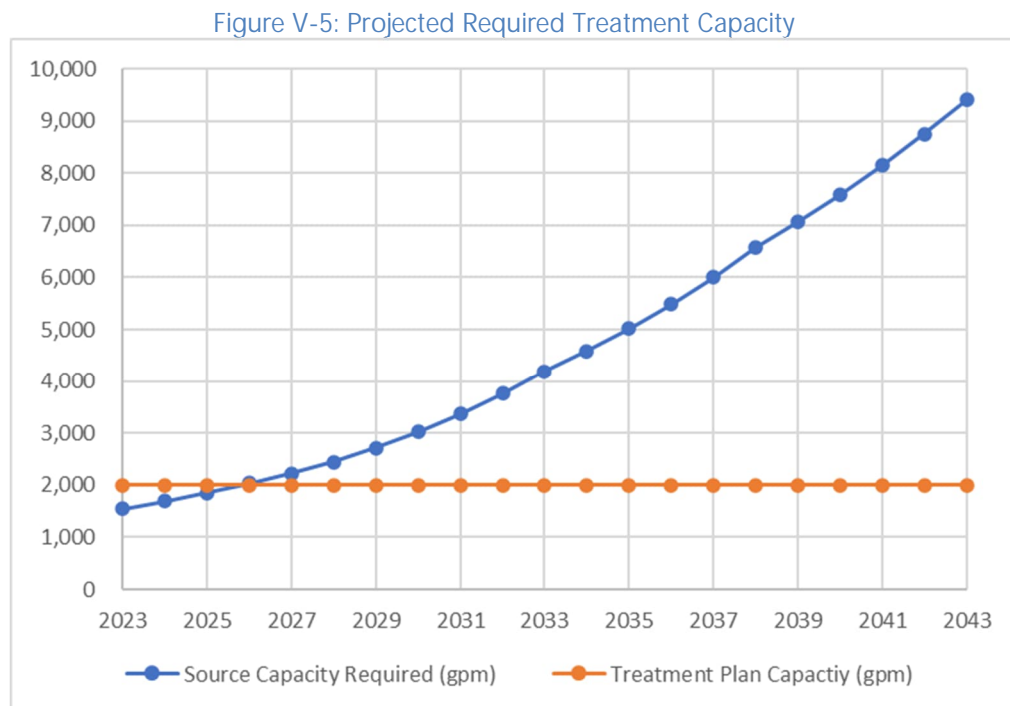
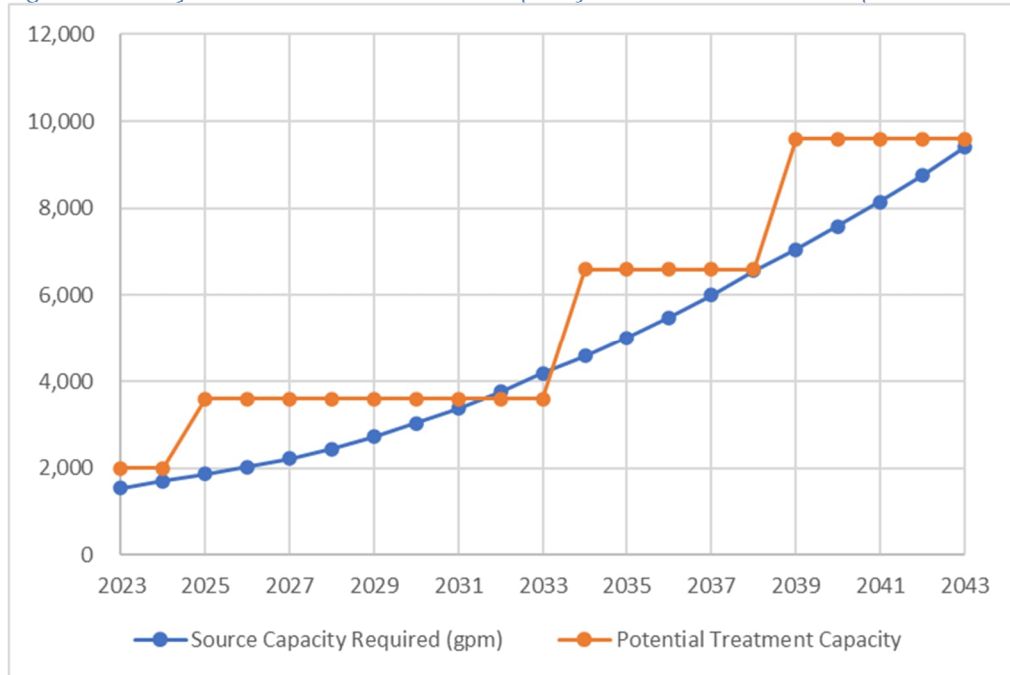


Figure V-6: Projected Available Treatment Capacity with Recommended Improvements



VI. WATER DISTRIBUTION SYSTEM ANALYSIS

The State of Utah Public Water Regulations, R309-105-9, states three pressure conditions which must be met to demonstrate adequate service capacity of a system. These conditions are:

- At least 40 psi must be retained as residual pressure in the distribution system under a Peak Day Demand (PDD).
- At least 30 psi must be retained as residual pressure in the distribution system under Peak Instantaneous Demand (PID)
- At least 20 psi must be retained as residual pressure in the distribution system under PDD plus fire flow conditions.

A. EXISTING DISTRIBUTION SYSTEM ANALYSIS

The existing PDD and PID were calculated in Section II. These flows are shown below:

- PDD – 1,692 gpd/ERU = 1,699 gpm with the existing number of ERUs
- PID – 2,446 gpm

As mentioned in Section IV.B, this report uses a fire flow of 1,500 gpm.

The existing Hildale and Colorado City culinary water distribution system has been modeled using the computer program WaterGEMS by Bentley Systems, Inc. For the existing system network there are areas which provide less than the required 40 psi of pressure for PDD, areas that provide less than 30 psi for PID, and areas that do not provide adequate fire flow. For the most part, the deficiencies in each of these requirements fall in the same areas of the system. Exhibits showing the areas of low pressure and fire flow are found in Appendix D. Below is a summary of these areas:

- Northwest Hildale (area between Utah Avenue and the Elm Street tank) – This area suffers from poor fire flow, lack of hydrants, and low pressure during PDD and PID. Fire flows in this area have been modeled as low as 253 gpm during PDD. This is largely the result of proximity to the elevation of the Elm St. tank. Pressures during PDD and PID are as low as 17 psi and 14 psi respectively.
- Northeast Hildale (area north of Jessop Avenue and west of Carlin Street) – This area suffers from poor fire flow, lack of hydrants, and low pressure during PDD and PID. Fire flows in this area have been modeled as low as 175 gpm during PDD. This is largely the result of proximity in elevation to the tanks, smaller line sizes, and lack of looping. Pressure during PDD and PID are as low as 27 psi and 21 psi respectively.
- East Colorado City (Between Edson Avenue and E Johnson Avenue) – This area suffers from poor fire flow and slightly low pressures during PDD and PID scenarios. Fire Flows

have been modeled as low as 544 gpm during PDD. This is largely due to the elevation of the area being too close to the same elevation of the existing tanks.

B. PROJECTED DISTRIBUTION SYSTEM ANALYSIS

The projected distribution system analysis is performed using the same assumptions as in the existing system analysis, except that the projected number of connections for the 20-year planning window is inserted into the calculations. The results of this calculation for both PDD and PID are shown below:

- PDD – 1,531 gpd/ERU = 9,387 gpm with the projected number of ERUs
- PID – 11,412 gpm

The same water model that was used to examine the existing distribution system was used to analyze the scenarios of the projected system at the end of the 20-year window. With the relatively high projected growth rate, according to the model, the entire system does not meet the requirements of R309-105-9. The recommended improvements in Section V.D and Section VI.D and are intended to keep the system in compliance with the state code at the end of the 20-year planning window.

C. FIRE HYDRANTS

State regulations require all new fire hydrants to be served from 8" diameter or larger pipelines unless it can be proven through the use of modeling that 6" lines are sufficient. There are several existing hydrants in the system that are on 6" or smaller pipes.

Utah state requirements also state that hydrants must be placed so no structure is further than 250 feet away from a hydrant. This means that generally, hydrants should be placed no more than 500 feet away from each other. There are numerous locations throughout the system where additional fire hydrants are needed to meet the required spacing.

D. RECOMMENDED DISTRIBUTION SYSTEM IMPROVEMENTS

From the system deficiencies observed in the analysis, this plan recommends the following improvements:

1. 1 TO 5 YEAR IMPROVEMENTS

- Fire Hydrants – Install additional fire hydrants to meet the minimum required spacing. In placing these new hydrants, some smaller lines will need to be replaced with 8" lines to meet the requirements mentioned above. It is recommended that this project replace all

undersized lines which are not already included in the other improvements. This project would help bring the system into compliance with fire flow requirements.

- Upper Pressure Zone Improvements – Install a new 8" diameter water main on Jessop Avenue and Newell Avenue from Juniper Street to Redwood Street. This will provide looping and help create the pressure zone that will be implemented with the new Sandhill Tank 1. This project involves disconnecting 6 North/South lines in Utah Avenue so all flow going south will flow through one PRV connecting the two pressure zones.
- Northwest Hildale Transmission Line – As mentioned in previous sections, Hildale City has recently annexed new land west of the current city boundary. Currently there is no water infrastructure in place to provide water to this area. A transmission line would need to be installed from the Sandhill 1 tank west to the new development areas. This plan assumes that this would need to be a 16" line from Sandhill Tank 1 to the edge of the new annexation area.
- Canyon Street Line – Install a new 8" water main in Canyon Street from Memorial Street to Newell Avenue. This would provide looping to the northeast Hildale area and help mitigate some of the low pressures and low fire flows. This water main would also act as a trunkline for delivering water from the new wells in the Hildale Groundwater Project and the Trailhead Wells.

2. 6 TO 10 YEAR IMPROVEMENTS

- Hildale Street Line – Install a new 8" water main along Hildale Street from Academy Avenue to Cooke Avenue. This will provide looping to northern Colorado City and provide an additional line crossing the river.

3. 11 TO 20 YEAR IMPROVEMENTS

- Southwest Hildale Transmission Line – As the area west of Hildale City is developed, an additional transmission line should be constructed to provide additional looping to the system. The size and exact location of this line will depend on the timing and location of new development in the west side of the city. Depending on how the area develops, it is possible that this project will be installed in the earlier planning window instead of the Northwest Hildale Transmission Line.
- Transmission Line to Airport – Install a new 12" line extending south on Township Avenue towards the airport. The purpose of this line is to provide water service to potential commercial and industrial developments.

These recommended improvements are summarized in Figure VI-1. Appendix D includes an exhibit showing the location of these improvements.

Figure VI-1: Summary of Recommended Distribution Improvements

Proposed Improvement	Est. Installation Date
Fire Hydrant Project	2024
Upper Pressure Zone Improvements	2026
Canyon Street Line	2028
Northwest Hildale Transmission Line	2028
Hildale Street Line	2030
Southwest Hildale Transmission Line	2040
Transmission Line to Airport	2042

VII. WATER AVAILABILITY

A major concern for the community is long term availability of their water source. With the ongoing drought, this is a concern for most, if not all, communities in the surrounding counties. The following are ideas that the city could investigate to potentially lengthen the availability of water in the area. These ideas are not recommended improvements but starting points for future conversations.

A. WATER CONSERVATION PROGRAM

Implementing a water conservation program is a good way to reduce current water usage and prolong water availability as well as defer the need for some water infrastructure improvements. A conservation program is cheap in that it does not require any construction of infrastructure prior to implementation. Below is a potential list of items that could be included in such a program:

- Provide education on how much water local grasses and trees require and encourage residents to limit outdoor watering to not exceed what is needed.
- Perform a “water audit” on city owned irrigation to determine if outdoor water use could be reduced on city owned property.
- Look into capturing rainwater for outdoor watering. (This would require some investigation on how much water Utah and Arizona will allow to be captured and used)
- Provide incentives for residents to change their existing landscaping to something which requires less water such as Xeriscape.
- Add water conservation language in the Building and Zoning Codes

B. CONSTRUCTION WATER

Currently construction water is typically obtained from fire hydrants. This means that the construction in town typically uses culinary water for construction. This may not be a major usage of the culinary water system, but there may be some inexpensive options to provide non culinary grade water for use as construction water.

The Power Plant Well is currently unavailable for use in the culinary water system. This well could be set up with a connection to provide non culinary grade construction water. While this option does alleviate some strain from the culinary water system, it is still using the same aquifer (source) that the culinary water system is using.

C. RECYCLE BACKWASH WATER AT TREATMENT PLANT

Part of the process of the existing treatment plant includes backwashing the filters occasionally with clean, culinary grade water. Currently the backwash water is sent into the sewer system which is common in many similar plants. It is possible to capture the backwash water, reuse a portion of it, and send it back through the plant. This option saves a minimal amount of water, backwashes do not happen frequently, and they do not use a large amount of water per backwash. However,

this adjustment would save water and should be considered when making future improvements to the treatment facility.

D. SECONDARY WATER SYSTEM

Implementing a secondary water system would be a major benefit to the culinary water system. A secondary system in Hildale and Colorado City would reduce the culinary water use by roughly 40%. This reduction would greatly help with the deficiencies discussed in previous sections of this plan. However, constructing a new water system from the ground up is not cheap, and the added irrigation user rate needed to implement a new system would increase most customer water bills. It is possible to install a complete system in phases or install a small system just for parks or specific high outdoor use areas.

E. WASTEWATER REUSE

Treating wastewater for reuse is an option that would provide more water which is not coming from the same sources as the culinary water system. Treating wastewater sufficiently to be used for human consumption is very expensive and not likely practical for Hildale and Colorado City. However, reuse could be used for things such as construction water or irrigation for parks and agriculture that is not for human consumption. Treatment to this level is cheaper and may provide a cost-effective alternative for the city.

F. INSTALLING AUTOMATIC METERING

Installing instant read smart meters in the system would provide multiple benefits such as providing accurate usage data, acting as a leak detection system, and educating water users on their usage to encourage conservation. Smart metering can record usage to provide actual data for finding the ADD, PDD, and PID.

VIII. SUMMARY OF RECOMMENDED IMPROVEMENTS

A. PRIORITY OF IMPROVEMENTS

Figure VIII-1 shows a summary of the proposed improvements with the estimated cost for the project in today's dollars, the estimated year the improvements will be installed and the estimated cost of the project accounting for inflation. This plan uses an assumed inflation rate of 3%.

Figure VIII-1: Summary of Recommended Improvements

Project	Cost Estimate	Est Year of Installation	Cost Estimate With Inflation
Source Improvements			
Treatment Plant Wells	\$ 1,288,700	2024	\$ 1,327,400
5 Year Arizona Well Field	\$ 3,333,400	2024-2028	\$ 3,642,500
5 Year Utah Well Field	\$ 6,923,700	2024-2028	\$ 7,565,700
10 Year Arizona Well Field	\$ 3,809,600	2029-2033	\$ 4,970,700
10 Year Utah Well Field	\$ 7,912,800	2029-2033	\$ 10,324,400
Trailhead Well 1	\$ 2,445,300	2034	\$ 3,384,900
Trailhead Well 2	\$ 1,713,100	2034	\$ 2,371,300
Hildale Groundwater Project PH I	\$ 3,793,500	2035	\$ 5,408,600
Hildale Groundwater Project PH II	\$ 4,220,100	2036	\$ 6,197,400
Hildale Groundwater Project PH III	\$ 3,105,400	2040	\$ 5,132,800
20 Year Arizona Well Field	\$ 6,666,800	2033-2042	\$ 11,690,300
20 Year Utah Well Field	\$ 13,847,400	2033-2042	\$ 24,281,500
Source Subtotal	\$ 59,059,800		\$ 86,297,500
Storage Improvements			
Sandhill Tank 1	\$ 5,938,100	2025	\$ 6,299,700
Trailhead Tank	\$ 2,875,500	2034	\$ 3,980,400
South Concrete Tank	\$ 4,432,500	2035	\$ 6,319,700
Sandhill Tank 2	\$ 6,475,100	2038	\$ 10,088,000
Storage Subtotal	\$ 19,721,200		\$ 26,687,800
Treatment Improvements			
Raw Water Transmission Line	\$ 1,092,500	2024	\$ 1,125,300
Small Treatment Plant (1,600 gpm)	\$ 5,904,800	2025	\$ 6,264,400
Additional Treatment Capacity PH1	\$ 8,739,000	2034	\$ 12,096,800
Additional Treatment Capacity PH2	\$ 10,312,200	2039	\$ 16,548,100
Treatment Subtotal	\$ 19,051,200		\$ 36,034,600
Distribution Improvements			
Fire Hydrant Project	\$ 1,733,500	2024	\$ 1,785,500
Upper Pressure Zone Improvements	\$ 846,500	2026	\$ 925,000
Canyon St. Line	\$ 388,900	2028	\$ 450,800
Northwest Hildale Transmission Line	\$ 1,977,400	2028	\$ 2,292,300
Hildale St. Line	\$ 454,390	2030	\$ 558,800
Southwest Hildale Transmission Line	\$ 903,800	2040	\$ 1,493,800
Transmission Line to Airport	\$ 2,039,350	2042	\$ 3,576,000
Distribution Subtotal	\$ 8,343,840		\$ 11,082,200
Grand Total	\$ 106,176,040.00		\$ 160,102,100.00

The detailed cost estimate for each project is located in Appendix C.

IX. POSSIBLE FINANCING PLAN

The purpose of this possible finance plan is to show what a funding plan may look like to pay for the projects recommended for 2024. The city may also choose to complete the improvements in separate smaller projects. The projects are assumed to be paid with loan and grant money. It should be noted that agencies may require some amount of self-participation in order to provide funding. This plan assumes a 10% self-participation match.

