

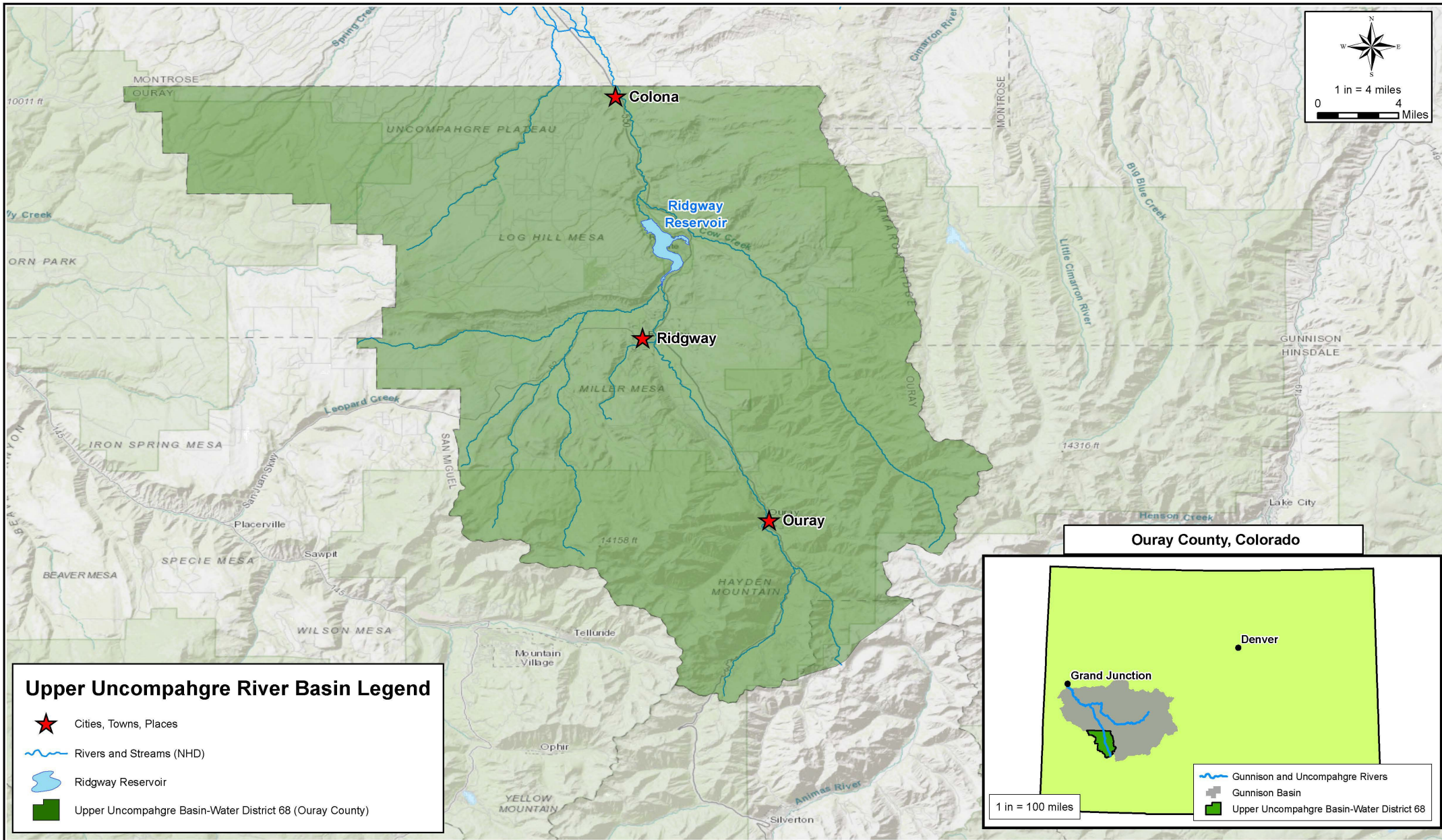
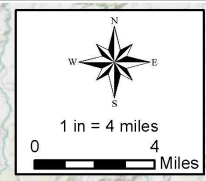


WATER PROJECT





Docket No. 2019CW3098

No-Call, Pipeline, Storage, Etc.

Leo Caselli, County Attorney






Upper Uncompahgre River Basin Legend

-  Cities, Towns, Places
-  Rivers and Streams (NHD)
-  Ridgway Reservoir
-  Upper Uncompahgre Basin-Water District 68 (Ouray County)

Ouray County, Colorado

1 in = 100 miles

-  Gunnison and Uncompahgre Rivers
-  Gunnison Basin
-  Upper Uncompahgre Basin-Water District 68

Date: 2/14/2020 Document Path: P:\151-032 Ouray County - UUB\Mapping\Stream Management Plan Maps\Map 1-UUB Location Map.mxd

User Name: boliver

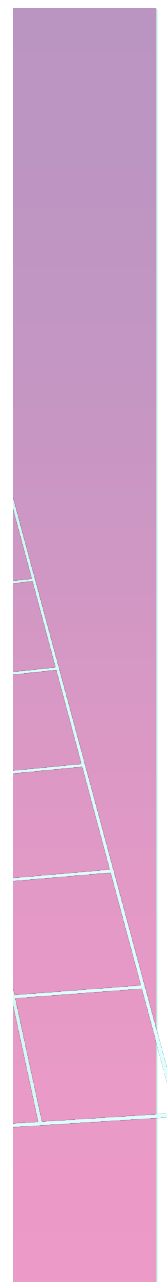
WWE
 Wright Water Engineers, Inc.
 1666 N. Main Ave., Ste C
 Durango, CO 81301
 (970) 259-7411 ph 259-8758 fx

OURAY COUNTY, COLORADO

UPPER UNCOMPAHGRE BASIN-WATER DISTRICT 68

UPPER UNCOMPAHGRE BASIN (OURAY COUNTY)

PROJECT NO.
151-032.021



ABOUT THE PROJECT



Project Components

1. No-Call Agreement
2. Cow Creek Pipeline
3. Ridgway Reservoir Storage Contract
4. Exchange Program
5. Ram's Horn Reservoir

Affected Watersheds

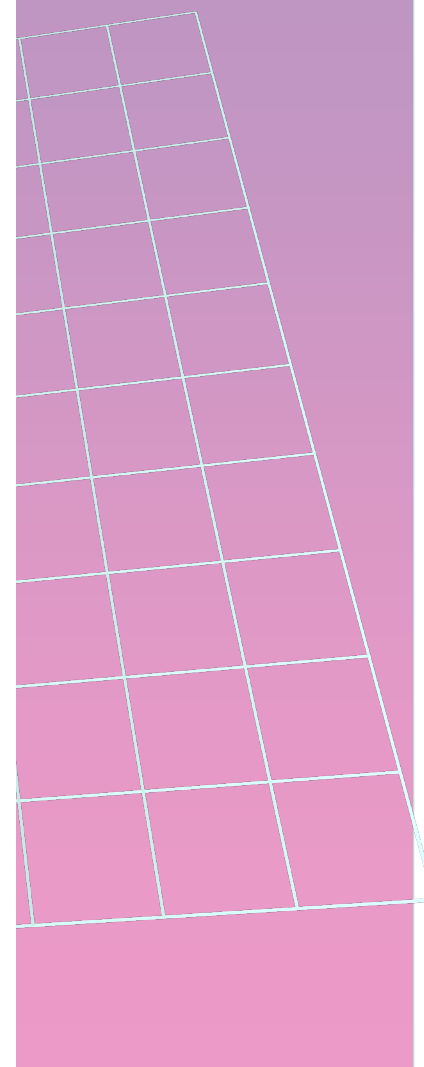
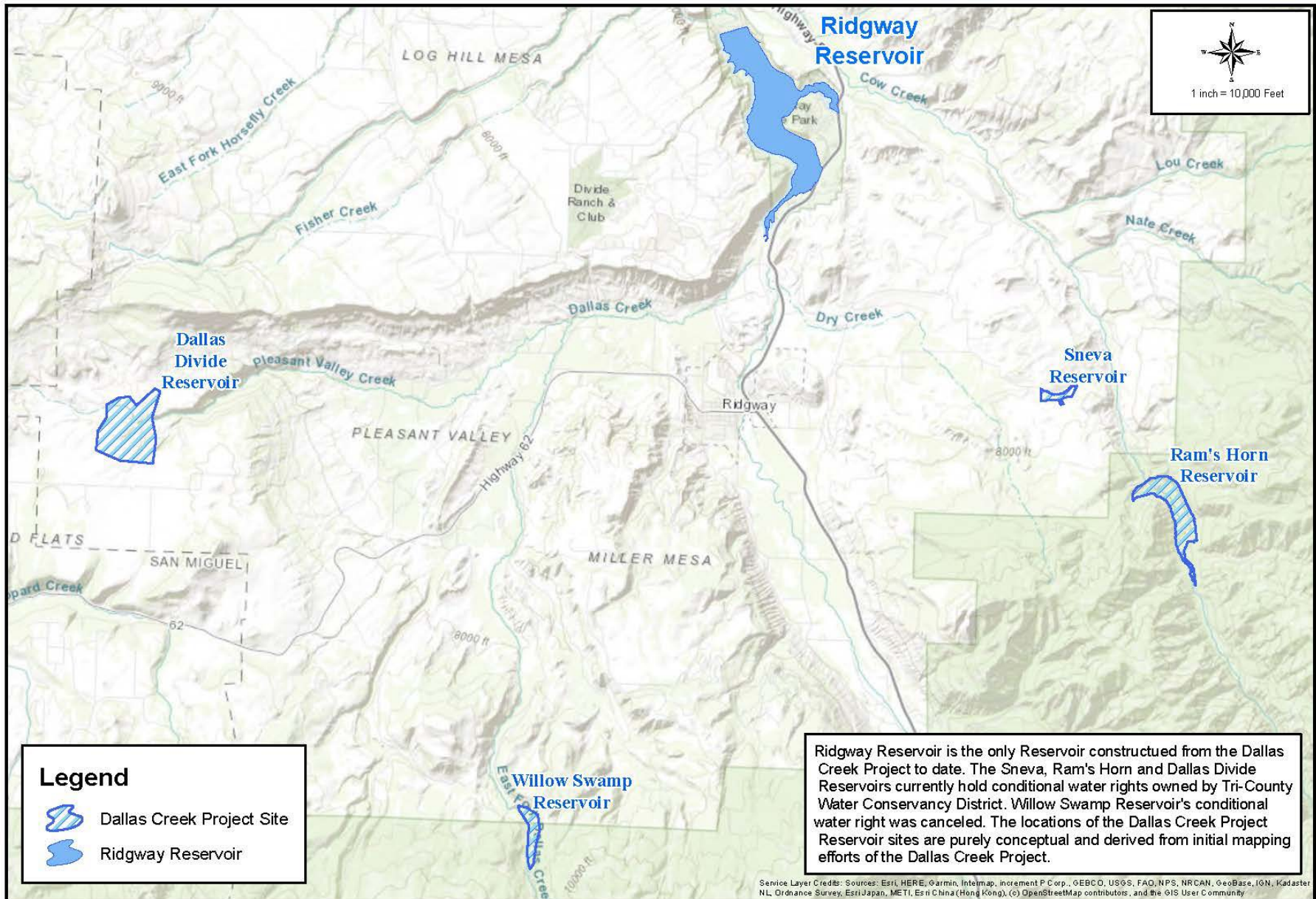
1. Lower Unc.
2. Upper Unc.
3. Dallas
4. Dallas Tributaries
5. Cow Creek