Figure IX-1 outlines a possible financing plan from the Utah Division of Drinking Water (DDW). This plan assumes 20% of the funding from DDW will be grant and 70% will be loan with the remaining 10% as self-participation. The loan is assumed to be at a 4% interest rate and payback term of 20 years. It is possible a lower interest rate or higher portion of grants will be available. It is recommended that as the city prepares to start this project they contact DDW and other funding agencies such as the Water Infrastructure Finance Authority of Arizona, US Department of Agriculture - Rural Development, or the Utah Community Impact Board to determine what funding is available and where they can get the best financing terms.

The possible financing plan shown in Figure IX-1 results in an annual loan payment of \$224,525. This annual payment along with other O&M expenses for the water system, would require an average monthly charge for culinary water user rates to be \$51.35 per ERU.

The city is looking into adjusting their culinary water impact fees. A majority of the recommended improvements in this plan are fully or partially Impact Fee eligible. Collecting impact fees would help to fund the recommended improvements.

Figure IX-1: Possible Financing plan

HILDALE CITY/TOWN OF COLORADO CITY					
POSSIBLE FINANCING PLAN 2024 projects					
Total Project Cost (Construction + Professional Services):					\$ 4,238,200
Proposed Funding:	% of Proj.	Rate	Term	Principal	Est. Payment
Self Participation	10%			\$ 423,820.00	
DDW Grant	20%			\$ 762,876.00	
DDW Loan	70%	4.00%	20	\$ 3,051,504.00	\$224,535.01
TOTAL PROJECT ANNUAL PAYMENT (2023):					\$224,535.00
O&M EXPENSES: (First Year of New Debt Service Payment)					
Office Expenses and Travel				\$	38,867.63
Repairs and Maintenance				\$	375,825.72
Utilities				\$	189,954.97
Legal and Professional Fees				\$	68,482.00
Renewal and Replacement Fund					\$0
Interest Income				\$	(5,962.58)
Subtotal Expenses:					\$667,168
EXISTING DEBT SERVICE					
Existing Debt Service					\$0
Subtotal Existing Annual Debt Service:					\$0
GRAND TOTAL EXPENSES:					\$891,703
ANNUAL INCOME					
Impact Fees Expended for 2023 Projects				\$	-
Total Number Of <u>ERU</u>					1,447
Average Monthly Water User Rate/ERU					\$51.35
Charges for Services, Fees, etc.					\$891,703
GRAND TOTAL INCOME:					\$891,703

X. IMPACT FEE ANALYSIS

This plan constitutes an Impact Fee Facilities Plan (IFFP) and Impact Fee Analysis (IFA) for Hildale City and Infrastructure Improvements Plan for the Town of Colorado City. The Utah Administrative Code allows a community to charge an impact fee to provide funding for the projects required by this growth. The Arizona Administrative Code allows a community to charge a development fee to provide funding for the projects required by this growth. This plan was developed to have the fee comply with both the Utah Administrative Code and the Arizona Revised Statutes and uses the term "impact fee" to refer to development fee in Colorado City as well as the impact fees in Hildale City.

The plan identifies the existing demands on the system as well as future demands which will be placed on the system due to growth. The total cost that is eligible for the impact fee assessment is equal to the portion of a planned project in the planning window that is attributed or caused by growth. The combined costs of these projects are divided by the projected number of new ERUs that will be added to the system. Impact fees can also cover debt service that is incurred by projects that provide excess capacity to be used for growth.

While this master plan uses a planning window of 20 years, the IFFP & IFA use a planning window of 10 years encompassing the start of 2024 to the end of 2033. This shorter window is based on regulations on impact fee collection and use. Impact fees must be encumbered within six years of their receipt according to Utah State Impact Fee law and within 10 years of receipt according to Arizona State Development Fee law. This plan accounts for all incoming fees to be encumbered for eligible projects and debts in the continuous six-year window to satisfy the more stringent law.

A. EXISTING IMPACT FEES

Currently, neither community charges a culinary water Impact Fee.

B. LEVEL OF SERVICE

Impact Fee laws prohibit the use of Impact Fees to increase the level of service beyond that which is currently provided. This requires a determination of the existing level of service upon which to base future improvements. The existing level of service provided by the culinary water system, and which was used to evaluate the system in previous sections of the report, is the Utah State Code minimum sizing requirements.

C. PROPORTIONATE SHARE ANALYSIS

Impact fee laws in Utah and Arizona require that only that portion of the facility, whether existing, new, or future, that is required for growth may be included in the impact fee calculations. A proportionate share analysis must be made of all the facilities to determine a reasonable and logical ratio of cost for each improvement.

1. WATER SOURCE

The analysis in Section III shows that the existing system has a source capacity deficit of 465 gpm. Because this is an existing deficiency, the recommended improvements that fix this deficiency are not impact fee eligible. It is anticipated that the deep and shallow treatment plan wells are projected to provide 200 gpm which is less than the existing deficit of 465 gpm and therefore are considered non-impact fee eligible. The 5-Year well field for Utah and Arizona combined are projected to provide 1,680 gpm. This will bring the capacity above the 465 deficit and provide an additional 1,435 gpm. The additional 1,435 gpm above the existing capacity deficit is additional source capacity that is needed for the projected growth and therefore impact fee eligible. This results in both the 1-5 Year Arizona Well Field and 1-5 Year Utah Well Field projects being 84.3% impact fee eligible.

All of the other wells projects within the 10 year planning period provide additional source that is needed for the projected growth and are considered 100% impact fee eligible. This includes the following projects:

- 10 Year Arizona Well Field
- 10 Year Utah Well Field

2. WATER STORAGE

Only one water storage project is in the 10-year planning window, Sandhill Tank 1. The storage that is provided by this tank is needed for the projected growth. Therefore, the tank is considered 100% impact fee eligible.

3. WATER TREATMENT

The Raw Water Transmission Line is an improvement recommended in the water treatment section. This project helps with the operation and maintenance of the raw water line to the existing treatment plant and does not provide additional treatment capacity. Because this project does not provide any additional treatment capacity needed for the projected growth it is not considered impact fee eligible.

This plan has one recommended improvement to water treatment that will add to the treatment capacity. The Small Treatment Plant provides additional treatment capacity that is needed for the projected growth and is considered 100% impact fee eligible.

4. WATER DISTRIBUTION

A majority of the proposed water distribution projects in the 10-year planning period serve to improve the existing level of service for the system users or provide currently needed fire flows. These projects are not considered impact fee eligible. However, there are a few projects that would extend the service area to allow for growth in areas that currently do not have access to the water system and therefore are unable to be developed. These projects include the following:

- Upper Pressure Zone Improvements. – This project provides increased pressures for the existing units located north of Utah Avenue. This is an area that has historically had issues with low pressures and will fix an existing deficiency. However, this project also allows for the system to extend further north and allow for growth and development in new areas. Because this project fixes existing deficiencies and allows for the extension of the system it is considered 50% impact fee eligible.
- Northwest Hildale Transmission Line – This project extends the system northwest of Hildale and allows for areas to be developed that currently do not have access to the culinary water system. Because this project provides an area for growth to occur it is considered 100% impact fee eligible.

5. FUTURE PLANNING

It is recommended that the capital facilities plan be updated every five (5) years. Since this plan update falls within the 10-year planning period, it is 100% impact fee eligible.

D. ZONAL IMPACT FEES

For impact fees, Hildale and Colorado City each adopt their own impact fee ordinance for their corresponding communities. With the communities being in different states, they each have different Impact Fee laws that need to be followed for each ordinance. The recommended improvements also do not affect each community equally. Zonal impact fees were established with each community being its own zone.

With the projected growth in the 10-year planning window, it is expected there will be an additional 2,417 ERUs added to the system. Based on information currently available regarding future developments, it is anticipated that more of the additional ERUs will be located in Hildale than in Colorado City. For this reason, it is assumed that 55% of the 2,417 ERUs will be in Hildale, resulting in 1,330 ERUs. The remaining 1,088 additional ERUs, or 45%, will be located in Colorado City.

The Impact Fee Analysis will establish the impact fee eligible cost for each of the eligible projects and that cost will be divided amongst both zones based on the percentage of benefit that project provides to each zone.

E. IMPACT FEE ANALYSIS

The total cost that is eligible for the impact fee assessment is equal to the portion of any planned water improvements project that will be constructed in the next 10 years to accommodate new growth. The combined total cost that is due to new growth is divided by the projected number of new ERUs that will be added to the system.

It is recommended that Hildale City and the Town of Colorado City begin charging impact fees per ERU. Figure X-1 shows the impact fee per meter size for Hildale and Figure X-2 shows the impact fee per meter size for Colorado City. Should a lower impact fee be adopted, the remaining construction cost deficit would need to be funded through other means. Appendix E contains the analysis performed to determine the impact fee.

Figure X-1: Maximum Zonal Impact Fee- Hildale

Meter Size	ERUs	Impact Fee
5/8" & 3/4"	1.00	\$ 12,580.00
1"	1.78	\$ 22,364.44
1 1/2"	4.00	\$ 50,320.00
2"	7.11	\$ 89,457.78
3"	16.00	\$ 201,280.00
4"	28.44	\$ 357,831.11
6"	64.00	\$ 805,120.00

Figure X-2: Maximum Zonal Impact Fee- Colorado City

Meter Size	ERUs	Impact Fee
5/8" & 3/4"	1.00	\$ 11,807.00
1"	1.78	\$ 20,990.22
1 1/2"	4.00	\$ 47,228.00
2"	7.11	\$ 83,960.89
3"	16.00	\$ 188,912.00
4"	28.44	\$ 335,843.56
6"	64.00	\$ 755,648.00

It is important to note that these impact fees are for the improvements summarized in this Plan and do not provide for the city to design and build anything beyond the proposed projects. All new additions to the system will need to be considered in the impact fee calculations. Otherwise, the developer should be required to make the improvements.

F. IMPACT FEE CERTIFICATION

In general, it is beneficial to update this impact fee facilities plan and analysis at least every five years, or more frequently if drastic growth or changes affect the assumptions and data in this plan. It is assumed that this plan will be updated as recommended.

There are items relating to impact fees that Hildale City and the Town of Colorado City must consider when planning for, collecting, and expending impact fees in accordance with Utah Code 11-36a-101 and Arizona Code 9-463.05.

Staff from each community must understand that impact fees can only be expended for a system improvement that is identified in the Impact Fee Facilities Plan and that is for the specific facility type for which the fee was collected. Impact fees must be expended or encumbered for permissible use within six years of their receipt unless Utah Code 11-36a-602(2)(b) applies. Also, impact fees must have proper accounting (track each fee in and out) in accordance with Utah Code 11-36a-601 and Arizona Code 9-463.05.

In accordance with Utah Code 11-36a-306 a certification of impact fee analysis is in Appendix F.

APPENDIX A

Growth Rate Analysis

Population & Growth Rate								
Calendar Year	Est. Growth Rate	Hildale Population	Colorado City Population	Total Population	Hildale Connections	Colorado City Connections	Total Connections	Number of ERUs
2023		3,224	5,358	8,582	435	790	1,224	1,315
2024	10.0%	3,547	5,894	9,440	478	869	1,347	1,446
2025	10.0%	3,901	6,483	10,384	526	956	1,481	1,591
2026	10.0%	4,291	7,132	11,423	578	1,051	1,630	1,750
2027	10.0%	4,720	7,845	12,565	636	1,156	1,792	1,925
2028	10.0%	5,192	8,629	13,822	700	1,272	1,972	2,117
2029	12.0%	5,816	9,665	15,480	784	1,425	2,208	2,371
2030	12.0%	6,513	10,825	17,338	878	1,596	2,473	2,656
2031	12.0%	7,295	12,124	19,419	983	1,787	2,770	2,974
2032	12.0%	8,170	13,578	21,749	1,101	2,001	3,103	3,331
2033	12.0%	9,151	15,208	24,359	1,233	2,242	3,475	3,731
2034	10.0%	10,066	16,729	26,794	1,357	2,466	3,822	4,104
2035	10.0%	11,073	18,401	29,474	1,492	2,712	4,205	4,514
2036	10.0%	12,180	20,241	32,421	1,641	2,984	4,625	4,966
2037	10.0%	13,398	22,266	35,663	1,806	3,282	5,088	5,462
2038	10.0%	14,738	24,492	39,230	1,986	3,610	5,596	6,009
2039	8.0%	15,917	26,452	42,368	2,145	3,899	6,044	6,489
2040	8.0%	17,190	28,568	45,758	2,317	4,211	6,528	7,008
2041	8.0%	18,565	30,853	49,418	2,502	4,548	7,050	7,569
2042	8.0%	20,050	33,321	53,372	2,702	4,912	7,614	8,175
2043	8.0%	21,654	35,987	57,641	2,918	5,305	8,223	8,829

APPENDIX B

Water Use Analysis

Year	Total Usage (Thousand Gallons)	Number of Connections	Usage per Conn (gpd/conn)	Number of ERUs	Usage per ERU (gpd/ERU)
2018	303,105	863	962	848	979
2019	251,780	763	904	806	856
2020	285,109	799	978	855	914
2021	279,736	855	896	924	829
2022	309,026	1,113	761	1,195	708
5-Year Avg:	285,751	879	900	925	846
This Master Plan will use a historic daily usage of 846 gpd/ERU					

Peak Instantaneous Demand Calculations (State)			
Indoor Peak Instantaneous Demand			
Q=	$10.8 \times N^{.64}$		N= No. of ERU
2024	Q=	1,138	gpm
	Q=	1,132	gpd/ERU
Outdoor Peak Instantaneous Demand			
Irrigation Zone 5 =		9.04	gpm/Irrigated Acre
Irrigated Acres /ERU		0.1	Irrigated Acres/ERU
Q=	Irr Acres/ERU X Irr Zone FactorX No. ERU		
Example:			
2023	Q=	1,308	gpm

Current & Projected Required Source Capacity							
Year	# of ERU	Percent Reduction In Usage Per ERU	Peak Day Usage (gpd/ERU)	Source Capacity Required (gpm)	Existing Source Available (gpm)	Treatment Plan Capacity (gpm)	Source Capacity Surplus/Deficit (gpm)
2023	1,315	0.0%	1,692	1,545	1,234	2,000	(311)
2024	1,447	0.0%	1,692	1,700	1,234	2,000	(466)
2025	1,592	0.5%	1,684	1,861	1,234	2,000	(627)
2026	1,751	1.0%	1,675	2,037	1,234	2,000	(803)
2027	1,926	1.5%	1,667	2,229	1,234	2,000	(995)
2028	2,119	2.0%	1,658	2,440	1,234	2,000	(1,206)
2029	2,373	2.5%	1,650	2,719	1,234	2,000	(1,485)
2030	2,658	3.0%	1,641	3,029	1,234	2,000	(1,795)
2031	2,977	3.5%	1,633	3,376	1,234	2,000	(2,142)
2032	3,334	4.0%	1,624	3,761	1,234	2,000	(2,527)
2033	3,734	4.5%	1,616	4,190	1,234	2,000	(2,956)
2034	4,107	5.0%	1,607	4,584	1,234	2,000	(3,350)
2035	4,518	5.5%	1,599	5,017	1,234	2,000	(3,783)
2036	4,970	6.0%	1,590	5,489	1,234	2,000	(4,255)
2037	5,467	6.5%	1,582	6,006	1,234	2,000	(4,772)
2038	6,014	7.0%	1,574	6,572	1,234	2,000	(5,338)
2039	6,495	7.5%	1,565	7,059	1,234	2,000	(5,825)
2040	7,015	8.0%	1,557	7,583	1,234	2,000	(6,349)
2041	7,576	8.5%	1,548	8,145	1,234	2,000	(6,911)
2042	8,182	9.0%	1,540	8,749	1,234	2,000	(7,515)
2043	8,837	9.5%	1,531	9,397	1,234	2,000	(8,163)

$$\text{Required Source Capacity} = \#ERU \times \frac{\text{gpd}}{\#ERU} \times \frac{1 \text{ Day}}{24 \text{ hr}} \times \frac{1 \text{ hr}}{60 \text{ min}}$$

Storage Capacity Analysis												
Year	Number of ERUs	Percent Reduction In Usage Per ERU	Avg. Usage (gpd/ERU)	Storage Required (gal)	Fire Flow Stg Rqd (gal)	Existing Stg Capacity (gal)	Total Stg Rqd (gal)	Storage Capacity Surplus/Deficit (gal)	Project Name	Added Storage (gal)	Potenential Capacity (gal)	Potential Surplus (Gal)
2023	1315	0.0%	846	1,112,490	180,000	2,460,000	1,292,490	1,167,510	Sandhill Tank 1	2,000,000	2,460,000	1,167,510
2024	1447	0.0%	846	1,224,162	180,000	2,460,000	1,404,162	1,055,838			2,460,000	1,055,838
2025	1592	0.5%	842	1,340,098	180,000	2,460,000	1,520,098	939,902			4,460,000	2,939,902
2026	1751	1.0%	838	1,466,533	180,000	2,460,000	1,646,533	813,467			4,460,000	2,813,467
2027	1926	1.5%	833	1,604,955	180,000	2,460,000	1,784,955	675,045			4,460,000	2,675,045
2028	2119	2.0%	829	1,756,821	180,000	2,460,000	1,936,821	523,179			4,460,000	2,523,179
2029	2373	2.5%	825	1,957,369	180,000	2,460,000	2,137,369	322,631			4,460,000	2,322,631
2030	2658	3.0%	821	2,181,208	180,000	2,460,000	2,361,208	98,792			4,460,000	2,098,792
2031	2977	3.5%	816	2,430,393	180,000	2,460,000	2,610,393	-150,393			4,460,000	1,849,607
2032	3334	4.0%	812	2,707,741	180,000	2,460,000	2,887,741	-427,741			4,460,000	1,572,259
2033	3734	4.5%	808	3,016,811	180,000	2,460,000	3,196,811	-736,811	Trailhead Tank	500,000	4,460,000	1,263,189
2034	4107	5.0%	804	3,300,796	180,000	2,460,000	3,480,796	-1,020,796			4,960,000	1,479,204
2035	4518	5.5%	799	3,612,005	180,000	2,460,000	3,792,005	-1,332,005	South Concrete Tank	1,000,000	5,960,000	2,167,995
2036	4970	6.0%	795	3,952,343	180,000	2,460,000	4,132,343	-1,672,343			5,960,000	1,827,657
2037	5467	6.5%	791	4,324,452	180,000	2,460,000	4,504,452	-2,044,452	Sandhill Tank 2	2,000,000	5,960,000	1,455,548
2038	6014	7.0%	787	4,731,695	180,000	2,460,000	4,911,695	-2,451,695			7,960,000	3,048,305
2039	6495	7.5%	783	5,082,662	180,000	2,460,000	5,262,662	-2,802,662			7,960,000	2,697,338
2040	7015	8.0%	778	5,459,915	180,000	2,460,000	5,639,915	-3,179,915			7,960,000	2,320,085
2041	7576	8.5%	774	5,864,506	180,000	2,460,000	6,044,506	-3,584,506			7,960,000	1,915,494
2042	8182	9.0%	770	6,298,995	180,000	2,460,000	6,478,995	-4,018,995			7,960,000	1,481,005
2043	8837	9.5%	766	6,765,872	180,000	2,460,000	6,945,872	-4,485,872			7,960,000	1,014,128

$$\text{Required Storage Capacity} = \#ERU \times \frac{\text{gpd}}{\#ERU} + \text{Fire Flow (1,500gpm)} \frac{60 \text{ min}}{1 \text{ hr}} \times 2 \text{ hr}$$

Water Distribution Analysis

Year	No. ERU	ADD (gpm)	PDD (gpm)	PID Indoor (gpm)	PID Outdoor (gpm)	PID Total (gpm)
2023	1,315	773	1,545	1,070	1,189	2,259
2024	1,447	850	1,700	1,138	1,308	2,446
2025	1,592	931	1,861	1,210	1,439	2,649
2026	1,751	1,018	2,037	1,286	1,583	2,869
2027	1,926	1,115	2,229	1,366	1,741	3,108
2028	2,119	1,220	2,440	1,453	1,916	3,368
2029	2,373	1,359	2,719	1,562	2,145	3,707
2030	2,658	1,515	3,029	1,679	2,403	4,082
2031	2,977	1,688	3,376	1,806	2,691	4,497
2032	3,334	1,880	3,761	1,941	3,014	4,955
2033	3,734	2,095	4,190	2,087	3,376	5,463
2034	4,107	2,292	4,584	2,219	3,713	5,931
2035	4,518	2,508	5,017	2,358	4,084	6,443
2036	4,970	2,745	5,489	2,507	4,493	7,000
2037	5,467	3,003	6,006	2,664	4,942	7,606
2038	6,014	3,286	6,572	2,832	5,437	8,269
2039	6,495	3,530	7,059	2,975	5,871	8,846
2040	7,015	3,792	7,583	3,125	6,342	9,467
2041	7,576	4,073	8,145	3,283	6,849	10,132
2042	8,182	4,374	8,749	3,449	7,397	10,845
2043	8,837	4,699	9,397	3,623	7,989	11,612

APPENDIX C

Engineers Opinion of Probable Cost

Engineer's Opinion of Probable Cost					
Treatment Plant Wells				18-Oct-23	
Project Location: Colorado City				BCW/tcd	
NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 37,800.00	\$ 37,800.00
2	Pre-Construction DVD and Project Sign	1	LS	\$ 1,500.00	\$ 1,500.00
3	GeoPhysical Logging	1	LS	\$ 15,000.00	\$ 15,000.00
4	Disinfection and Capping	1	LS	\$ 4,000.00	\$ 4,000.00
5	Well Driller's Report	1	LS	\$ 2,500.00	\$ 2,500.00
6	Site Restoration	1	LS	\$ 10,000.00	\$ 10,000.00
7	Misc. Electrical Improvements	1	LS	\$ 15,000.00	\$ 15,000.00
DEEP WELL					
8	Conductor Casing	100	LF	\$ 400.00	\$ 40,000.00
9	20" Diameter Well Drilling	700	LF	\$ 123.00	\$ 86,100.00
10	12" Diameter Well Drilling - Pilot Hole	700	LF	\$ 160.00	\$ 112,000.00
11	12" Well Casing	600	LF	\$ 170.00	\$ 102,000.00
12	2" Galvanized Tremie Pipe	100	LF	\$ 40.00	\$ 4,000.00
13	Furnish and Install Pea Gravel	400	LF	\$ 115.00	\$ 46,000.00
14	Bentonite Packer	1	LS	\$ 6,000.00	\$ 6,000.00
15	Conductor Casing Removal	1	LS	\$ 8,000.00	\$ 8,000.00
16	Flow Meter	1	EA	\$ 10,000.00	\$ 10,000.00
17	Initial Well Development	40	HR	\$ 700.00	\$ 28,000.00
18	Install Pump for Development and Testing	1	LS	\$ 40,000.00	\$ 40,000.00
19	Well Development and Pumping	80	HR	\$ 700.00	\$ 56,000.00
20	Misc. Well and Pump Testing	1	LS	\$ 10,000.00	\$ 10,000.00
21	Well Head, Disinfection and Capping	1	LS	\$ 8,500.00	\$ 8,500.00
22	Well Pad and Pipping	1	LS	\$ 15,000.00	\$ 15,000.00
SHALLOW WELL					
23	Conductor Casing	1	LS	\$ 40,000.00	\$ 40,000.00
24	16" Diameter Well Drilling	120	LF	\$ 270.00	\$ 32,400.00
25	8" Well Casing	80	LF	\$ 100.00	\$ 8,000.00
26	8" Stainless Steel Screen	40	LF	\$ 300.00	\$ 12,000.00
27	2" Galvanized Tremie Pipe	20	LF	\$ 40.00	\$ 800.00
28	Instrument Pipe	120	LF	\$ 50.00	\$ 6,000.00
29	Furnish and Install Fine Silica Sand	120	LF	\$ 125.00	\$ 15,000.00
30	Bentonite Packer	1	LS	\$ 6,000.00	\$ 6,000.00
31	Conductor Casing Removal	1	LS	\$ 6,000.00	\$ 6,000.00
32	Sanitary Grout Seal	1	LS	\$ 150.00	\$ 150.00
33	Flow Meter	1	LS	\$ 10,000.00	\$ 10,000.00
34	Initial Well Development	40	HR	\$ 700.00	\$ 28,000.00
35	Install Pump for Development and Testing	1	LS	\$ 40,000.00	\$ 40,000.00
36	Well Development and Pumping	80	HR	\$ 700.00	\$ 56,000.00
37	Misc. Well and Pump Testing	1	LS	\$ 10,000.00	\$ 10,000.00
38	Well Head, Disinfection and Capping	1	LS	\$ 8,500.00	\$ 8,500.00
39	Well Pad and Pipping	1	LS	\$ 15,000.00	\$ 15,000.00
SUBTOTAL					\$ 951,250.00
CONTINGENCY				20%	\$ 190,300.00
CONSTRUCTION TOTAL					\$ 1,141,600.00
INCIDENTALS					
1	Engineering Design	4.3%	LS	\$ 55,000.00	\$ 55,000.00
2	Bidding & Negotiating	0.6%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	3.7%	HR	\$ 47,600.00	\$ 47,600.00
4	Topographic & Property Survey	0.4%	EST	\$ 5,000.00	\$ 5,000.00
5	Permitting	0.8%	EST	\$ 10,000.00	\$ 10,000.00
6	Funding and Administrative Services	0.9%	EST	\$ 12,000.00	\$ 12,000.00
7	Miscellaneous Professional Services	0.8%	EST	\$ 10,000.00	\$ 10,000.00
SUBTOTAL					\$ 147,100.00
TOTAL PROJECT COST					\$ 1,288,700.00

In providing opinions of probable construction cost, the Client understands that the Engineer has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinion of probable construction cost provided herein is made on the basis of the Engineer's qualifications and experience. The Engineer makes no warranty, expressed or implied, as to the accuracy of such opinions compared to bid or actual costs.

Engineer's Opinion of Probable Cost

Trailhead Well 1
Project Location: Hildale City

18-Oct-23
BCW/tcd

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 83,600.00	\$ 83,600.00
2	Pre-Construction DVD & Project Sign	1	LS	\$ 1,500.00	\$ 1,500.00
3	Traffic Control	1	LS	\$ 5,000.00	\$ 5,000.00
4	Subsurface Investigation	4	HR	\$ 250.00	\$ 1,000.00
5	Materials Sampling & Testing	1	LS	\$ 7,500.00	\$ 7,500.00
6	Dust Control & Watering	1	LS	\$ 10,000.00	\$ 10,000.00
7	Construction Staking	1	LS	\$ 10,000.00	\$ 10,000.00
8	Erosion Control Compliance	1	LS	\$ 7,500.00	\$ 7,500.00
9	Geophysical Survey	1	LS	\$ 20,000.00	\$ 20,000.00
10	Access and Drill Pad Construction	1	LS	\$ 145,000.00	\$ 145,000.00
11	Conductor Casing and Seal	100	LF	\$ 650.00	\$ 65,000.00
12	Drill 12" Pilot Borehole	600	LF	\$ 160.00	\$ 96,000.00
13	Drill 20" Reamed Borehole	600	LF	\$ 123.00	\$ 73,800.00
14	Geophysical Logging	1	LS	\$ 9,000.00	\$ 9,000.00
15	Well Installation - 12" Steel Casing	500	LF	\$ 170.00	\$ 85,000.00
16	Well Installation - 12" SS Screen 70 Slot	200	LF	\$ 350.00	\$ 70,000.00
17	Installation of Gravel Pack - 8-12	550	LF	\$ 115.00	\$ 63,250.00
18	Installation of Annular Grout Seal	150	LF	\$ 115.00	\$ 17,250.00
19	Initial Well Development	40	HR	\$ 750.00	\$ 30,000.00
20	Install Pump for Development and Testing	1	LS	\$ 42,000.00	\$ 42,000.00
21	Well Development by pumping	80	HR	\$ 425.00	\$ 34,000.00
22	Misc. Well and Pump Testing	1	LS	\$ 10,000.00	\$ 10,000.00
23	Well Disinfecting	1	LS	\$ 5,000.00	\$ 5,000.00
24	Well Head	1	LS	\$ 2,500.00	\$ 2,500.00
25	Well Capping	1	LS	\$ 750.00	\$ 750.00
26	Roadway Restoration	48,000	SF	\$ 6.00	\$ 288,000.00
27	10" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	8,000	LF	\$ 72.00	\$ 576,000.00
28	10" Gate Valve Assembly	4	EA	\$ 5,000.00	\$ 20,000.00
29	Misc. Connections, Fittings and Tie-ins	1	LS	\$ 20,000.00	\$ 20,000.00
SUBTOTAL					\$ 1,798,650.00
CONTINGENCY				20%	\$ 359,700.00
CONSTRUCTION TOTAL					\$ 2,158,400.00
INCIDENTALS					
1	Engineering Design	4.5%	LS	\$ 110,000.00	\$ 110,000.00
2	Bidding & Negotiating	0.3%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	3.7%	HR	\$ 89,900.00	\$ 89,900.00
4	Topographic & Property Survey	0.7%	EST	\$ 17,500.00	\$ 17,500.00
5	Water Right Change Application	0.8%	EST	\$ 20,000.00	\$ 20,000.00
6	Funding and Administrative Services	0.5%	EST	\$ 12,000.00	\$ 12,000.00
7	Permitting	0.4%	EST	\$ 10,000.00	\$ 10,000.00
8	Miscellaneous Professional Services	0.8%	EST	\$ 20,000.00	\$ 20,000.00
SUBTOTAL					\$ 286,900.00
TOTAL PROJECT COST					\$ 2,445,300.00

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Engineer's Opinion of Probable Cost

Trailhead Well 2

18-Oct-23

Project Location: Hildale City

BCW/tcd

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 32,000.00	\$ 32,000.00
2	Erosion Control Compliance	1	LS	\$ 5,000.00	\$ 5,000.00
3	Geophysical Survey	1	LS	\$ 20,000.00	\$ 20,000.00
4	Access and Drill Pad Construction	1	LS	\$ 50,000.00	\$ 50,000.00
5	Conductor Casing and Seal	100	LF	\$ 650.00	\$ 65,000.00
6	Drill 12" Pilot Borehole	600	LF	\$ 175.00	\$ 105,000.00
7	Drill 20" Reamed Borehole	600	LF	\$ 123.00	\$ 73,800.00
8	Geophysical Logging	1	LS	\$ 9,000.00	\$ 9,000.00
9	Well Installation - 12" Steel Casing	170	LF	\$ 170.00	\$ 28,900.00
10	Well Installation - 12" SS Screen 70 Slot	200	LF	\$ 350.00	\$ 70,000.00
11	Installation of Gravel Pack - 8-12	550	LF	\$ 115.00	\$ 63,250.00
12	Installation of Annular Grout Seal	150	LF	\$ 115.00	\$ 17,250.00
13	Initial Well Development	40	HR	\$ 750.00	\$ 30,000.00
14	Install Pump for Development and Testing	1	LS	\$ 42,000.00	\$ 42,000.00
15	Well Development by pumping	80	HR	\$ 425.00	\$ 34,000.00
16	Misc. Well and Pump Testing	1	LS	\$ 10,000.00	\$ 10,000.00
17	Well Disinfecting	1	LS	\$ 5,000.00	\$ 5,000.00
18	Well Head	1	LS	\$ 2,500.00	\$ 2,500.00
19	Well Capping	1	LS	\$ 750.00	\$ 750.00
20	8" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	150	LF	\$ 65.00	\$ 9,750.00
21	8" Gate Valve Assembly	1	EA	\$ 2,900.00	\$ 2,900.00
22	Water Right Procurement	1	LS	\$ 650,000.00	\$ 650,000.00
SUBTOTAL					\$ 1,326,100.00
CONTINGENCY				20%	\$ 265,200.00
CONSTRUCTION TOTAL					\$ 1,591,300.00
INCIDENTALS					
1	Engineering Design	2.6%	LS	\$ 45,000.00	\$ 45,000.00
2	Bidding & Negotiating	0.4%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	2.0%	HR	\$ 33,800.00	\$ 33,800.00
4	Topographic & Property Survey	0.2%	EST	\$ 3,500.00	\$ 3,500.00
5	Permitting	0.6%	EST	\$ 10,000.00	\$ 10,000.00
6	Funding and Administrative Services	0.7%	EST	\$ 12,000.00	\$ 12,000.00
39	Miscellaneous Professional Services	0.6%	EST	\$ 10,000.00	\$ 10,000.00
SUBTOTAL					\$ 121,800.00
TOTAL PROJECT COST					\$ 1,713,100.00

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Engineer's Opinion of Probable Cost

Hildale Groundwater Project PH I
Project Location: Hildale City

18-Oct-23
BCW/tcd

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 132,900.00	\$ 132,900.00
2	Pre-Construction DVD & Project Sign	1	LS	\$ 1,500.00	\$ 1,500.00
3	Traffic Control	1	LS	\$ 5,000.00	\$ 5,000.00
4	Subsurface Investigation	4	HR	\$ 250.00	\$ 1,000.00
5	Materials Sampling & Testing	1	LS	\$ 7,500.00	\$ 7,500.00
6	Dust Control & Watering	1	LS	\$ 10,000.00	\$ 10,000.00
7	Construction Staking	1	LS	\$ 10,000.00	\$ 10,000.00
8	Erosion Control Compliance	1	LS	\$ 7,500.00	\$ 7,500.00
9	Geophysical Survey	1	LS	\$ 23,000.00	\$ 23,000.00
10	Access and Drill Pad Construction	1	LS	\$ 130,000.00	\$ 130,000.00
11	Conductor Casing and Seal	100	LF	\$ 650.00	\$ 65,000.00
12	Drill 12" Pilot Borehole	650	LF	\$ 175.00	\$ 113,750.00
13	Drill 20" Reamed Borehole	650	LF	\$ 123.00	\$ 79,950.00
14	Geophysical Logging	1	LS	\$ 9,000.00	\$ 9,000.00
15	Caliper	1	LS	\$ 6,500.00	\$ 6,500.00
16	Well Installation - 12" Steel Casing	550	LF	\$ 100.00	\$ 55,000.00
17	Well Installation - 12" SS Screen 70 Slot	200	LF	\$ 350.00	\$ 70,000.00
18	Installation of Gravel Pack - 8-12	600	LF	\$ 115.00	\$ 69,000.00
19	Installation of Annular Grout Seal	150	LF	\$ 115.00	\$ 17,250.00
20	Initial Well Development	40	HR	\$ 750.00	\$ 30,000.00
21	Install Pump for Development and Testing	1	LS	\$ 42,000.00	\$ 42,000.00
22	Well Development by pumping	80	HR	\$ 425.00	\$ 34,000.00
23	Misc. Well and Pump Testing	1	LS	\$ 10,000.00	\$ 10,000.00
24	Well Disinfecting	1	LS	\$ 5,000.00	\$ 5,000.00
25	Well Head	1	LS	\$ 2,500.00	\$ 2,500.00
26	Well Capping	1	LS	\$ 750.00	\$ 750.00
27	Roadway Restoration	30,000	SF	\$ 7.75	\$ 232,500.00
28	8" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	5,000	LF	\$ 65.00	\$ 325,000.00
29	8" Gate Valve Assembly	8	EA	\$ 2,900.00	\$ 23,200.00
30	Misc. Connections, Fittings and Tie-ins	1	LS	\$ 15,000.00	\$ 15,000.00
31	Water Right Procurement	1	LS	\$ 1,300,000.00	\$ 1,300,000.00
SUBTOTAL					\$ 2,833,800.00
CONTINGENCY				20%	\$ 566,800.00
CONSTRUCTION TOTAL					\$ 3,400,600.00
INCIDENTALS					
1	Engineering Design	2.6%	LS	\$ 100,000.00	\$ 100,000.00
2	Bidding & Negotiating	0.2%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	3.0%	HR	\$ 113,400.00	\$ 113,400.00
4	Topographic & Property Survey	0.5%	EST	\$ 20,000.00	\$ 20,000.00
5	Funding and Administrative Services	0.3%	EST	\$ 12,000.00	\$ 12,000.00
5	Permitting	0.3%	EST	\$ 10,000.00	\$ 10,000.00
6	Environmental (Including Biological and Archeological) Report	0.9%	EST	\$ 35,000.00	\$ 35,000.00
8	BLM ROW Negotiation (SF299 Application & POD)	0.3%	EST	\$ 10,000.00	\$ 10,000.00
9	Miscellaneous Engineering Services	0.5%	EST	\$ 20,000.00	\$ 20,000.00
SUBTOTAL					\$ 392,900.00
TOTAL PROJECT COST					\$ 3,793,500.00