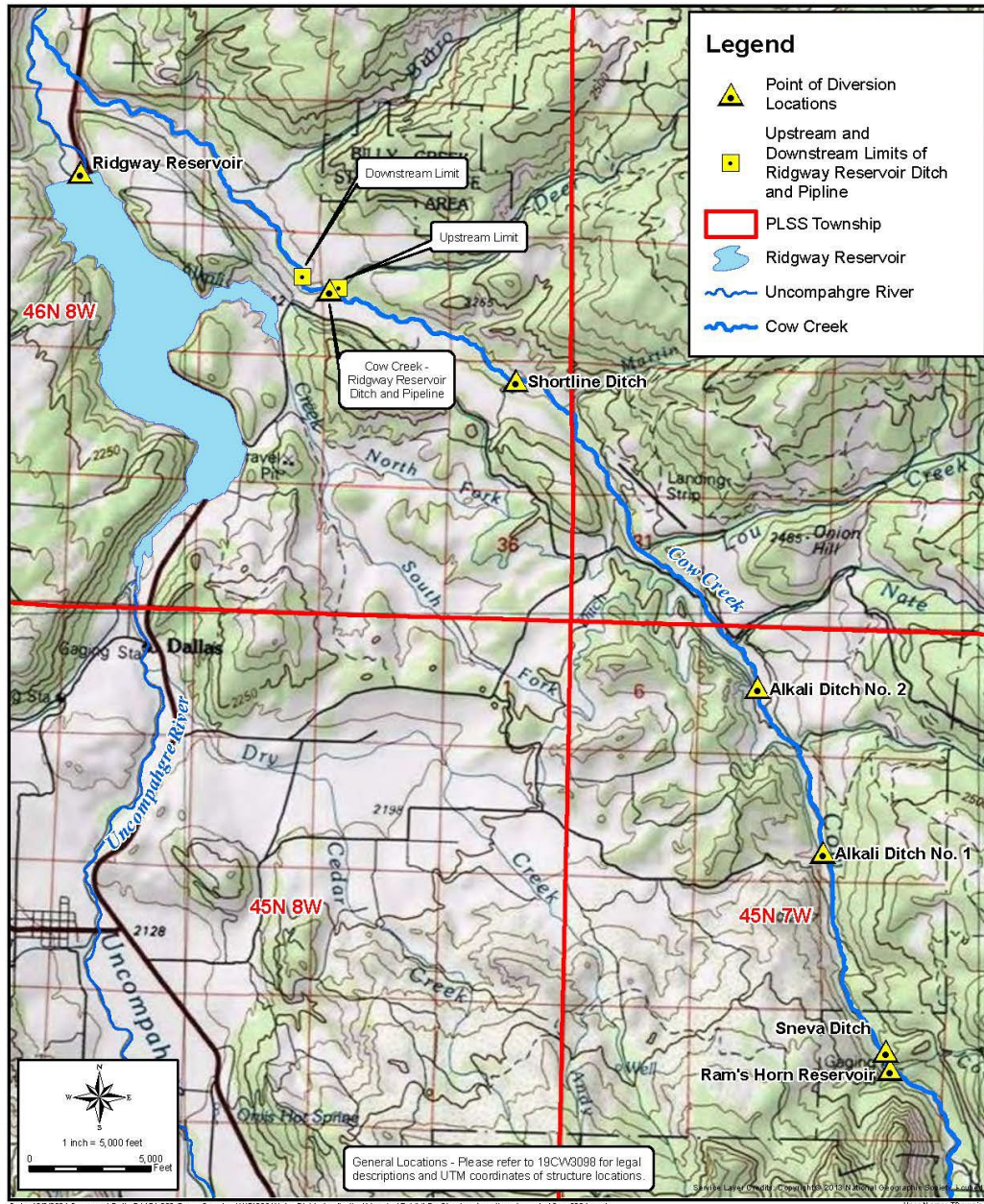
2019CW3098 Applicants

1. Ouray County
2. Tri-County
3. CO River District
4. OCWUA
5. Possibly other public entities/nonprofits in the future?

Dallas Creek Project Sites

1. Ridgway Reservoir
2. Ram's Horn Reservoir
3. Sneva Reservoir
4. Dallas Divide Reservoir
5. Willow Swamp Reservoir





PROJECT STRUCTURES



Agreement Not to Call

- Targeted towards M&D Call from Uncompahgre Valley Water Users' Association (UVWUA)
- 2002 Dry-Year Call Analysis: 400+ Calls in Ouray County from M&D Call
- Dec. 2021: Co-Applicants+ UVWUA agreed to relieve M&D call if this met: "At any time that the Applicants are forecast to deliver at least 3,000 AF of water pursuant to the 2019 right in Ridgway Reservoir from Rams Horn Reservoir, Cow Creek Pipeline to Ridgway Reservoir, or have contracted for or re-allocated 3,000 AF of water in Ridgway Reservoir, the Association agrees not to place a call on the Uncompahgre River for that season. As shown on Exhibit "A", 3,000 AF is the amount of depletion to the river that occurs above the Montrose and Delta Canal in a typical dry water year."
- April 2023: County purchased temp. federal lease to activate no-call agreement from unallocated pool, approximate \$15k per year to relieve M&D Call
- July 2023: Bureau of Reclamation entered "no-call agreement" as signing party"
- April 2028: federal lease will expire, no extensions due to 5 year term, M&D call likely to resume



Historical Calls by M&D Canal

Date	Duration	
7/14/1966	Unknown	deliveries at 70%
4/24/1972		
7/9/1976		deliveries at 60%
4/22/1977		extreme drought
8/7/1978		deliveries at 60%
7/22/1980		deliveries at 70%
5/21/1981		deliveries at 60%
6/21/1989	48 days	48 days
6/27/1990	7/16/1990	19 days
8/2/1991	8/6/1991	4 days
7/7/1994	season	116 days
7/10/1996	8/20/1996	41 days
6/26/2000	8/28/2000	63 days
4/26/2002	9/17/2002	144 days
7/8/2003	9/8/2003	70 days
5/2/2012	9/27/2012	148 days
6/26/2013	8/1/2013	36 days
5/28/2018	9/11/2018	106 days
7/6/2020	9/1/2020	57 days
5/14/2021	6/1/2021	18 days
7/9/2021	7/22/2021	13 days
6/15/2022	8/17/2022	63 days