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Engineer's Opinion of Probable Cost

Hildale Groundwater Project PH II
Project Location: Hildale City

18-Oct-23
BCW/tcd

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 152,000.00	\$ 152,000.00
2	Pre-Construction DVD & Project Sign	1	LS	\$ 1,500.00	\$ 1,500.00
3	Traffic Control	1	LS	\$ 5,000.00	\$ 5,000.00
4	Subsurface Investigation	4	HR	\$ 250.00	\$ 1,000.00
5	Materials Sampling & Testing	1	LS	\$ 7,500.00	\$ 7,500.00
6	Dust Control & Watering	1	LS	\$ 10,000.00	\$ 10,000.00
7	Construction Staking	1	LS	\$ 10,000.00	\$ 10,000.00
8	Erosion Control Compliance	1	LS	\$ 7,500.00	\$ 7,500.00
9	Geophysical Survey	1	LS	\$ 23,000.00	\$ 23,000.00
10	Access and Drill Pad Construction	1	LS	\$ 130,000.00	\$ 130,000.00
11	Conductor Casing and Seal	100	LF	\$ 650.00	\$ 65,000.00
12	Drill 12" Pilot Borehole	650	LF	\$ 175.00	\$ 113,750.00
13	Drill 20" Reamed Borehole	650	LF	\$ 123.00	\$ 79,950.00
14	Geophysical Logging	1	LS	\$ 9,000.00	\$ 9,000.00
15	Caliper	1	LS	\$ 6,500.00	\$ 6,500.00
16	Well Installation - 12" Steel Casing	550	LF	\$ 100.00	\$ 55,000.00
17	Well Installation - 12" SS Screen 70 Slot	200	LF	\$ 350.00	\$ 70,000.00
18	Installation of Gravel Pack - 8-12	600	LF	\$ 115.00	\$ 69,000.00
19	Installation of Annular Grout Seal	150	LF	\$ 115.00	\$ 17,250.00
20	Initial Well Development	40	HR	\$ 750.00	\$ 30,000.00
21	Install Pump for Development and Testing	1	LS	\$ 42,000.00	\$ 42,000.00
22	Well Development by pumping	80	HR	\$ 425.00	\$ 34,000.00
23	Misc. Well and Pump Testing	1	LS	\$ 10,000.00	\$ 10,000.00
24	Well Disinfecting	1	LS	\$ 5,000.00	\$ 5,000.00
25	Well Head	1	LS	\$ 2,500.00	\$ 2,500.00
26	Well Capping	1	LS	\$ 750.00	\$ 750.00
27	Roadway Restoration	50,400	SF	\$ 7.75	\$ 390,600.00
28	8" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	8,400	LF	\$ 65.00	\$ 546,000.00
29	8" Gate Valve Assembly	9	EA	\$ 2,900.00	\$ 26,100.00
30	Misc. Connections, Fittings and Tie-ins	1	LS	\$ 15,000.00	\$ 15,000.00
31	Water Right Procurement	1	LS	\$ 1,300,000.00	\$ 1,300,000.00
SUBTOTAL					\$ 3,234,900.00
CONTINGENCY				20%	\$ 647,000.00
CONSTRUCTION TOTAL					\$ 3,881,900.00
INCIDENTALS					
1	Engineering Design	2.8%	LS	\$ 120,000.00	\$ 120,000.00
2	Bidding & Negotiating	0.2%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	2.3%	HR	\$ 96,700.00	\$ 96,700.00
4	Topographic & Property Survey	0.5%	EST	\$ 22,000.00	\$ 22,000.00
5	Funding and Administrative Services	0.3%	EST	\$ 12,000.00	\$ 12,000.00
6	Permitting	0.2%	EST	\$ 10,000.00	\$ 10,000.00
7	Environmental (Including Biological and Archeological) Report	0.9%	EST	\$ 40,000.00	\$ 40,000.00
8	BLM ROW Negotiation (SF299 Application & POD)	0.2%	EST	\$ 10,000.00	\$ 10,000.00
9	Miscellaneous Engineering Services	0.5%	EST	\$ 20,000.00	\$ 20,000.00
SUBTOTAL					\$ 338,200.00
TOTAL PROJECT COST					\$ 4,220,100.00

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Engineer's Opinion of Probable Cost

Hildale Groundwater Project PH III
Project Location: Hildale City

18-Oct-23
BCW/tcd

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 110,000.00	\$ 110,000.00
2	Pre-Construction DVD & Project Sign	1	LS	\$ 1,500.00	\$ 1,500.00
3	Traffic Control	1	LS	\$ 5,000.00	\$ 5,000.00
4	Subsurface Investigation	4	HR	\$ 250.00	\$ 1,000.00
5	Materials Sampling & Testing	1	LS	\$ 7,500.00	\$ 7,500.00
6	Dust Control & Watering	1	LS	\$ 10,000.00	\$ 10,000.00
7	Construction Staking	1	LS	\$ 10,000.00	\$ 10,000.00
8	Erosion Control Compliance	1	LS	\$ 7,500.00	\$ 7,500.00
9	Geophysical Survey	1	LS	\$ 23,000.00	\$ 23,000.00
10	Access and Drill Pad Construction	1	LS	\$ 130,000.00	\$ 130,000.00
11	Conductor Casing and Seal	100	LF	\$ 650.00	\$ 65,000.00
12	Drill 12" Pilot Borehole	600	LF	\$ 175.00	\$ 105,000.00
13	Drill 20" Reamed Borehole	600	LF	\$ 123.00	\$ 73,800.00
14	Geophysical Logging	1	LS	\$ 9,000.00	\$ 9,000.00
15	Caliper	1	LS	\$ 6,500.00	\$ 6,500.00
16	Well Installation - 12" Steel Casing	500	LF	\$ 170.00	\$ 85,000.00
17	Well Installation - 12" SS Screen 70 Slot	200	LF	\$ 350.00	\$ 70,000.00
18	Installation of Gravel Pack - 8-12	550	LF	\$ 115.00	\$ 63,250.00
19	Installation of Annular Grout Seal	150	LF	\$ 115.00	\$ 17,250.00
20	Initial Well Development	40	HR	\$ 750.00	\$ 30,000.00
21	Install Pump for Development and Testing	1	LS	\$ 42,000.00	\$ 42,000.00
22	Well Development by pumping	80	HR	\$ 425.00	\$ 34,000.00
23	Misc. Well and Pump Testing	1	LS	\$ 10,000.00	\$ 10,000.00
24	Well Disinfecting	1	LS	\$ 5,000.00	\$ 5,000.00
25	Well Head	1	LS	\$ 2,500.00	\$ 2,500.00
26	Well Capping	1	LS	\$ 750.00	\$ 750.00
27	Roadway Restoration	39,000	SF	\$ 8.00	\$ 312,000.00
28	8" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	6,500	LF	\$ 65.00	\$ 422,500.00
29	8" Gate Valve Assembly	8	EA	\$ 2,900.00	\$ 23,200.00
30	Misc. Connections, Fittings and Tie-ins	1	LS	\$ 20,000.00	\$ 20,000.00
31	Water Right Procurement	1	LS	\$ 650,000.00	\$ 650,000.00
SUBTOTAL					\$ 2,352,250.00
CONTINGENCY				20%	\$ 470,500.00
CONSTRUCTION TOTAL					\$ 2,822,800.00
INCIDENTALS					
1	Engineering Design	3.2%	LS	\$ 100,000.00	\$ 100,000.00
2	Bidding & Negotiating	0.2%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	2.2%	HR	\$ 68,100.00	\$ 68,100.00
4	Topographic & Property Survey	0.6%	EST	\$ 20,000.00	\$ 20,000.00
5	Funding and Administrative Services	0.4%	EST	\$ 12,000.00	\$ 12,000.00
6	Permitting	0.3%	EST	\$ 10,000.00	\$ 10,000.00
7	Environmental (Including Biological and Archeological) Report	1.1%	EST	\$ 35,000.00	\$ 35,000.00
8	BLM ROW Negotiation (SF299 Application & POD)	0.3%	EST	\$ 10,000.00	\$ 10,000.00
9	Miscellaneous Engineering Services	0.6%	EST	\$ 20,000.00	\$ 20,000.00
SUBTOTAL					\$ 282,600.00
TOTAL PROJECT COST					\$ 3,105,400.00

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Engineer's Opinion of Probable Cost

Arizona Well Fields
Project Location: Colorado City

11-Oct-23
MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION (ONE WELL)					
1	Mobilization	5%	LS	\$ 16,100.00	\$ 16,100.00
2	Traffic Control	1	LS	\$ 2,000.00	\$ 2,000.00
3	SWPPP Compliance	1	LS	\$ 2,000.00	\$ 2,000.00
4	Dust Control & Watering	1	LS	\$ 2,000.00	\$ 2,000.00
5	Subsurface Investigation	10	HR	\$ 40.00	\$ 400.00
6	Construction Staking	1	LS	\$ 500.00	\$ 500.00
7	Clearing, Grubbing, Excavation, & Demolition	1	LS	\$ 2,000.00	\$ 2,000.00
8	8" Diameter Test Well Drilling	150	LF	\$ 87.00	\$ 13,050.00
9	Develop and Pump Test Well	1	LS	\$ 17,400.00	\$ 17,400.00
10	Water Sampling (Full Drinking Water Standard)	1	EA	\$ 26,000.00	\$ 26,000.00
11	Furnish and Install Conductor Casing (Production Well)	1	LS	\$ 7,800.00	\$ 7,800.00
12	20" Diameter Production Well Drilling	150	LF	\$ 160.00	\$ 24,000.00
13	12" Diameter Casing	100	LF	\$ 52.00	\$ 5,200.00
14	12" Diameter Stainless Steel Screen	50	LF	\$ 350.00	\$ 17,500.00
15	3" Galvanized Gravel Pack Tremie Pipe	60	LF	\$ 16.00	\$ 960.00
16	2" Conduit for Level Indicator	150	LF	\$ 7.00	\$ 1,050.00
17	Concrete Grout and Seal	3	CY	\$ 1,200.00	\$ 3,600.00
18	Furnish and Install Pea Gravel (Disinfected)	3	CY	\$ 350.00	\$ 1,050.00
19	Bentonite Plug	1	LS	\$ 4,400.00	\$ 4,400.00
20	Furnish and Install Fine Silica Sand	3	CY	\$ 2,100.00	\$ 6,300.00
21	Develop Production Well	150	HR	\$ 435.00	\$ 65,250.00
22	Production Well Test Pump Equipment	1	LS	\$ 17,400.00	\$ 17,400.00
23	Test Pump Production Well	48	HR	\$ 260.00	\$ 12,480.00
24	Recovery Testing	12	HR	\$ 175.00	\$ 2,100.00
25	Disinfection and Capping	1	LS	\$ 550.00	\$ 550.00
26	Well House Building	1	LS	\$ 75,000.00	\$ 75,000.00
27	Piping to Connect to Raw Water System	1	LS	\$ 12,000.00	\$ 12,000.00
SUBTOTAL					\$ 338,100.00
CONTINGENCY				20%	\$ 67,600.00
CONSTRUCTION TOTAL					\$ 405,700.00
INCIDENTALS					
1	Engineering Design	7.6%	LS	\$ 36,000.00	\$ 36,000.00
2	Bidding & Negotiating	1.6%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services/Miscellaneous Services	5.7%	HR	\$ 27,000.00	\$ 27,000.00
SUBTOTAL					\$ 70,500.00
TOTAL PROJECT COST FOR ONE WELL					\$ 476,200.00
0-5 YEAR WELL FIELD					
	Number of New Wells	7	EA	\$ 476,200.00	\$ 3,333,400.00
TOTAL PROJECT COST AZ 0-5 YEAR WELL FIELD					\$ 3,333,400.00
6-10 YEAR WELL FIELD					
	Number of New Wells	8	EA	\$ 476,200.00	\$ 3,809,600.00
TOTAL PROJECT COST AZ 6-10 YEAR WELL FIELD					\$ 3,809,600.00
11-20 YEAR WELL FIELD					
	Number of New Wells	14	EA	\$ 476,200.00	\$ 6,666,800.00
TOTAL PROJECT COST AZ 11-20 YEAR WELL FIELD					\$ 6,666,800.00

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Engineer's Opinion of Probable Cost

Utah Well Fields
Project Location: Hildale City

11-Oct-23
MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION (ONE WELL)					
1	Mobilization	5%	LS	\$ 16,099.50	\$ 16,099.50
2	Traffic Control	1	LS	\$ 2,000.00	\$ 2,000.00
3	SWPPP Compliance	1	LS	\$ 2,000.00	\$ 2,000.00
4	Dust Control & Watering	1	LS	\$ 2,000.00	\$ 2,000.00
5	Subsurface Investigation	10	HR	\$ 40.00	\$ 400.00
6	Construction Staking	1	LS	\$ 500.00	\$ 500.00
7	Clearing, Grubbing, Excavation, & Demolition	1	LS	\$ 2,000.00	\$ 2,000.00
8	8" Diameter Test Well Drilling	150	LF	\$ 87.00	\$ 13,050.00
9	Develop and Pump Test Well	1	LS	\$ 17,400.00	\$ 17,400.00
10	Water Sampling (Full Drinking Water Standard)	1	EA	\$ 26,000.00	\$ 26,000.00
11	Furnish and Install Conductor Casing (Production Well)	1	LS	\$ 7,800.00	\$ 7,800.00
12	20" Diameter Production Well Drilling	150	LF	\$ 160.00	\$ 24,000.00
13	12" Diameter Casing	100	LF	\$ 52.00	\$ 5,200.00
14	12" Diameter Stainless Steel Screen	50	LF	\$ 350.00	\$ 17,500.00
15	3" Galvanized Gravel Pack Tremie Pipe	60	LF	\$ 16.00	\$ 960.00
16	2" Conduit for Level Indicator	150	LF	\$ 7.00	\$ 1,050.00
17	Concrete Grout and Seal	3	CY	\$ 1,200.00	\$ 3,600.00
18	Furnish and Install Pea Gravel (Disinfected)	3	CY	\$ 350.00	\$ 1,050.00
19	Bentonite Plug	1	LS	\$ 4,400.00	\$ 4,400.00
20	Furnish and Install Fine Silica Sand	3	CY	\$ 2,100.00	\$ 6,300.00
21	Develop Production Well	150	HR	\$ 435.00	\$ 65,250.00
22	Production Well Test Pump Equipment	1	LS	\$ 17,400.00	\$ 17,400.00
23	Test Pump Production Well	48	HR	\$ 260.00	\$ 12,480.00
24	Recovery Testing	12	HR	\$ 175.00	\$ 2,100.00
25	Disinfection and Capping	1	LS	\$ 550.00	\$ 550.00
26	Well House Building	1	LS	\$ 75,000.00	\$ 75,000.00
27	Piping to Connect to Raw Water System	1	LS	\$ 12,000.00	\$ 12,000.00
SUBTOTAL					\$ 338,089.50
CONTINGENCY				20%	\$ 67,617.90
CONSTRUCTION TOTAL					\$ 405,707.00
INCIDENTALS					
1	Engineering Design	7.6%	LS	\$ 36,019.43	\$ 36,019.43
2	Bidding & Negotiating	1.6%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services/Miscellaneous Services	5.7%	HR	\$ 27,000.00	\$ 27,000.00
SUBTOTAL					\$ 70,519.43
TOTAL PROJECT COST FOR ONE WELL					\$ 476,200.00
0-5 YEAR WELL FIELD					
	Number of New Wells	7	EA	\$ 476,200.00	\$ 3,333,400.00
	Purchase Water Rights	677	AC-FT	\$ 5,300.00	\$ 3,590,318.61
TOTAL PROJECT COST AZ 0-5 YEAR WELL FIELD					\$ 6,923,700.00
6-10 YEAR WELL FIELD					
	Number of New Wells	8	EA	\$ 476,200.00	\$ 3,809,600.00
	Purchase Water Rights	774	AC-FT	\$ 5,300.00	\$ 4,103,221.27
TOTAL PROJECT COST AZ 6-10 YEAR WELL FIELD					\$ 7,912,800.00
11-20 YEAR WELL FIELD					
	Number of New Wells	14	EA	\$ 476,200.00	\$ 6,666,800.00
	Purchase Water Rights	1,355	AC-FT	\$ 5,300.00	\$ 7,180,637.23
TOTAL PROJECT COST AZ 11-20 YEAR WELL FIELD					\$ 13,847,400.00