56 years

22 seasons of calls

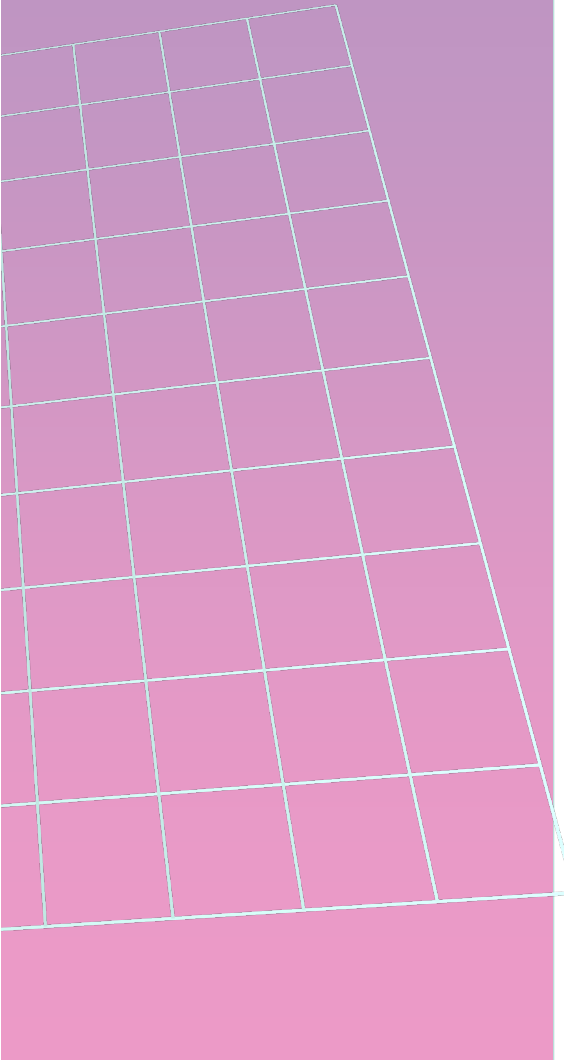
Water Rights in M&D Canal
(627 cfs total):

27 cfs – about 100 irrigation
decrees junior in Upper Unc.
128 cfs - about 80 irrigation
decrees junior in Upper Unc.
145 cfs - about 65 irrigation
decrees junior in Upper Unc.
245 cfs - about 75 irrigation
decrees junior in Upper Unc.
295 cfs - about 50 irrigation
decrees junior in Upper Unc.

CREDIT: BOB HURFORD,
DIVISION 4 ENGINEER

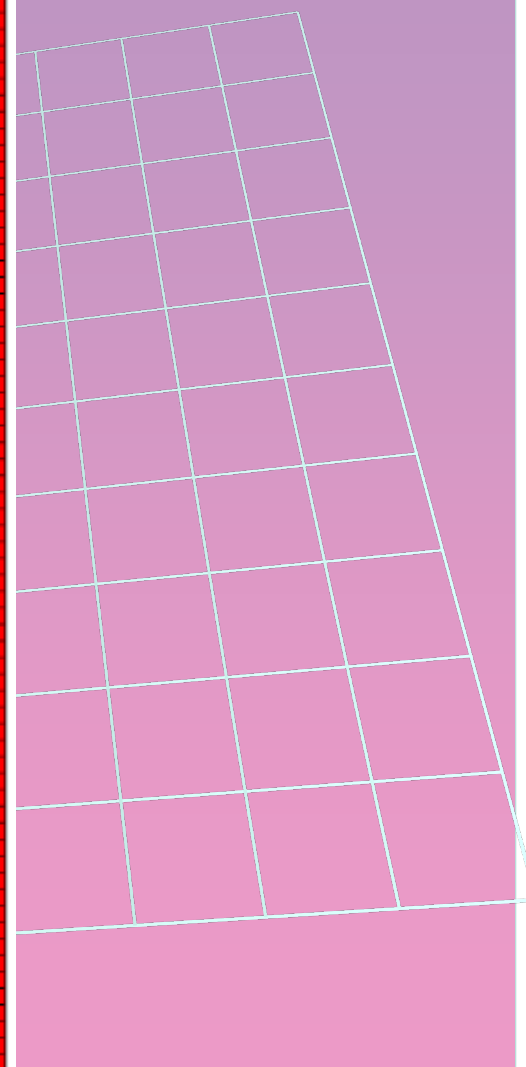
2002 Administrative Call Depth Summary for Dallas Creek

Water Right Name	WDID	Adjudication Date	Appropriation Date	Administration Number	Priority/ Case No.	Decreed Rate Absolute (cfs)	Date of Call								
							4/26 - 5/15	5/15 - 6/3	6/4 - 6/17	6/17 - 6/24	7/1 - 7/11	7/11 - 9/2			
MAYOL SISSON DITCH	8800653	5/15/1897	4/15/1877	9067.00000	9	2.5									
DOC WADE DITCH	8800559	5/15/1897	5/11/1877	9083.00000	11	9.25									
TRENCHARD DITCH	8800783	5/15/1897	5/11/1877	9083.00000	17	6.25									
REED OVERMAN DITCH	8800703	5/15/1897	5/11/1876	10348.00000	26	7.75									
VON HAGEN LATERAL DITCH	8801064	5/15/1897	10/11/1876	10501.00000		13.5									
BARKER DITCH	8800506	5/15/1897	5/11/1879	10713.00000	36	0.5									
SHERBINO DITCH	8800727	5/15/1897	5/11/1879	10713.00000	38	1.25									
HYDE SNEVA DITCH	8800613	5/15/1897	5/11/1879	10744.00000	39	3									
MIKE CLOUDGAN DITCH	8800983	5/15/1897	5/11/1879	10744.00000	59	0									
DALLAS DITCH	8800543	5/15/1897	10/11/1880	11232.00000	100	42									
DALLAS PLACER DITCH	8800545	5/15/1897	10/11/1880	11232.00000	42	0.0023									
HYDE SNEVA DITCH	8800613	5/15/1897	10/11/1880	11232.00000	42	2.6067									
P J NASH DITCH	8800684	5/15/1897	10/11/1880	11232.00000		0.521									
SCOTT MCNEIL DITCH	8800724	5/15/1897	10/11/1880	11232.00000	42	0.75									
BURKHART EDDY DITCH	8800514	5/15/1897	11/15/1880	11277.00000	41	13									
VON HAGEN DALLAS DITCH	8800770	5/15/1897	12/18/1880	11310.00000	43	11									
HENRY TRENCHARD DITCH	8800603	5/15/1897	6/11/1881	11475.00000	49	4.875									
M&D Canal		6/30/1890	12/8/1881	11665.00000	3	12.14									
M&D Canal		6/30/1890	12/7/1882	11715.00000	6	0.65									7/11
HOSNER ROWELL DITCH	8800610	5/15/1897	4/11/1882	11779.00000	57	5									
OAKES WOODRUFF EGLESTON	8800680	5/15/1897	4/11/1882	11779.00000		1.9038									
P J NASH DITCH	8800684	4/11/1887	4/11/1882	11779.00000		0.025									
SPENCE DITCH	8800742	5/15/1897	4/11/1882	11779.00000		0									
WOOD PERRY DITCH	8800731	5/15/1897	4/11/1882	11779.00000		0.0212									
EVANS DITCH	8800573	5/15/1897	5/11/1882	11809.00000	83	4.5									
MAYOL SISSON DITCH	8800653	5/15/1897	5/11/1882	11809.00000	61	1									
OAKES JEROME DITCH	8800679	5/15/1897	5/11/1882	11809.00000	58	3									
WOOD PERRY DITCH	8800781	5/15/1897	5/10/1882	11818.00000	66	3.612									
RIDGWAY DITCH	8800710	5/15/1897	6/11/1882	11840.00000	72	2									
SIBERT DITCH	8800731	5/15/1897	6/11/1882	11840.00000	72	1									
MAYOL LATERAL DITCH	8800652	5/15/1897	5/11/1883	12174.00000	78	2									
HOSNER ROWELL DITCH	8800610	5/15/1897	5/10/1883	12183.00000	79	7.5									
M&D Canal		6/30/1890	4/7/1884	12442.00000	43	17.37									
M&D Canal		6/30/1890	4/7/1884	12516.00000	48	100									
LOWER PLEASANT VALLEY	8800643	5/15/1897	5/11/1884	12540.00000		2									
OAKES JEROME DITCH	8800679	5/15/1897	5/11/1884	12540.00000	85	1.7									
BOLLIVARD DITCH	8800796	5/15/1897	6/11/1884	12571.00000	80	0.625									
BURGER DITCH	8800513	5/15/1897	6/11/1884	12571.00000	90	1									
JOHNSON DITCH NO 79	8800622	5/15/1897	6/11/1884	12571.00000	90	1									
PERKINS DITCH	8800687	5/15/1897	6/11/1884	12571.00000		0									
SCOTT MCNEIL DITCH	8800724	5/15/1897	10/15/1884	12707.00000	92	2									
DALLAS DITCH	8800543	5/15/1897	5/11/1885	12905.00000	96	11.625									
MAYOL SISSON DITCH	8800653	5/15/1897	5/11/1885	12905.00000	95	0.25									
OAKES WOODRUFF EGLESTON	8800680	5/15/1897	5/11/1885	12905.00000	97	1.625									