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Engineer's Opinion of Probable Cost

Sandhill Tank 1

Project Location: Hildale City

18-Oct-23

BCW/tcd

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 211,800.00	\$ 211,800.00
2	Traffic Control	1	LS	\$ 5,000.00	\$ 5,000.00
3	Pre-Construction DVD & Project Sign	1	LS	\$ 1,500.00	\$ 1,500.00
4	Dust Control & Watering	1	LS	\$ 10,000.00	\$ 10,000.00
5	Subsurface Investigation	20	HR	\$ 350.00	\$ 7,000.00
6	Restore Surface Improvements	1	LS	\$ 10,000.00	\$ 10,000.00
7	Construction Staking	1	LS	\$ 12,000.00	\$ 12,000.00
8	Materials Sampling & Testing	1	LS	\$ 35,000.00	\$ 35,000.00
9	Excavation & Demolition	1	LS	\$ 25,000.00	\$ 25,000.00
10	Earthwork & Grading	1	LS	\$ 400,000.00	\$ 400,000.00
11	2MG Concrete Storage Tank	1	LS	\$ 2,800,000.00	\$ 2,800,000.00
12	Tank Site Appurtenances	1	LS	\$ 75,000.00	\$ 75,000.00
13	Metering Station	1	LS	\$ 40,000.00	\$ 40,000.00
14	16" PVC (C900), Fittings, Installation, Pipe Bedding, Trench Backfill	1,360	LF	\$ 120.00	\$ 163,200.00
15	16" Gate Valve Assembly	4	EA	\$ 6,750.00	\$ 27,000.00
16	12" PVC (C900), Fittings, Installation, Pipe Bedding, Trench Backfill	2,264	LF	\$ 95.00	\$ 215,080.00
17	12" Gate Valve Assembly	10	EA	\$ 6,500.00	\$ 65,000.00
18	Misc. Connections, Fittings and Tie-ins	1	LS	\$ 30,000.00	\$ 30,000.00
19	Surface Restoration	1	LS	\$ 15,000.00	\$ 15,000.00
20	Elm Street PRV and Vault	1	EA	\$ 100,000.00	\$ 100,000.00
21	Valving and Piping to Create New Pressure Zone	1	LS	\$ 45,000.00	\$ 45,000.00
22	Misc Electrical and SCADA Improvements	1	LS	\$ 20.00	\$ 20.00
23	Tank Access Road	28,992	SF	\$ 2.75	\$ 79,728.00
24	Fence and Gate	1	LS	\$ 75,000.00	\$ 75,000.00
SUBTOTAL					\$ 4,447,328.00
CONTINGENCY				20%	\$ 889,500.00
CONSTRUCTION TOTAL					\$ 5,336,800.00
INCIDENTALS					
1	Engineering Design	3.4%	LS	\$ 200,000.00	\$ 200,000.00
2	Bidding & Negotiating	0.1%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	4.5%	HR	\$ 266,800.00	\$ 266,800.00
4	Topographic & Property Survey	0.3%	EST	\$ 15,000.00	\$ 15,000.00
5	Geotechnical Report	0.2%	EST	\$ 10,000.00	\$ 10,000.00
6	Funding and Administrative Services	0.2%	EST	\$ 12,000.00	\$ 12,000.00
7	Permitting	0.2%	EST	\$ 10,000.00	\$ 10,000.00
8	Environmental (Including Biological and Archeological) Report	0.5%	EST	\$ 30,000.00	\$ 30,000.00
9	SCADA Design	0.3%	EST	\$ 15,000.00	\$ 15,000.00
10	BLM ROW Negotiation (SF299 Application & POD)	0.2%	EST	\$ 10,000.00	\$ 10,000.00
11	Miscellaneous Engineering Services	0.4%	EST	\$ 25,000.00	\$ 25,000.00
SUBTOTAL					\$ 601,300.00
TOTAL PROJECT COST					\$ 5,938,100.00

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Engineer's Opinion of Probable Cost

Trailhead Tank
Project Location: Hildale City

12-Oct-23
MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 100,700.00	\$ 100,700.00
2	Traffic Control	1	LS	\$ 5,000.00	\$ 5,000.00
3	Pre-Construction DVD & Project Sign	1	LS	\$ 1,500.00	\$ 1,500.00
4	Dust Control & Watering	1	LS	\$ 10,000.00	\$ 10,000.00
5	Subsurface Investigation	30	HR	\$ 350.00	\$ 10,500.00
6	Restore Surface Improvements	1	LS	\$ 7,800.00	\$ 7,800.00
7	Construction Staking	1	LS	\$ 5,000.00	\$ 5,000.00
8	Materials Sampling & Testing	1	LS	\$ 35,000.00	\$ 35,000.00
9	Earthwork	1	LS	\$ 200,000.00	\$ 200,000.00
10	500K Concrete Storage Tank	1	LS	\$ 810,000.00	\$ 810,000.00
11	Tank Site Appurtenances	1	LS	\$ 100,000.00	\$ 100,000.00
12	Fence and Gate	1	LS	\$ 20,000.00	\$ 20,000.00
13	Metering Station	1	LS	\$ 34,000.00	\$ 34,000.00
14	Tank Access Rd	5,500	SF	\$ 2.00	\$ 11,000.00
15	10" PVC (C900), Fittings, Installation, Pipe Bedding, Trench Backfill	8,000	LF	\$ 75.00	\$ 600,000.00
16	10" Gate Valve Assembly	5	EA	\$ 5,000.00	\$ 25,000.00
17	Misc. Connections, Fittings, and Tie-Ins	1	LS	\$ 20,000.00	\$ 20,000.00
18	Misc Electrical and SCADA Improvements	1	LS	\$ 20,000.00	\$ 20,000.00
19	PRV and Vault	1	EA	\$ 100,000.00	\$ 100,000.00
SUBTOTAL					\$ 2,115,500.00
CONTINGENCY				20%	\$ 423,100.00
CONSTRUCTION TOTAL					\$ 2,538,600.00
INCIDENTALS					
1	Engineering Design	3.3%	LS	\$ 95,000.00	\$ 95,000.00
2	Bidding & Negotiating	0.3%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	4.4%	HR	\$ 126,900.00	\$ 126,900.00
4	Topographic & Property Survey	0.3%	EST	\$ 8,000.00	\$ 8,000.00
5	Geotechnical Report	0.3%	EST	\$ 10,000.00	\$ 10,000.00
6	Funding and Administrative Services	0.4%	EST	\$ 12,000.00	\$ 12,000.00
7	Permitting	0.3%	EST	\$ 10,000.00	\$ 10,000.00
10	Environmental (Including Biological and Archeological) Report	0.9%	EST	\$ 25,000.00	\$ 25,000.00
11	BLM ROW Negotiation (SF299 Application & POD)	0.3%	EST	\$ 10,000.00	\$ 10,000.00
39	Miscellaneous Professional Services	0.7%	EST	\$ 20,000.00	\$ 20,000.00
SUBTOTAL					\$ 336,900.00
TOTAL PROJECT COST					\$ 2,875,500.00

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Engineer's Opinion of Probable Cost

South Concrete Tank
Project Location: Colorado City

12-Oct-23
MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 154,900.00	\$ 154,900.00
2	Traffic Control	1	LS	\$ 2,000.00	\$ 2,000.00
3	Pre-Construction DVD & Project Sign	1	LS	\$ 1,500.00	\$ 1,500.00
4	Dust Control & Watering	1	LS	\$ 10,000.00	\$ 10,000.00
5	Subsurface Investigation	30	HR	\$ 350.00	\$ 10,500.00
6	Restore Surface Improvements	1	LS	\$ 10,000.00	\$ 10,000.00
7	Construction Staking	1	LS	\$ 12,000.00	\$ 12,000.00
8	Materials Sampling & Testing	1	LS	\$ 35,000.00	\$ 35,000.00
9	Excavation & Demolition	1	LS	\$ 25,000.00	\$ 25,000.00
10	Earthwork & Grading	1	LS	\$ 400,000.00	\$ 400,000.00
11	1MG Concrete Storage Tank	1	LS	\$ 1,500,000.00	\$ 1,500,000.00
12	Tank Site Appurtenances	1	LS	\$ 250,000.00	\$ 250,000.00
13	Metering Station	1	LS	\$ 40,000.00	\$ 40,000.00
14	12" PVC (C900), Fittings, Installation, Pipe Bedding, Trench Backfill	4,000	LF	\$ 110.00	\$ 440,000.00
15	12" Gate Valve Assembly	10	EA	\$ 6,750.00	\$ 67,500.00
16	Misc. Connections, Fittings and Tie-ins	1	LS	\$ 30,000.00	\$ 30,000.00
17	Surface Restoration	1	LS	\$ 15,000.00	\$ 15,000.00
18	PRV and Vault	1	EA	\$ 100,000.00	\$ 100,000.00
19	Valving and Piping to Create New Pressure Zone	1	LS	\$ 45,000.00	\$ 45,000.00
20	Misc Electrical and SCADA Improvements	1	LS	\$ 20,000.00	\$ 20,000.00
21	Tank Access Road	32,000	SF	\$ 2.00	\$ 64,000.00
22	Fence and Gate	1	LS	\$ 20,000.00	\$ 20,000.00
SUBTOTAL					\$ 3,252,400.00
CONTINGENCY				20%	\$ 650,500.00
CONSTRUCTION TOTAL					\$ 3,902,900.00
INCIDENTALS					
1	Engineering Design	4.5%	LS	\$ 200,000.00	\$ 200,000.00
2	Bidding & Negotiating	0.2%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	4.4%	HR	\$ 195,100.00	\$ 195,100.00
4	Topographic & Property Survey	0.3%	EST	\$ 15,000.00	\$ 15,000.00
5	Geotechnical Report	0.2%	EST	\$ 10,000.00	\$ 10,000.00
6	Funding and Administrative Services	0.3%	EST	\$ 12,000.00	\$ 12,000.00
7	Permitting	0.2%	EST	\$ 10,000.00	\$ 10,000.00
8	Environmental (Including Biological and Archeological) Report	0.7%	EST	\$ 30,000.00	\$ 30,000.00
9	SCADA Design	0.3%	EST	\$ 15,000.00	\$ 15,000.00
10	BLM ROW Negotiation (SF299 Application & POD)	0.2%	EST	\$ 10,000.00	\$ 10,000.00
11	Miscellaneous Engineering Services	0.6%	EST	\$ 25,000.00	\$ 25,000.00
SUBTOTAL					\$ 529,600.00
TOTAL PROJECT COST					\$ 4,432,500.00

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Engineer's Opinion of Probable Cost

Sandhill Tank 2
Project Location: Hildale City

18-Oct-23
MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 232,100.00	\$ 232,100.00
2	Traffic Control	1	LS	\$ 2,000.00	\$ 2,000.00
3	Pre-Construction DVD & Project Sign	1	LS	\$ 1,500.00	\$ 1,500.00
4	Dust Control & Watering	1	LS	\$ 10,000.00	\$ 10,000.00
5	Subsurface Investigation	30	HR	\$ 350.00	\$ 10,500.00
6	Restore Surface Improvements	1	LS	\$ 10,000.00	\$ 10,000.00
7	Construction Staking	1	LS	\$ 12,000.00	\$ 12,000.00
8	Materials Sampling & Testing	1	LS	\$ 35,000.00	\$ 35,000.00
9	Excavation & Demolition	1	LS	\$ 25,000.00	\$ 25,000.00
10	Earthwork & Grading	1	LS	\$ 400,000.00	\$ 400,000.00
11	2MG Concrete Storage Tank	1	LS	\$ 2,800,000.00	\$ 2,800,000.00
12	Tank Site Appurtenances	1	LS	\$ 250,000.00	\$ 250,000.00
13	Metering Station	1	LS	\$ 40,000.00	\$ 40,000.00
14	24" PVC (C900), Fittings, Installation, Pipe Bedding, Trench Backfill	2,700	LF	\$ 150.00	\$ 405,000.00
15	24" Gate Valve Assembly	6	EA	\$ 9,500.00	\$ 57,000.00
16	16" PVC (C900), Fittings, Installation, Pipe Bedding, Trench Backfill	2,350	LF	\$ 120.00	\$ 282,000.00
17	16" Gate Valve Assembly	5	EA	\$ 6,750.00	\$ 33,750.00
18	Misc. Connections, Fittings and Tie-ins	1	LS	\$ 30,000.00	\$ 30,000.00
19	Surface Restoration	1	LS	\$ 15,000.00	\$ 15,000.00
20	PRV and Vault	1	EA	\$ 100,000.00	\$ 100,000.00
21	Valving and Piping to Create New Pressure Zone	1	LS	\$ 45,000.00	\$ 45,000.00
22	Misc Electrical and SCADA Improvements	1	LS	\$ 20,000.00	\$ 20,000.00
23	Tank Access Road	18,800	SF	\$ 2.00	\$ 37,600.00
24	Fence and Gate	1	LS	\$ 20,000.00	\$ 20,000.00
SUBTOTAL					\$ 4,873,450.00
CONTINGENCY				20%	\$ 974,700.00
CONSTRUCTION TOTAL					\$ 5,848,200.00
INCIDENTALS					
1	Engineering Design	3.1%	LS	\$ 200,000.00	\$ 200,000.00
2	Bidding & Negotiating	0.1%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	4.5%	HR	\$ 292,400.00	\$ 292,400.00
4	Topographic & Property Survey	0.2%	EST	\$ 15,000.00	\$ 15,000.00
5	Geotechnical Report	0.2%	EST	\$ 10,000.00	\$ 10,000.00
6	Funding and Administrative Services	0.2%	EST	\$ 12,000.00	\$ 12,000.00
7	Permitting	0.2%	EST	\$ 10,000.00	\$ 10,000.00
8	Environmental (Including Biological and Archeological) Report	0.5%	EST	\$ 30,000.00	\$ 30,000.00
9	SCADA Design	0.2%	EST	\$ 15,000.00	\$ 15,000.00
10	BLM ROW Negotiation (SF299 Application & POD)	0.2%	EST	\$ 10,000.00	\$ 10,000.00
11	Miscellaneous Engineering Services	0.4%	EST	\$ 25,000.00	\$ 25,000.00
SUBTOTAL					\$ 626,900.00
TOTAL PROJECT COST					\$ 6,475,100.00

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Engineer's Opinion of Probable Cost

Raw Water Transmission Line					18-Oct-23
Project Location: Colorado City					BCW/tcd
NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 37,800.00	\$ 37,800.00
2	Traffic Control	1	LS	\$ 10,000.00	\$ 10,000.00
3	Dust Control & Watering	1	LS	\$ 10,000.00	\$ 10,000.00
4	Subsurface Investigation	10	HR	\$ 250.00	\$ 2,500.00
5	Restore Surface Improvements	1	LS	\$ 15,000.00	\$ 15,000.00
6	Construction Staking	1	LS	\$ 10,000.00	\$ 10,000.00
7	Erosion Control Compliance	1	LS	\$ 5,000.00	\$ 5,000.00
8	Materials Sampling & Testing	1	LS	\$ 12,500.00	\$ 12,500.00
9	Excavation & Demolition	1	LS	\$ 20,000.00	\$ 20,000.00
10	12" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	2,500	LF	\$ 110.00	\$ 275,000.00
11	12" Gate Valve Assembly	8	EA	\$ 6,500.00	\$ 52,000.00
12	Pavement Restoration	26,400	SF	\$ 7.75	\$ 204,600.00
13	Access/Cleanout Structure	4	EA	\$ 5,000.00	\$ 20,000.00
14	Misc. Fittings, Connections, and Tie-Ins	1	LS	\$ 20,000.00	\$ 20,000.00
15	Electrical Conduit	2,500	LF	\$ 40.00	\$ 100,000.00
SUBTOTAL					\$ 794,400.00
CONTINGENCY				20%	\$ 158,900.00
CONSTRUCTION TOTAL					\$ 953,300.00
INCIDENTALS					
1	Engineering Design	4.6%	LS	\$ 50,000.00	\$ 50,000.00
2	Bidding & Negotiating	0.7%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	3.6%	HR	\$ 39,700.00	\$ 39,700.00
4	Topographic & Property Survey	1.4%	EST	\$ 15,000.00	\$ 15,000.00
5	Permitting	0.5%	EST	\$ 5,000.00	\$ 5,000.00
6	Funding and Administrative Services	1.1%	EST	\$ 12,000.00	\$ 12,000.00
7	Miscellaneous Engineering Services	0.9%	EST	\$ 10,000.00	\$ 10,000.00
SUBTOTAL					\$ 139,200.00
TOTAL PROJECT COST					\$ 1,092,500.00

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Engineer's Opinion of Probable Cost

Small Treatment Plant (1,600 gpm)

Project Location: Hildale City

12-Oct-23

MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 206,000.00	\$ 206,000.00
2	Pilot Study	1	LS	\$ 75,000.00	\$ 75,000.00
3	Construction Staking	1	LS	\$ 15,000.00	\$ 15,000.00
4	Dust Control & Watering	1	LS	\$ 20,000.00	\$ 20,000.00
5	Package Pressure Filtration System	1	LS	\$ 1,300,000.00	\$ 1,300,000.00
6	Site Earthwork	1	LS	\$ 150,000.00	\$ 150,000.00
7	Water Treatment Plant Building & Appurtenances	1	LS	\$ 1,000,000.00	\$ 1,000,000.00
8	Chlorinator System	1	LS	\$ 100,000.00	\$ 100,000.00
9	Chlorine Contact Chamber	1	LS	\$ 200,000.00	\$ 200,000.00
10	Effluent Pump Station	1	LS	\$ 275,000.00	\$ 275,000.00
11	Electrical Systems	1	LS	\$ 350,000.00	\$ 350,000.00
12	Mechanical System	1	LS	\$ 200,000.00	\$ 200,000.00
13	Miscellaneous Piping to and from Site	1	LS	\$ 185,000.00	\$ 185,000.00
14	Miscellaneous Valves	1	LS	\$ 90,000.00	\$ 90,000.00
15	Miscellaneous Site Improvements (parking, fence, gate, etc.)	1	LS	\$ 110,000.00	\$ 110,000.00
16	SCADA Improvements	1	LS	\$ 50,000.00	\$ 50,000.00
SUBTOTAL					\$ 4,326,000.00
CONTINGENCY				20%	\$ 865,200.00
CONSTRUCTION TOTAL					\$ 5,191,200.00
INCIDENTALS					
1	Engineering Design	5.3%	LS	\$ 311,500.00	\$ 311,500.00
2	Bidding & Negotiating	0.2%	HR	\$ 10,000.00	\$ 10,000.00
3	Engineering Construction Services	4.4%	HR	\$ 259,600.00	\$ 259,600.00
4	Topographic & Property Survey	0.3%	EST	\$ 15,000.00	\$ 15,000.00
5	Geotechnical Report	0.2%	EST	\$ 10,000.00	\$ 10,000.00
6	Funding and Administrative Services	0.3%	EST	\$ 20,000.00	\$ 20,000.00
7	Permitting	0.2%	EST	\$ 12,500.00	\$ 12,500.00
8	SCADA Design	0.4%	EST	\$ 25,000.00	\$ 25,000.00
9	Miscellaneous Professional Services	0.8%	EST	\$ 50,000.00	\$ 50,000.00
SUBTOTAL					\$ 713,600.00
TOTAL PROJECT COST					\$ 5,904,800.00

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Engineer's Opinion of Probable Cost

Additional Treatment Capacity (3,000 gpm)

12-Oct-23

Project Location: Not Specified

MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 306,800.00	\$ 306,800.00
2	Pilot Study	1	LS	\$ 75,000.00	\$ 75,000.00
3	Construction Staking	1	LS	\$ 15,000.00	\$ 15,000.00
4	Dust Control & Watering	1	LS	\$ 20,000.00	\$ 20,000.00
5	Package Pressure Filtration System	1	LS	\$ 2,300,000.00	\$ 2,300,000.00
6	Site Earthwork	1	LS	\$ 200,000.00	\$ 200,000.00
7	Water Treatment Plant Building & Appurtenances	1	LS	\$ 1,500,000.00	\$ 1,500,000.00
8	Chlorinator System	1	LS	\$ 100,000.00	\$ 100,000.00
9	Chlorine Contact Chamber	1	LS	\$ 325,000.00	\$ 325,000.00
10	Effluent Pump Station	1	LS	\$ 375,000.00	\$ 375,000.00
11	Electrical Systems	1	LS	\$ 400,000.00	\$ 400,000.00
12	Mechanical System	1	LS	\$ 275,000.00	\$ 275,000.00
13	Miscellaneous Piping to and from Site	1	LS	\$ 225,000.00	\$ 225,000.00
14	Miscellaneous Valves	1	LS	\$ 100,000.00	\$ 100,000.00
15	Miscellaneous Site Improvements (parking, fence, gate, etc.)	1	LS	\$ 175,000.00	\$ 175,000.00
16	SCADA Improvements	1	LS	\$ 50,000.00	\$ 50,000.00
SUBTOTAL					\$ 6,441,800.00
CONTINGENCY				20%	\$ 1,288,400.00
CONSTRUCTION TOTAL					\$ 7,730,200.00
INCIDENTALS					
1	Engineering Design	5.5%	LS	\$ 479,800.00	\$ 479,800.00
2	Bidding & Negotiating	0.1%	HR	\$ 10,000.00	\$ 10,000.00
3	Engineering Construction Services	4.4%	HR	\$ 386,500.00	\$ 386,500.00
4	Topographic & Property Survey	0.2%	EST	\$ 15,000.00	\$ 15,000.00
5	Geotechnical Report	0.1%	EST	\$ 10,000.00	\$ 10,000.00
6	Funding and Administrative Services	0.2%	EST	\$ 20,000.00	\$ 20,000.00
7	Permitting	0.1%	EST	\$ 12,500.00	\$ 12,500.00
8	SCADA Design	0.3%	EST	\$ 25,000.00	\$ 25,000.00
9	Miscellaneous Engineering Services	0.6%	EST	\$ 50,000.00	\$ 50,000.00
SUBTOTAL					\$ 1,008,800.00
TOTAL PROJECT COST					\$ 8,739,000.00

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Engineer's Opinion of Probable Cost

Additional Treatment Capacity PH2 (4,000 gpm)

12-Oct-23

Project Location: Not Specified

MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 363,300.00	\$ 363,300.00
2	Pilot Study	1	LS	\$ 75,000.00	\$ 75,000.00
3	Construction Staking	1	LS	\$ 15,000.00	\$ 15,000.00
4	Dust Control & Watering	1	LS	\$ 20,000.00	\$ 20,000.00
5	Package Pressure Filtration System	1	LS	\$ 3,000,000.00	\$ 3,000,000.00
6	Site Earthwork	1	LS	\$ 200,000.00	\$ 200,000.00
7	Water Treatment Plant Building & Appurtenances	1	LS	\$ 1,750,000.00	\$ 1,750,000.00
8	Chlorinator System	1	LS	\$ 100,000.00	\$ 100,000.00
9	Chlorine Contact Chamber	1	LS	\$ 375,000.00	\$ 375,000.00
10	Effluent Pump Station	1	LS	\$ 425,000.00	\$ 425,000.00
11	Electrical Systems	1	LS	\$ 450,000.00	\$ 450,000.00
12	Mechanical System	1	LS	\$ 315,000.00	\$ 315,000.00
13	Miscellaneous Piping to and from Site	1	LS	\$ 225,000.00	\$ 225,000.00
14	Miscellaneous Valves	1	LS	\$ 115,000.00	\$ 115,000.00
15	Miscellaneous Site Improvements (parking, fence, gate, etc.)	1	LS	\$ 150,000.00	\$ 150,000.00
16	SCADA Improvements	1	LS	\$ 50,000.00	\$ 50,000.00
SUBTOTAL					\$ 7,628,300.00
CONTINGENCY				20%	\$ 1,525,700.00
CONSTRUCTION TOTAL					\$ 9,154,000.00
INCIDENTALS					
1	Engineering Design	5.4%	LS	\$ 558,000.00	\$ 558,000.00
2	Bidding & Negotiating	0.1%	HR	\$ 10,000.00	\$ 10,000.00
3	Engineering Construction Services	4.4%	HR	\$ 457,700.00	\$ 457,700.00
4	Topographic & Property Survey	0.1%	EST	\$ 15,000.00	\$ 15,000.00
5	Geotechnical Report	0.1%	EST	\$ 10,000.00	\$ 10,000.00
6	Funding and Administrative Services	0.2%	EST	\$ 20,000.00	\$ 20,000.00
7	Permitting	0.1%	EST	\$ 12,500.00	\$ 12,500.00
8	SCADA Design	0.2%	EST	\$ 25,000.00	\$ 25,000.00
9	Miscellaneous Engineering Services	0.5%	EST	\$ 50,000.00	\$ 50,000.00
SUBTOTAL					\$ 1,158,200.00
TOTAL PROJECT COST					\$ 10,312,200.00

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Engineer's Opinion of Probable Cost

Fire Hydrant Improvements

18-Oct-23

Project Location: Hildale City

BCW/tcd

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 61,700.00	\$ 61,700.00
2	Pre-Construction DVD and Project Sign	1	LS	\$ 2,500.00	\$ 2,500.00
3	Traffic Control	1	LS	\$ 10,000.00	\$ 10,000.00
4	Subsurface Investigation	24	HR	\$ 250.00	\$ 6,000.00
5	Materials Sampling & Testing	1	LS	\$ 16,000.00	\$ 16,000.00
6	Dust Control & Watering	1	LS	\$ 9,000.00	\$ 9,000.00
7	Construction Staking	1	LS	\$ 13,000.00	\$ 13,000.00
8	Erosion Control Compliance	1	LS	\$ 6,000.00	\$ 6,000.00
9	6" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	2,100	LF	\$ 50.00	\$ 105,000.00
10	6" Gate Valve Assembly	80	EA	\$ 2,000.00	\$ 160,000.00
11	8" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	2,930	LF	\$ 65.00	\$ 190,450.00
12	8" Gate Valve Assembly	8	EA	\$ 2,900.00	\$ 23,200.00
13	Fire Hydrant Assembly	78	EA	\$ 7,000.00	\$ 546,000.00
14	Restore Gravel Road	21,200	SF	\$ 3.25	\$ 68,900.00
15	Pavement Restoration	9,100	SF	\$ 7.50	\$ 68,250.00
16	Restore Surface Improvements	1	LS	\$ 10,000.00	\$ 10,000.00
SUBTOTAL					\$ 1,296,000.00
CONTINGENCY				20%	\$ 259,200.00
CONSTRUCTION TOTAL					\$ 1,555,200.00
INCIDENTALS					
1	Engineering Design	4.6%	LS	\$ 79,000.00	\$ 79,000.00
2	Bidding & Negotiating	0.4%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	3.7%	HR	\$ 64,800.00	\$ 64,800.00
4	Topographic & Property Survey	0.6%	EST	\$ 10,000.00	\$ 10,000.00
5	Funding and Administrative Services	0.7%	EST	\$ 12,000.00	\$ 12,000.00
6	Miscellaneous Engineering Services	0.3%	EST	\$ 5,000.00	\$ 5,000.00
SUBTOTAL					\$ 178,300.00
TOTAL PROJECT COST					\$ 1,733,500.00

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Engineer's Opinion of Probable Cost

Upper Pressure Zone Improvements
Project Location: Hildale City

17-Oct-23
MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 29,100.00	\$ 29,100.00
2	Pre-Construction DVD	1	LS	\$ 1,500.00	\$ 1,500.00
3	Traffic Control	1	LS	\$ 7,500.00	\$ 7,500.00
4	Subsurface Investigation	16	HR	\$ 250.00	\$ 4,000.00
5	Materials Sampling & Testing	1	LS	\$ 10,000.00	\$ 10,000.00
6	Dust Control & Watering	1	LS	\$ 7,500.00	\$ 7,500.00
7	Construction Staking	1	LS	\$ 7,500.00	\$ 7,500.00
8	Erosion Control Compliance	1	LS	\$ 6,000.00	\$ 6,000.00
9	8" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	5,000	LF	\$ 65.00	\$ 325,000.00
10	8" Gate Valve Assembly	14	EA	\$ 5,000.00	\$ 70,000.00
11	Disconnect and Reconnect Water Services	6	EA	\$ 2,000.00	\$ 12,000.00
12	Restore Gravel Road	30,000	SF	\$ 3.25	\$ 97,500.00
13	Restore Surface Improvements	1	LS	\$ 10,000.00	\$ 10,000.00
14	Misc. Connections, Fittings, and Tie-Ins	1	LS	\$ 10,000.00	\$ 10,000.00
15	6" Fire Hydrant Assembly	2	EA	\$ 7,000.00	\$ 14,000.00
SUBTOTAL					\$ 611,600.00
CONTINGENCY				20%	\$ 122,300.00
CONSTRUCTION TOTAL					\$ 733,900.00
INCIDENTALS					
1	Engineering Design	5.3%	LS	\$ 45,000.00	\$ 45,000.00
2	Bidding & Negotiating	0.9%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	3.6%	HR	\$ 30,600.00	\$ 30,600.00
4	Topographic & Property Survey	0.9%	EST	\$ 7,500.00	\$ 7,500.00
5	Funding and Administrative Services	1.4%	EST	\$ 12,000.00	\$ 12,000.00
6	Permitting	0.6%	EST	\$ 5,000.00	\$ 5,000.00
7	Miscellaneous Professional Services	0.6%	EST	\$ 5,000.00	\$ 5,000.00
SUBTOTAL					\$ 112,600.00
TOTAL PROJECT COST					\$ 846,500.00

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Engineer's Opinion of Probable Cost

Canyon Street Line
Project Location: Hildale City

17-Oct-23
MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 12,400.00	\$ 12,400.00
2	Pre-Construction DVD	1	LS	\$ 1,500.00	\$ 1,500.00
3	Traffic Control	1	LS	\$ 10,000.00	\$ 10,000.00
4	Subsurface Investigation	8	HR	\$ 250.00	\$ 2,000.00
5	Materials Sampling & Testing	1	LS	\$ 10,000.00	\$ 10,000.00
6	Dust Control & Watering	1	LS	\$ 10,000.00	\$ 10,000.00
7	Construction Staking	1	LS	\$ 7,500.00	\$ 7,500.00
8	Erosion Control Compliance	1	LS	\$ 7,500.00	\$ 7,500.00
9	8" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	1,500	LF	\$ 65.00	\$ 97,500.00
10	8" Gate Valve Assembly	5	EA	\$ 5,000.00	\$ 25,000.00
11	Restore Surface Improvements	1	LS	\$ 10,000.00	\$ 10,000.00
12	Pavement Restoration	9,000	SF	\$ 6.00	\$ 54,000.00
13	Misc. Connections, Fittings, and Tie-Ins	1	LS	\$ 7,500.00	\$ 7,500.00
14	Reconnect Water Services	5	EA	\$ 1,200.00	\$ 6,000.00
SUBTOTAL					\$ 260,900.00
CONTINGENCY				20%	\$ 52,200.00
CONSTRUCTION TOTAL					\$ 313,100.00
INCIDENTALS					
1	Engineering Design	6.4%	LS	\$ 25,000.00	\$ 25,000.00
2	Bidding & Negotiating	1.9%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	4.7%	HR	\$ 18,300.00	\$ 18,300.00
4	Topographic & Property Survey	1.9%	EST	\$ 7,500.00	\$ 7,500.00
5	Funding and Administrative Services	2.6%	EST	\$ 10,000.00	\$ 10,000.00
6	Permitting	1.3%	EST	\$ 5,000.00	\$ 5,000.00
7	Miscellaneous Engineering Services	0.6%	EST	\$ 2,500.00	\$ 2,500.00
SUBTOTAL					\$ 75,800.00
TOTAL PROJECT COST					\$ 388,900.00

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Engineer's Opinion of Probable Cost

Northwest Hildale Transmission Line

Project Location: Hildale City

17-Oct-23

MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 69,300.00	\$ 69,300.00
2	Traffic Control	1	LS	\$ 12,000.00	\$ 12,000.00
3	Pre-Construction DVD	1	LS	\$ 1,500.00	\$ 1,500.00
4	Dust Control & Watering	1	LS	\$ 20,000.00	\$ 20,000.00
5	Subsurface Investigation	8	HR	\$ 250.00	\$ 2,000.00
6	Restore Surface Improvements	1	LS	\$ 12,000.00	\$ 12,000.00
7	Erosion Control Compliance	2	LS	\$ 8,000.00	\$ 16,000.00
8	Construction Staking	1	LS	\$ 12,500.00	\$ 12,500.00
9	Materials Sampling & Testing	1	LS	\$ 12,000.00	\$ 12,000.00
10	Surface Restoration	32,500	SF	\$ 5.00	\$ 162,500.00
11	24" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	4,150	LF	\$ 150.00	\$ 622,500.00
12	24" Gate Valve Assembly	12	EA	\$ 9,500.00	\$ 114,000.00
13	16" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	2,350	LF	\$ 120.00	\$ 282,000.00
14	16" Gate Valve Assembly	12	EA	\$ 6,750.00	\$ 81,000.00
15	Misc. Connections, Fittings and Tie-ins	1	LS	\$ 35,000.00	\$ 35,000.00
SUBTOTAL					\$ 1,454,300.00
CONTINGENCY				20%	\$ 290,900.00
CONSTRUCTION TOTAL					\$ 1,745,200.00
INCIDENTALS					
1	Engineering Design	5.3%	LS	\$ 105,000.00	\$ 105,000.00
2	Bidding & Negotiating	0.4%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	3.7%	HR	\$ 72,700.00	\$ 72,700.00
4	Topographic & Property Survey	0.8%	EST	\$ 15,000.00	\$ 15,000.00
5	Funding and Administrative Services	0.6%	EST	\$ 12,000.00	\$ 12,000.00
6	Permitting	0.3%	EST	\$ 5,000.00	\$ 5,000.00
7	Miscellaneous Engineering Services	0.8%	EST	\$ 15,000.00	\$ 15,000.00
SUBTOTAL					\$ 232,200.00
TOTAL PROJECT COST					\$ 1,977,400.00

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Engineer's Opinion of Probable Cost