HYDE SNEVA DITCH	8800613	5/15/1897	5/11/1886	13270.00000	100	8.066									
P J NASH DITCH	8800684	5/15/1897	5/11/1886	13270.00000	100	0.104									
HOSNER ROWELL DITCH	8800610	5/15/1897	4/11/1887	13605.00000	105	0.375									
VON HAGEN DALLAS D LTL	8801063	5/15/1897	4/11/1887	13605.00000	103A	4.5									
CRONENBERG DITCH	8800538	5/15/1897	5/11/1887	13635.00000	106	2.25									
MAYOL LATERAL DITCH	8800652	5/15/1897	5/11/1887	13635.00000	110	3.75									
JAMES STEWART DITCH	8800619	5/15/1897	5/11/1888	14001.00000	115	0.5									
SCOTT MCNEIL DITCH	8800724	5/15/1897	5/11/1888	14001.00000	117	2									
M&D Canal		6/30/1890	11/14/1888	14198.00000	102	306.77									
DALLAS DITCH	8800543	5/15/1897	4/11/1890	14701.00000	126	9.5									
BARKER DITCH	8800506	5/15/1897	5/11/1890	14731.00000	128	0.75									
RIDGWAY DITCH	8800710	5/15/1897	6/11/1890	14762.00000	131	25									
DALLAS PLACER DITCH	8800545	5/15/1897	4/21/1892	15433.00000	133	1.5									
HOSNER ROWELL DITCH	8800610	5/15/1897	4/11/1893	15797.00000	136	0.25									
PRIVATE DITCH KETTLE	8800696	5/15/1897	4/11/1893	15797.00000	136	0									
P J NASH DITCH	8800684	5/15/1897	11/29/1893	16039.00000	137	0.5									
DALLAS PLACER DITCH	8800545	5/15/1897	4/11/1896	16693.00000	142	0.25									
SWITZERLAND DITCH	8800752	7/7/1903	8/11/1900	18475.00000	146	4									
LISCHKE DITCH FIRST POINT OF DIVERSION	8800640	6/12/1903	5/11/1879	19384.10713	36A	0.5									
LISCHKE DITCH SECOND POINT OF DIVERSION	8800641	6/12/1903	5/11/1879	19384.10713	36A	0									
LISCHKE DITCH THIRD POINT OF DIVERSION	8801520	6/12/1903	5/11/1879	19384.10713	36A	0									
LISCHKE DITCH FIRST POINT OF DIVERSION	8800640	6/12/1903	11/15/1896	19384.17121	145A	1.5									
LISCHKE DITCH SECOND POINT OF DIVERSION	8800641	6/12/1903	11/15/1896	19384.17121	145A	0									
LISCHKE DITCH THIRD POINT OF DIVERSION	8801520	6/12/1903	11/15/1896	19384.17121	145A	0									
RIDGWAY DITCH	8800711	8/2/1905	9/11/1890	19904.14762		5									
MONTGOMERY DITCH	8800667	2/11/1905	8/5/1897	20063.17385	145B	3									
SPENCE DITCH	8800742	6/5/1910	10/11/1905	20814.20362	150	19									
REYNOLDS DITCH	8800708	2/26/1920	6/11/1897	24444.17319	2	3									
MIDDLETON LATERAL DITCH	8800682	2/26/1920	5/11/1909	24444.21670		8									
MILLS LATERAL DITCH	8800685	2/26/1920	5/11/1909	24444.21670	20	0.75									
JAMES STEWART DITCH	8800619	2/26/1920	4/3/1917	24564.00000	19	2									
BETTY DITCH	8800508	5/11/1942	5/11/1876	29554.09618	1	14									
HORN DITCH	8800608	5/11/1942	5/11/1876	29554.09618	2	3									
M&D Canal				29554.09618											
DOC WADE DITCH	8800559	5/11/1942	5/11/1877	29554.09683	6	5									
TRENCHARD DITCH	8800783	5/11/1942	5/11/1877	29554.09683	10	5									
SHERBINO DITCH	8800727	5/11/1942	5/11/1879	29554.10713	15	2.75									
HYDE SNEVA DITCH	8800613	5/11/1942	10/11/1880	29554.11232	17	1									
HENRY TRENCHARD DITCH	8800603	5/11/1942	6/11/1881	29554.11475	21	4.125									
HOSNER ROWELL DITCH	8800610	5/11/1942	4/11/1882	29554.11779	22	2.32									
OAKES WOODRUFF EGLESTON	8800680	5/11/1942	4/11/1882	29554.11779	23	5.125									
OAKES JEROME DITCH	8800679	5/11/1942	5/11/1882	29554.11809	24	3									
SIBERT DITCH	8800731	5/11/1942	6/11/1882	29554.11840	27	6									
PERKINS DITCH	8800687	5/11/1942	6/11/1884	29554.12571	36	3									
ANDERSON-GIBSON DITCH	8800504	5/11/1942	5/11/1886	29554.13270	42	0									
SCOTT MCNEIL DITCH	8800724	5/11/1942	5/11/1888	29554.14001	51	4									



2002 Administrative Call Depth Summary for Dallas Creek continued

VALIANT DITCH	8800766	5/11/1942	5/11/1890	29554.14366	55	4
DALLAS DITCH	8800543	5/11/1942	11/1/1890	29554.14915	596	17.75
LISCHKE DITCH FIRST POINT OF DIVERSION	8800640	5/11/1942	11/15/1896	29554.17121	62	4
LISCHKE DITCH SECOND POINT OF DIVERSION	8800641	5/11/1942	11/15/1896	29554.17121	62	0
LISCHKE DITCH THIRD POINT OF DIVERSION	8801520	5/11/1942	11/15/1896	29554.17121	62	0
BEAR GULCH DITCH	8800507	5/11/1942	6/11/1908	29554.21336	72	5
REED OVERMAN DITCH	8800703	4/14/1961	6/11/1910	33733.22066	5	13
BROWN DITCH NO 271	8800817	4/14/1961	7/11/1920	33733.25749	10	5
HARRIS BROS DITCH NO 1	8800593	4/14/1961	6/11/1923	33733.26814	11	1.5
HARRIS BROS DITCH NO 2	8800594	4/14/1961	6/11/1923	33733.26814	12	2
MAYOL SIBSON DITCH	8800653	4/14/1961	5/11/1930	33733.29340	16	4.25
JOHNSON DITCH NO 79	8800622	4/14/1961	7/15/1933	33733.30511	17	4
BOULEVARD DITCH	8800786	4/14/1961	9/2/1936	33733.32355	19	5
HENRY TRENCHARD DITCH	8800603	4/14/1961	6/11/1939	33733.32658	20	1
HENRY TRENCHARD DITCH	8800603	4/14/1961	5/11/1942	33733.33733	21	2
SHERBINO DITCH	8800727	4/14/1961	7/11/1942	33784.00000	22	4
DOC WADE DITCH	8800559	4/14/1961	6/15/1943	34133.00000	23	4.75
TRENCHARD DITCH	8800763	4/14/1961	7/11/1944	34515.00000	24	5
MAYOL SIBSON DITCH	8800653	4/14/1961	6/11/1946	35215.00000	27	3.75
REED OVERMAN DITCH	8800703	4/14/1961	6/11/1946	35215.00000	27	5
CRONENBERG DITCH	8800538	4/14/1961	7/11/1946	35245.00000	29	10
WILLOW CREEK DITCH	8800780	4/14/1961	7/11/1946	35245.00000	28	5
RUFFE WADE DITCH	8800721	4/14/1961	7/15/1949	36355.00000	33	1
MIKE CLODDIGAN DITCH	8800663	4/14/1961	4/11/1950	36615.00000	35	0.5
MAYOL LATERAL DITCH	8800652	4/14/1961	6/11/1951	37102.00000	39	9.25
BARKER DITCH	8800506	4/14/1961	6/11/1955	38502.00000	42	4
HARRIS DITCH NO 1	8800595	4/14/1961	5/29/1957	39230.00000	50	51
HARRIS DITCH NO 2	8800596	4/14/1961	5/29/1957	39230.00000	52	0
RUFFE WADE DITCH	8800721	4/14/1961	9/6/1958	39664.00000	60	0
LONE PINE DITCH	8800642	9/13/1971	9/6/1957	40646.17385	2	0.5
HARRISON NO 1 DITCH	8800597	9/13/1971	7/20/1900	40646.18463	2	4.5
HARRISON NO 2 DITCH	8800598	9/13/1971	7/20/1900	40646.18463	4	5
CARROLL DITCH	8800519	9/13/1971	6/10/1902	40646.19153	7	2
WIG DITCH	8800779	9/13/1971	6/11/1903	40646.19509	7	2
CARROLL DITCH	8800519	9/13/1971	1/10/1920	40646.25576	10	2
SWYHART DITCH	8800753	9/13/1971	8/10/1962	41129.00000	68	2
DALLAS FEEDER CANAL	8800544	9/13/1971	2/13/1963	41316.00000	74	0
LOG HILL MESA CANAL	8801324	9/13/1971	2/13/1963	41316.00000	75	0
PLEASANT VALLEY CANAL	8800693	9/13/1971	2/13/1963	41316.00000	76	0
JUDITH D & WATER SUPPLY	8800626	9/13/1971	6/9/1963	41432.00000	82	83
MCCLELLAN DITCH & WTR S	8800834	9/13/1971	6/9/1963	41432.00000	80	81
PHILLIPS D & WTR SUPPLY	8800689	9/13/1971	6/10/1963	41433.00000	84	0.8
BOGGY D & WTR SUPPLY	8800613	9/13/1971	6/16/1963	41439.00000	86	87
PHILLIPS D & WTR SUPPLY	8800689	9/13/1971	8/3/1963	41487.00000	85	0
ANDREW DITCH & WATER SUP	8800799	9/13/1971	10/15/1969	43752.00000	213	214
DALE PL & WTR SUPPLY	8800843	9/13/1971	10/15/1969	43752.00000	223	224
ELWOOD DITCH & WTR SUP	8800569	9/13/1971	10/15/1969	43752.00000	219	220
KELLY SPG & DITCH	8800628	9/13/1971	10/15/1969	43752.00000	211	212A
MARY PL AND DITCH	8800648	9/13/1971	10/15/1969	43752.00000	221C	222C
MAX EGGER D & WTR SUPPLY	8800650	9/13/1971	10/15/1969	43752.00000	215C	216C
PAUL DITCH AND WTR SUP	8800686	9/13/1971	10/15/1969	43752.00000	217	218
RIGHTWAY DITCH & WTR SUP	8800713	9/13/1971	10/15/1969	43752.00000	225	226
W HARRIS UP PAST SPG #1D	8800954	9/13/1971	11/1/1969	43769.00000	233	0.65
WIG DITCH	8800779	9/13/1971	11/2/1969	43770.00000	236	0
AUSTIN SPRING	8800801	12/31/1972	6/11/1890	44559.14762		0.13
PASTURE SPRING DITCH	8800909	12/31/1972	5/31/1907	44559.20969		0.12
DALLAS PARK CEM DRAIN D	8800844	12/31/1972	5/21/1910	44559.22055		0.25
NORLANDER DITCH	8801037	12/31/1976	7/11/1975	46020.45837		0.25
PRESIDENTS LATERAL	8801043	12/31/1977	5/11/1885	46386.12905		5
BURKHART EDDY DITCH	8800514	12/31/1978	6/11/1950	46751.36676		2
VON HAGEN DALLAS DITCH	8800770	12/31/1978	6/11/1950	46751.36676		2
LEOPARD CR COTTONWOOD DV	8801218	12/31/1986	10/11/1877	49673.10136		3
COTTONWOOD DIVERSION OF THE LITSCHKE DITCH	8801219	12/31/1986	5/11/1879	49673.10713		2
LEWIS DIVERSION	8801278	12/31/1995	6/11/1928	52960.28641		0.5
LEWIS COLLECTION SYSTEM	8801289	12/31/1995	12/31/1973	52960.45290		2
HOSNER ROWELL DITCH	8800610	12/31/1997	4/11/1882	53691.11779		2.65
DALLAS DITCH	8800543	12/31/1997	3/11/1950	53691.36584		1.5
DALLAS PLACER DITCH	8800545	12/31/1997	5/8/1997	53819.00000		0.1
HYDE SNEVA DITCH	8800613	12/31/1998	9/30/1967	54056.43006		2
JAMES STEWART DITCH	8800619	12/31/1998	11/1/1980	54056.47787		0.5
P J NASH DITCH	8800684	12/31/1998	11/1/1980	54056.47787		0.5
DOC WADE DITCH	8800559	12/31/1998	9/30/1982	54056.48485		1.5
REED OVERMAN DITCH	8800703	12/31/1998	9/30/1982	54056.48485		1.5
MAYOL SIBSON DITCH	8800653	12/31/1998	9/30/1986	54056.49946		1.5
DECKER-WOLFORD WW DITCH	8801412	12/31/2000	6/11/1950	54786.36676		0.12
WOOD FERRY DITCH	8800781	12/31/2000	6/11/1985	54786.49460		0.15
DECKERWISE WSTWTR DITCH	8801410	12/31/2000	8/30/1992	54786.52107		1
DALLAS DITCH	8800543	12/31/2001	7/30/1998	55152.54267		0
DALLAS DITCH	8800543	12/31/2001	8/1/2000	55152.55000		0.675
CG SALUNDERS DITCH	8801427	12/31/2002	6/11/1970	55517.43981		0.38
WISE WW DITCH 1	8801441	12/31/2003	9/1/2001	55882.55396		0
WISE WW DITCH 2	8801442	12/31/2003	9/1/2001	55882.55396		0
SNEFFELS DITCH NO 1	8801039	12/31/2003	11/12/2002	55882.55833		0.5
SNEFFELS DITCH NO 2	8801065	12/31/2003	11/13/2002	55882.55834		0
SNEFFELS DITCH NO 3	8801070	12/31/2003	11/13/2002	55882.55834		0
CAMPBELL WASTEWATER DITCH	8801521	12/31/2019	4/25/2019	61841.00000		0.61