Hildale Street Line

17-Oct-23

Project Location: Colorado City

MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 13,200.00	\$ 13,200.00
2	Pre-Construction DVD	1	LS	\$ 1,500.00	\$ 1,500.00
3	Traffic Control	1	LS	\$ 18,000.00	\$ 18,000.00
4	Subsurface Investigation	4	HR	\$ 250.00	\$ 1,000.00
5	Materials Sampling & Testing	1	LS	\$ 7,500.00	\$ 7,500.00
6	Dust Control & Watering	1	LS	\$ 7,500.00	\$ 7,500.00
7	Construction Staking	1	LS	\$ 7,000.00	\$ 7,000.00
8	Erosion Control Compliance	1	LS	\$ 7,500.00	\$ 7,500.00
9	8" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	2,650	LF	\$ 65.00	\$ 172,250.00
10	8" Gate Valve Assembly	7	EA	\$ 5,000.00	\$ 33,125.00
11	Restore Surface Improvements	1	LS	\$ 8,500.00	\$ 8,500.00
SUBTOTAL					\$ 277,075.00
CONTINGENCY				20%	\$ 55,415.00
CONSTRUCTION TOTAL					\$ 332,490.00
INCIDENTALS					
1	Engineering Design	5.5%	LS	\$ 25,000.00	\$ 25,000.00
2	Bidding & Negotiating	1.7%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	4.3%	HR	\$ 19,400.00	\$ 19,400.00
4	Topographic & Property Survey	1.7%	EST	\$ 7,500.00	\$ 7,500.00
5	Funding and Administrative Services	2.2%	EST	\$ 10,000.00	\$ 10,000.00
6	Land & RoW Negotiation/Acquisition	11.0%	EST	\$ 50,000.00	\$ 50,000.00
7	Miscellaneous Engineering Services	0.6%	EST	\$ 2,500.00	\$ 2,500.00
SUBTOTAL					\$ 121,900.00
TOTAL PROJECT COST					\$ 454,390.00

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Engineer's Opinion of Probable Cost

Southwest Hildale Transmission Line
Project Location: Hildale City

17-Oct-23
MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 28,400.00	\$ 28,400.00
2	Traffic Control	1	LS	\$ 12,000.00	\$ 12,000.00
3	Pre-Construction DVD	1	LS	\$ 1,500.00	\$ 1,500.00
4	Dust Control & Watering	1	LS	\$ 20,000.00	\$ 20,000.00
5	Subsurface Investigation	8	HR	\$ 250.00	\$ 2,000.00
6	Restore Surface Improvements	1	LS	\$ 12,000.00	\$ 12,000.00
7	Erosion Control Compliance	2	LS	\$ 8,000.00	\$ 16,000.00
8	Construction Staking	1	LS	\$ 12,500.00	\$ 12,500.00
9	Materials Sampling & Testing	1	LS	\$ 12,000.00	\$ 12,000.00
10	Roadway Restoration	9,000	SF	\$ 6.00	\$ 54,000.00
11	12" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	1,900	LF	\$ 110.00	\$ 209,000.00
12	12" Gate Valve Assembly	12	EA	\$ 6,750.00	\$ 81,000.00
13	PRV and Vault	1	LS	\$ 100,000.00	\$ 100,000.00
14	Misc. Connections, Fittings and Tie-ins	1	LS	\$ 35,000.00	\$ 35,000.00
SUBTOTAL					\$ 595,400.00
				CONTINGENCY 20%	\$ 119,100.00
CONSTRUCTION TOTAL					\$ 714,500.00
INCIDENTALS					
1	Engineering Design	11.6%	LS	\$ 105,000.00	\$ 105,000.00
2	Bidding & Negotiating	0.8%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	3.3%	HR	\$ 29,800.00	\$ 29,800.00
4	Topographic & Property Survey	1.7%	EST	\$ 15,000.00	\$ 15,000.00
5	Funding and Administrative Services	1.3%	EST	\$ 12,000.00	\$ 12,000.00
6	Permitting	0.6%	EST	\$ 5,000.00	\$ 5,000.00
7	Miscellaneous Engineering Services	1.7%	EST	\$ 15,000.00	\$ 15,000.00
SUBTOTAL					\$ 189,300.00
TOTAL PROJECT COST					\$ 903,800.00

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Engineer's Opinion of Probable Cost

Transmission Line to Airport
Project Location: Colorado City

17-Oct-23
MCG/bcw

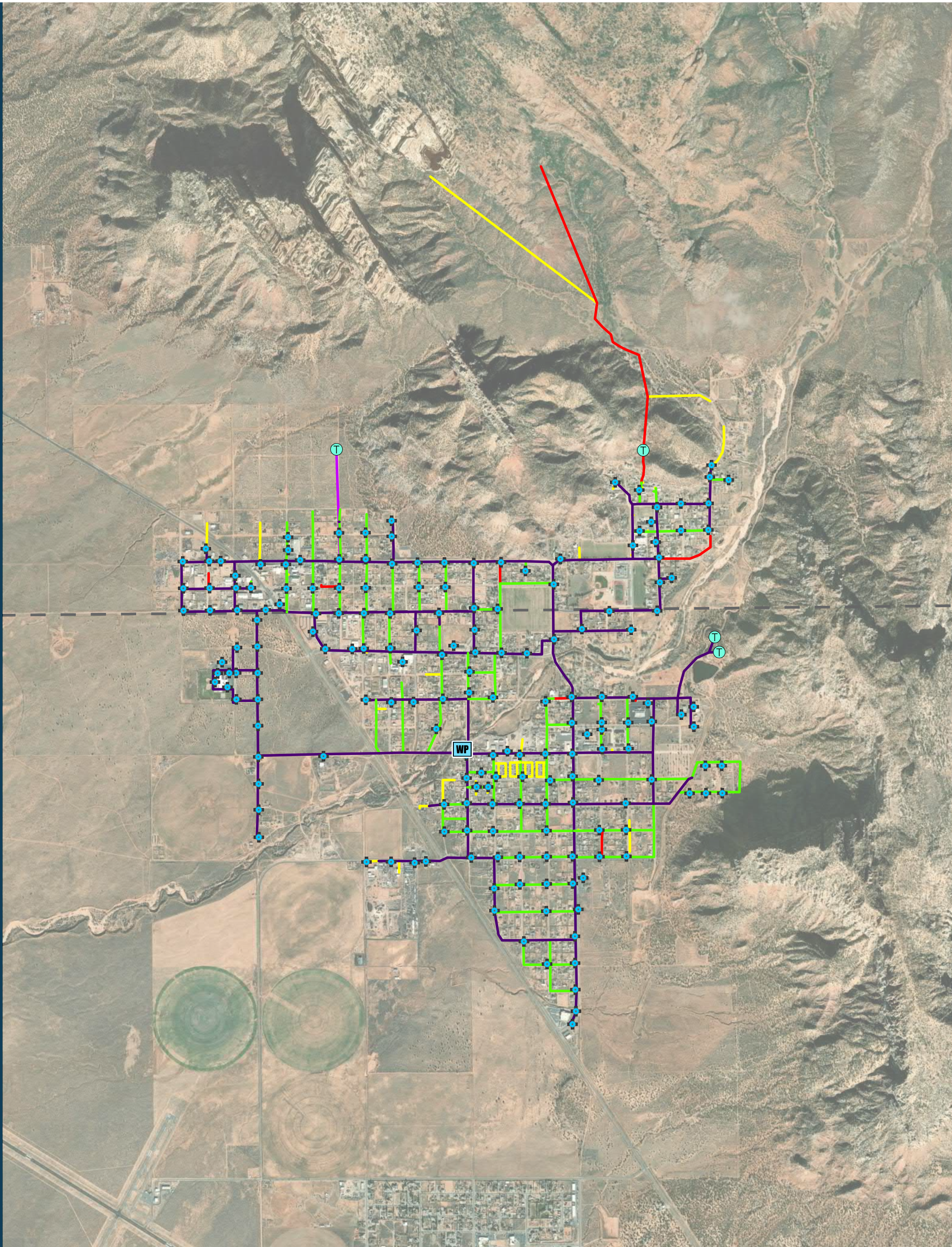
NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	5%	LS	\$ 71,600.00	\$ 71,600.00
2	Traffic Control	1	LS	\$ 12,000.00	\$ 12,000.00
3	Pre-Construction DVD	1	LS	\$ 1,500.00	\$ 1,500.00
4	Dust Control & Watering	1	LS	\$ 20,000.00	\$ 20,000.00
5	Subsurface Investigation	8	HR	\$ 250.00	\$ 2,000.00
6	Restore Surface Improvements	1	LS	\$ 12,000.00	\$ 12,000.00
7	Erosion Control Compliance	2	LS	\$ 8,000.00	\$ 16,000.00
8	Construction Staking	1	LS	\$ 12,500.00	\$ 12,500.00
9	Materials Sampling & Testing	1	LS	\$ 12,000.00	\$ 12,000.00
10	Roadway Restoration	42,750	SF	\$ 6.00	\$ 256,500.00
11	10" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	650	LF	\$ 90.00	\$ 58,500.00
12	10" Gate Valve Assembly	2	EA	\$ 5,250.00	\$ 10,500.00
13	12" PVC (C900) Line, Fitting, Tracer Wire, Bedding, & Backfill	7,900	EA	\$ 110.00	\$ 869,000.00
14	12" Gate Valve Assembly	17	EA	\$ 6,750.00	\$ 114,750.00
15	Misc. Connections, Fittings and Tie-ins	1	LS	\$ 35,000.00	\$ 35,000.00
SUBTOTAL					\$ 1,503,850.00
CONTINGENCY				20%	\$ 300,800.00
CONSTRUCTION TOTAL					\$ 1,804,650.00
INCIDENTALS					
1	Engineering Design	5.1%	LS	\$ 105,000.00	\$ 105,000.00
2	Bidding & Negotiating	0.4%	HR	\$ 7,500.00	\$ 7,500.00
3	Engineering Construction Services	3.7%	HR	\$ 75,200.00	\$ 75,200.00
4	Topographic & Property Survey	0.7%	EST	\$ 15,000.00	\$ 15,000.00
5	Funding and Administrative Services	0.6%	EST	\$ 12,000.00	\$ 12,000.00
6	Permitting	0.2%	EST	\$ 5,000.00	\$ 5,000.00
7	Miscellaneous Engineering Services	0.7%	EST	\$ 15,000.00	\$ 15,000.00
SUBTOTAL					\$ 234,700.00
TOTAL PROJECT COST					\$ 2,039,350.00

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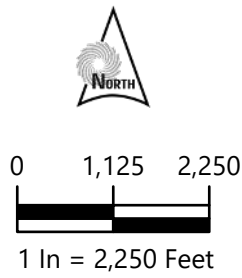
APPENDIX D

System Maps

EXISTING WATER SYSTEM



MAP LEGEND



Water Mains
2"
4"
6"
8"
12"

Water Hydrants
Water Tank
Treatment Plant

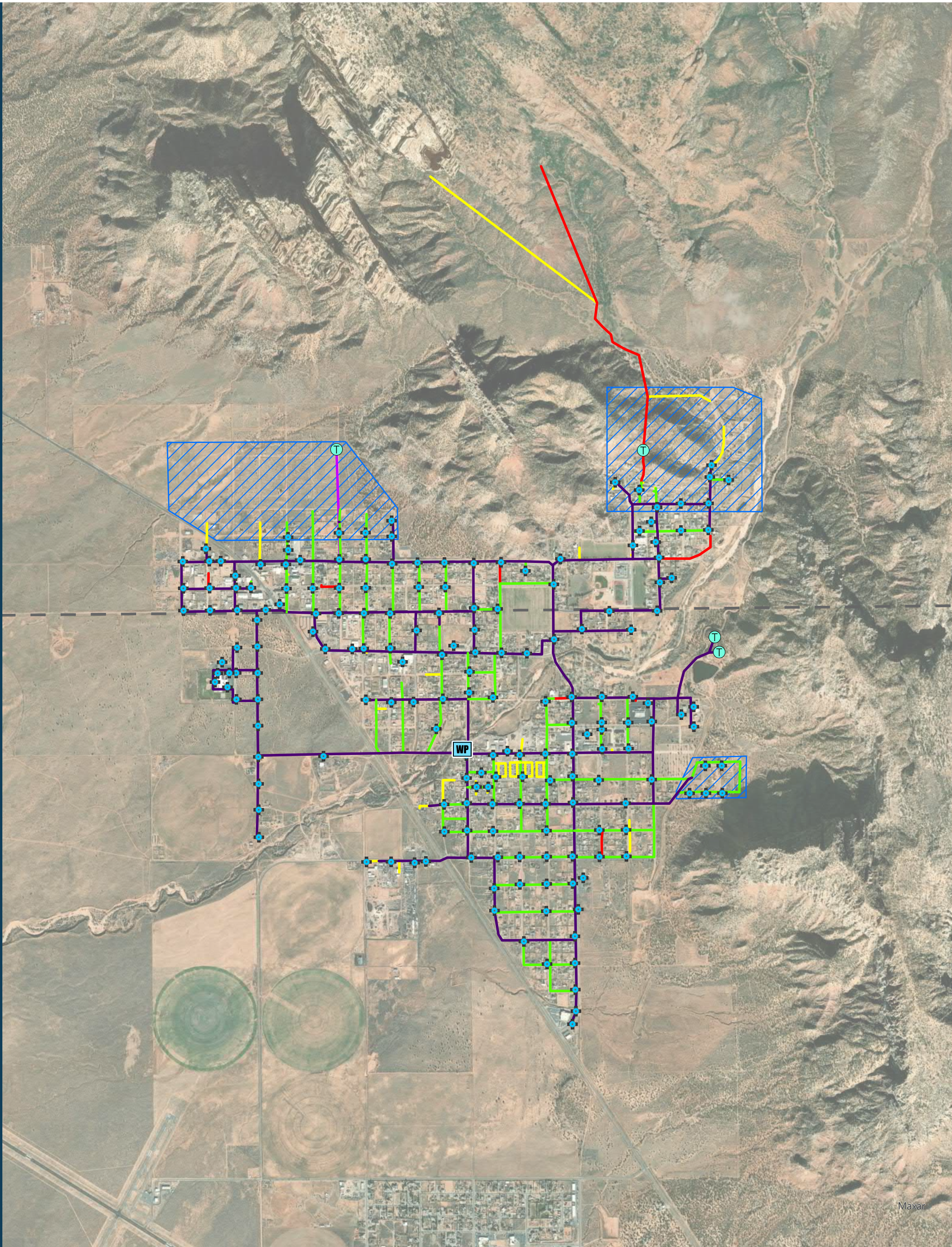
State Boundary



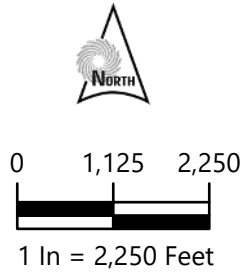
Map Date: 10.27.2023



LOW FIRE FLOW AREA



MAP LEGEND



- Water Mains
- 2"
 - 4"
 - 6"
 - 8"
 - 12"

- Water Hydrants
- Water Tank
- Treatment Plant
- Pressure Zones

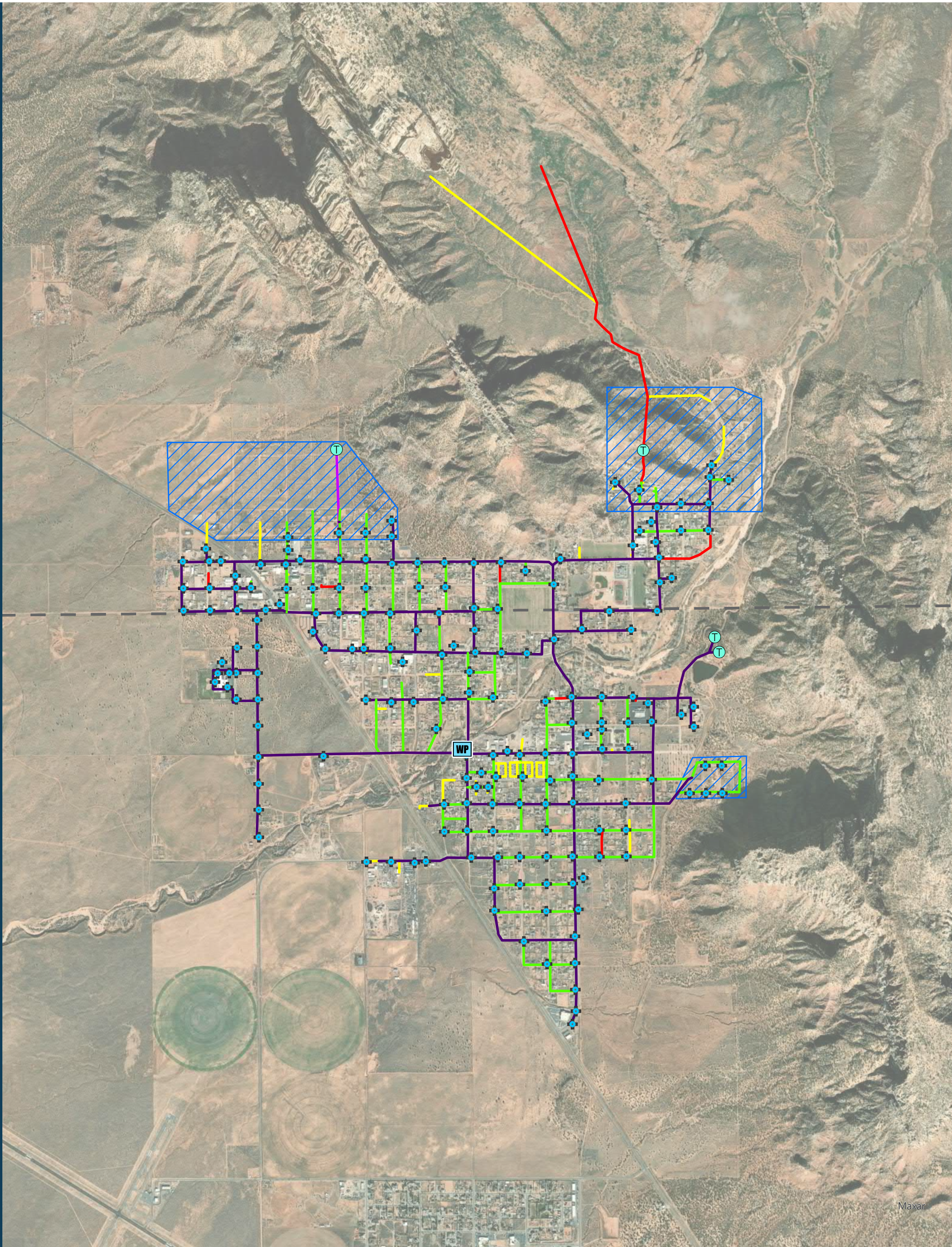
- State Boundary



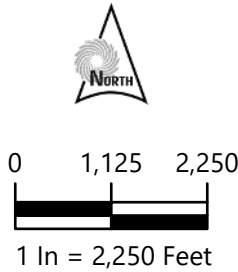
Map Date: 10.27.2023



LOW PRESSURE DURING PDD SCENARIO



MAP LEGEND



- Water Mains
- 2"
 - 4"
 - 6"
 - 8"
 - 12"

- Water Hydrants
- Water Tank
- Treatment Plant
- Pressure Zones

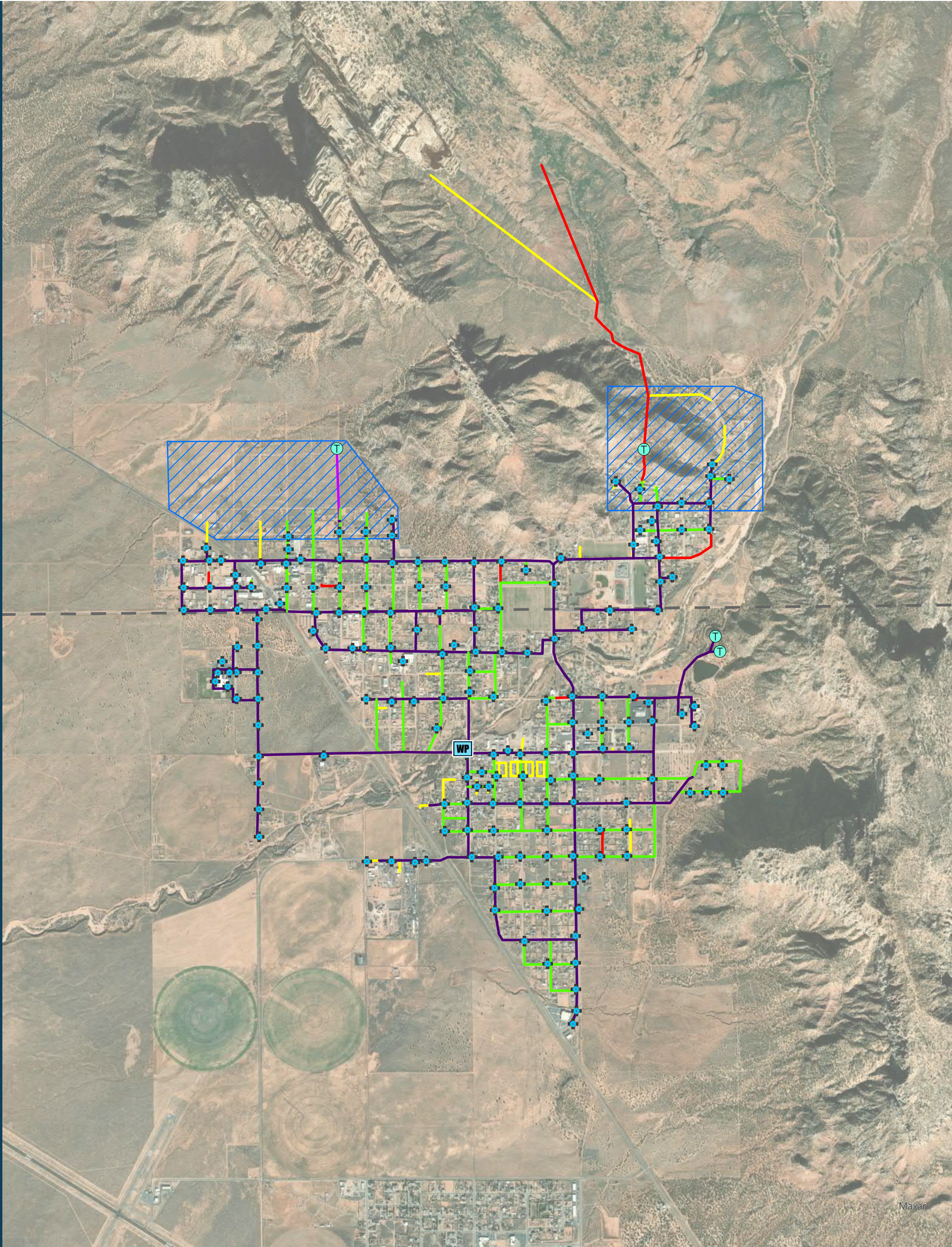
- State Boundary



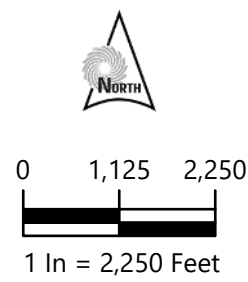
Map Date: 10.27.2023



LOW PRESSURE DURING PID SCENARIO



MAP LEGEND



- Water Mains
- 2"
 - 4"
 - 6"
 - 8"
 - 12"

- Water Hydrants
- Water Tank
- Treatment Plant
- Pressure Zones

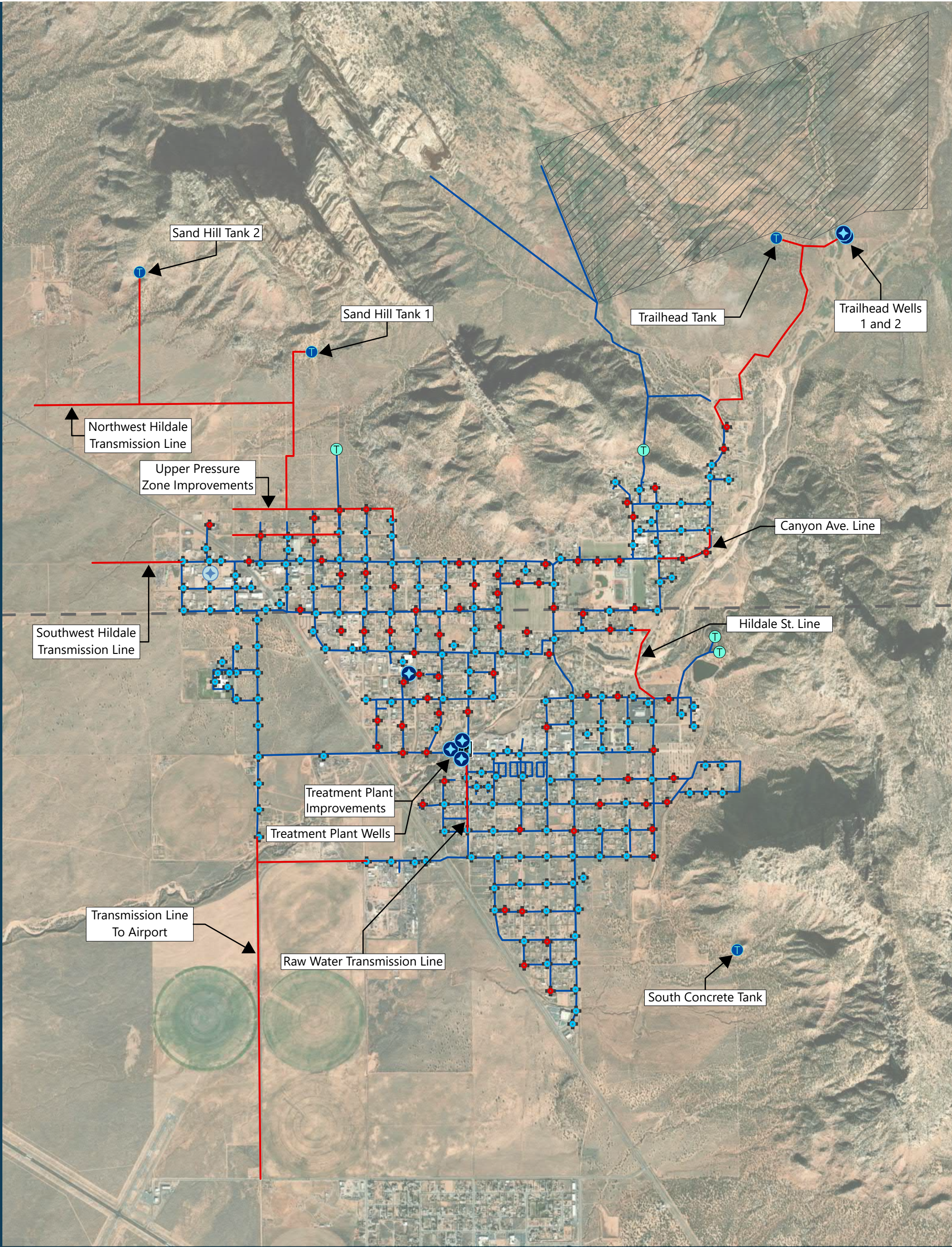
- State Boundary




Map Date: 10.27.2023



RECOMMENDED IMPROVEMENTS



MAP LEGEND


0 1,125 2,250
1 In = 2,250 Feet


Recommended Improvements

- Water Mains
- Water Hydrants
- Water Tank
- Production Well
- Hildale Ground Water Project Area

Existing Water System

- Water Mains
- Water Hydrants
- Water Tank
- Production Well
- Treatment Plant

State Boundary



Map Date: 10.27.2023

APPENDIX E

Impact Fee Analysis

Impact Fee Projects & Impact Fee Eligibility

Source Projects	Current Costs	Year	Costs w/ Inflation*	Financed Costs**	% IF EL.	IF EL. Cost	% Hildale	Hildale IF EL. Cost	% Colorado City	Colorado City IF EL. Cost
Treatment Plant Wells	\$ 1,288,700.00	2024	\$ 1,327,361	\$ 976,695	0.0%	\$ -	50%	\$ -	50%	\$ -
5 Year AZ Well Field	\$ 3,333,400.00	2026	\$ 3,642,496	\$ 2,680,212	84.3%	\$ 2,259,419	50%	\$ 1,129,709.00	50%	\$ 1,129,709.55
5 Year UT Well Field	\$ 6,923,700.00	2026	\$ 7,565,714	\$ 5,566,985	84.3%	\$ 4,692,968	50%	\$ 2,346,484.00	50%	\$ 2,346,484.07
10 Year AZ Well Field	\$ 3,809,600.00	2032	\$ 4,970,664	\$ 3,657,502	100.0%	\$ 3,657,502	50%	\$ 1,828,750.00	50%	\$ 1,828,750.76
10 Year UT Well Field	\$ 7,912,800.00	2032	\$ 10,324,409	\$ 7,596,881	100.0%	\$ 7,596,881	50%	\$ 3,798,440.00	50%	\$ 3,798,440.52
			Sub total	\$ 20,478,275		\$ 18,206,770		\$ 9,103,383		\$ 9,103,385
Storage Projects										
Sandhill Tank 1	\$ 5,938,100.00	2025	\$ 6,299,730	\$ 4,635,452	100.0%	\$ 4,635,452	70%	\$ 3,244,816.00	30%	\$ 1,390,635.54
			Sub total	\$ 4,635,452		\$ 4,635,452		\$ 3,244,816		\$ 1,390,636
Water Treatment Projects										
Raw Water Transmission Line	\$ 1,092,500.00	2024	\$ 1,125,275	\$ 827,997	0.0%	\$ -	50%	\$ -	50%	\$ -
Small Treatment Plant (1,600 gpm)	\$ 5,904,800.00	2025	\$ 6,264,402	\$ 4,609,457	100.0%	\$ 4,609,457	50%	\$ 2,304,728.00	50%	\$ 2,304,728.44
			Sub total	\$ 5,437,454		\$ 4,609,457		\$ 2,304,728		\$ 2,304,728
Distribution System Projects										
Fire Hydrant Project	\$ 1,733,500.00	2024	\$ 1,785,505	\$ 1,313,806	0.0%	\$ -	50%	\$ -	50%	\$ -
Upper Pressure Zone Improvements	\$ 846,500.00	2026	\$ 924,993	\$ 680,626	50.0%	\$ 340,313	100%	\$ 340,313.00	0%	\$ -
Canyon St. Line	\$ 388,900.00	2028	\$ 450,842	\$ 331,737	0.0%	\$ -	50%	\$ -	50%	\$ -
Northwest Hildale Transmission Line	\$ 1,977,400.00	2028	\$ 2,292,349	\$ 1,686,750	100.0%	\$ 1,686,750	100%	\$ 1,686,750.00	0%	\$ -
Hildale St. Line	\$ 454,390.00	2030	\$ 558,842	\$ 411,206	0.0%	\$ -	50%	\$ -	50%	\$ -
			Sub total	\$ 4,424,126		\$ 2,027,063		\$ 2,027,063		\$ -
Future Planning Projects										
Capital Facilities Plan and IFFP & IFA Updat	\$ 60,000	2028	\$ 69,556	\$ 79,474	100.0%	\$ 79,474	50%	\$ 39,737.00	50%	\$ 39,737.17
			Sub total	\$ 79,474		\$ 79,474		\$ 39,737		\$ 39,737
			Total	\$ 35,054,781		\$ 29,558,216	Impact Fee Amount	\$ 16,719,727	Impact Fee Amount	\$ 12,838,486
							Number ERU Start 2024	468	Number ERU Start 2024	847
							Number ERU End 2033	1,797	Number ERU End 2033	1,934
							Number New ERU	1,329	Number New ERU	1,087
							Impact Fee per ERU	\$ 12,580.00	Impact Fee per ERU	\$ 11,807.00

* Inflation is assumed at 3%

**Financed costs assume a 20-year 4% interest loan

Utility Director Memorandum

To: Eric Duthie, Hildale City Manager, Vance Barlow, Colorado City Town Manager

From: Hildale/Colorado City Utility Director, Jerald A Postema *Jerald A Postema*

Page | 1

Date: February 24, 2024

Cc: Nathan Fischer, Utility Superintendent, Sirrene Barlow, City Recorder, Shirley Zitting, Human Resources/Town Clerk

Re: **Recommendation For Utility Department Classification, Wage and Step Increase**

On January 25, 2024, at the Utility Advisory Board Regularly Scheduled Meeting at Hildale City Hall, the members reviewed and acted on the following: Recommended the Councils Approve and Adopt the Utility Department Classification, Wage and Step Increase Document and will reflect the annual Council's Approved Cost of Living Increase (See Attached Document).

By making the changes to the wage structure, the fiscal impact on the Department Budget is minimal. With the recent departure of three (3) employees over the past nine (9) months and their pay level when they departed, has left the Utility Department with an estimated \$160,000.00 in salary savings for the current FY24 budget. The three personnel who left were being paid a higher wage than the recently hired personnel, who started at a much lower wage. It is estimated the FY25 budget will realize an estimated \$55,000.00 in salary reduction compared to the FY24 Budget.

The salary savings will cover any increase in compensation for any current staff who are eligible to move into the updated Classifications and Pay Steps.

I recommend, effectively immediately, the three (3) employees currently on "acting assignment" in the Lead Worker positions, be permanently moved into those positions, and compensated within the wage, step, and requirements for the Lead Worker position. The increase in pay for the three (3) employees would have no adverse impact on the FY24 Budget.

HCC Utility Department Classifications & Steps

Pay Grade	Position Title	FLSA	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8
0-T	Utility Services Operator Trainee/Apprentice	N	\$ 19.20	\$19.87	\$20.03					
1-O	Utility Services Operator Grade 1	N	\$ 20.03	\$ 21.20	\$ 22.61	\$ 23.78	\$ 24.90	\$ 25.92	\$ 26.77	\$ 27.54
2-O	Utility Services Operator Grade 2	N	\$ 21.43	\$ 22.49	\$ 23.90	\$ 25.44	\$ 26.78	\$ 27.76	\$ 28.66	\$ 29.46
3-O	Utility Services Operator Grade 3	N	\$ 22.93	\$ 23.52	\$ 24.93	\$ 27.42	\$ 28.01	\$ 29.59	\$ 30.67	\$ 31.52
4-O	Lead Utility Services Operator	N	\$ 24.53	\$ 25.55	\$ 27.23	\$ 29.12	\$ 30.04	\$ 31.72	\$ 32.72	\$ 33.72
5E	Utility Supervisor	E	\$27.45	\$29.04	\$32.50	\$33.36	\$35.70	\$37.04	\$39.27	
6E	Utility Superintendent	E	\$39.27	\$41.23	\$43.05	\$44.90	\$45.82	\$46.82		
	updated 2/23/2024									

The above table for wage and compensation allows incentive pay for staff who study for and receive certifications in the various areas of discipline (Sewer Collections, Sewer Treatment, Water Distribution, Water Treatment, Water Production, Natural Gas, Propane Gas, Fiber) within Utility's. The Trainee/Apprentice Position is not eligible for a Grade Increase until they have successfully passed the probationary period. Any increase to a higher Grade is predicated on the employee being in good standing within the Department/City/Town with no disciplinary action over the past twelve (12) months.

This model provides a range which allows the departmental Administrator flexibility for rewarding employees based on performance, productivity and additional growth within the department and based on the annual appraisals, goal setting and job accomplishments. Based on the year and the budget it may be possible to set a maximum increase in any given year allowed by the City or Town Manager within the ranges/Steps.

Once a person is at a pay range in a category and receives additional certification and a positive appraisal, they will be eligible for promotion into the next Grade Level but the pay shall not be less or equal to the employees wage prior to the appraisal.

Hildale Council Events Calendar

MARCH 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6 Hildale City Council meeting 6pm	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21 Hildale Planning and Zoning mtg. 6pm	22	23
24	25	26	27	28 Utility Advisory Board meeting 6pm	29	30
31	April 1	April 2	April 3	April 4	April 5	April 6