2002 Administrative Call Depth Summary for Upper Uncompahgre

Water Right Name	WROD	Adjudication Date	Appropriation Date	Administration Number	Priority/Case No.	Decreased Rate Absolute (cfs)	Date of Call									
							4/26 - 5/15	5/15 - 6/3	6/4 - 6/17	6/17 - 6/24	6/24 - 7/1	7/1 - 7/11	7/11 - 9/2			
PORTLAND DITCH	8800097	5/15/1897	5/1/1878	9618.00000	2	0.532										
MORRISON DITCH	8800071	5/15/1897	5/1/1878	9622.00000	3	0.628										
MCDONALD CUDDIGAN DITCH	8800085	5/15/1897	5/10/1878	9627.00000	6	0.62										
HOSNER BROWNARD DITCH	8800063	5/15/1897	6/1/1878	9649.00000	5, 7	3										
CHARLEY LOGAN DITCH	8800026	5/15/1897	6/1/1878	9649.00000	7	7.5										
MILLER BRANCH D ALT PT	8800070	5/15/1897	5/1/1877	9663.00000	14	0										
Q W HANLEY DITCH	8800093	5/15/1897	5/1/1877	9663.00000	12	0										
WIDOLE MILLER DITCH	8800096	5/15/1897	5/1/1877	9663.00000	15	0.13										
STRAYER DITCH	8800191	5/15/1897	5/1/1877	9663.00000	13	0.28										
WEST MILLER DITCH	8800174	5/15/1897	5/1/1877	9663.00000	16	0.256										
MILLER BRANCH DITCH	8800084	5/15/1897	5/1/1877	9663.00000	14	1										
BIGBEE DITCH	8800069	5/15/1897	5/1/1877	9663.00000	10, 12	1.26										
Q W HANLEY NO 2 DITCH	8800095	5/15/1897	5/10/1877	9662.00000	16	0										
STOUGH DITCH	8800176	5/15/1897	6/1/1877	10014.00000	19	2.26										
JOHNSON DITCH	8800021	5/15/1897	6/1/1877	10076.00000	20	2.97										
HYDE DITCH	8800012	5/15/1897	5/1/1878	10346.00000	24	0										
INDEPENDENCE DITCH	8800048	5/15/1897	5/1/1878	10346.00000	25	0										
BROWNARD NO 1 DITCH	8800012	5/15/1897	5/1/1878	10346.00000	23	0.26										
BROWNARD NO2 DITCH	8800098	5/15/1897	5/1/1878	10346.00000	27	0.628										
MOODY DITCH	8800066	5/15/1897	5/1/1878	10346.00000	26	1.75										
REWALT FLUMMER DITCH	8800107	5/15/1897	5/13/1878	10380.00000	28	0.208										
PHILLIPS DITCH	8800090	5/15/1897	5/13/1878	10380.00000	28	1										
MOODY NO1 DITCH	8800089	5/15/1897	5/15/1878	10392.00000	30	0										
BROWNARD NO 3 DITCH	8800106	5/15/1897	5/15/1878	10392.00000	29	0.38										
MCDONALD DITCH	8800096	5/15/1897	10/1/1878	10621.00000	32	2.28										
SMITH DITCH	8800137	5/15/1897	4/1/1879	10683.00000	0	0.88										
FLUMMER D NOS 1 & 2	8800094	5/15/1897	4/1/1879	10683.00000	34	0.75										
REWALT DITCH	8800106	5/15/1897	5/1/1879	10713.00000	37	0.26										
PARK DITCH	8800095	5/15/1897	5/1/1881	11444.00000	46	6										
WEHAWKEN CREEK SPRING & PIPELINE & NEW RESERVOIR	8800173	1/26/1904	10/1/1881	11567.00000	1	0										
MSD Canal																
KEYSTONE DITCH	8800068	5/15/1897	6/1/1882	11840.00000	70	0										
STANTON DITCH	8800147	5/15/1897	6/1/1882	11840.00000	69	1.26										
RODWAY DITCH	8800111	5/15/1897	6/1/1882	11840.00000	72	2										
COTTONWOOD DITCH	8800036	5/15/1897	4/1/1883	12740.00000	75	0										
MSD Canal																
CHIPITA CUTLER DITCH	8800027	5/15/1897	4/1/1884	12618.00000	48	100										
JACKSON DITCH	8800017	5/15/1897	6/1/1887	13686.00000	0	0										
MSD Canal																
JONES DITCH	8800026	5/15/1897	11/14/1888	14196.00000	102	306.77										
WEHAWKEN CREEK SPRING & PIPELINE & NEW RESERVOIR	8800174	1/26/1904	7/1/1888	14427.00000	2	3.816										
TIDWELL DITCH	8800198	5/15/1897	4/15/1890	14715.00000	127	0.375										
ISRAEL DITCH	8800047	2/1/1905	5/15/1890	20063.11093	40A	0										
CEDAR CREEK DITCH	8800022	2/1/1905	1/1/1890	20063.14611	124A	0.5										
CEDAR CREEK DITCH	8801090	2/1/1905	1/1/1890	20063.14611	124A	0.5										
PACKER DITCH	8800059	2/1/1905	6/21/1890	20063.14688	134B	0										
WEBER DITCH	8800079	2/1/1905	9/21/1890	20063.14688	134B	0.26										
WARD DITCH	8800171	6/19/1905	5/15/1897	20130.17332	144A	0.3016										
HILDRETH HOPKINS DITCH	8800006	2/29/1900	6/1/1901	24444.18779	4	0										
ORVIS DITCH	8800007	2/29/1900	5/1/1904	24444.19844	6	4										
MIDDLETON LATERAL DITCH	8800092	2/29/1900	5/1/1905	24444.21670	8	0										
HUGHES LAKE DITCH	8800011	2/29/1900	7/8/1911	24444.22490	15	0.496										
DRY CREEK DITCH	8800093	2/29/1900	8/21/1911	24444.22622	16	1.6										
HEATH DITCH	8800002	6/9/1904	3/21/1890	29623.14671	141A	1.126										
LENORE DITCH	8800035	6/9/1904	1/1/1922	26208.00000	21A, 23A	3										
RADIUM DITCH AND PIPE LINE NO. 222 AP #1	8801285	6/19/1926	7/14/1877	27194.10057	0	0										
RADIUM DITCH AND PIPE LINE NO. 222 AP #2	8801281	6/19/1926	7/14/1877	27194.10057	0	0										
RADIUM DITCH & PIPE LINE NO. 222	8800102	6/19/1926	7/14/1877	27194.10057	0	0										
CHURCH DITCH NO.1	8800028	6/19/1926	4/6/1895	27194.12683	2	0										
CHURCH DITCH NO.2	8800029	6/19/1926	4/6/1895	27194.12683	2	1										
WRAFFT DITCH	8800032	12/1/1930	1/1/1919.3	27628.23332	146C	1.5										
MSD Canal																
WEST PHILLIPS DITCH	8800175	5/1/1942	6/10/1878	29584.09636	5	2										
STANTON SLOUGH DITCH	8800148	5/1/1942	5/13/1878	29584.10296	13	2.5										
ALDER DITCH	8800000	5/1/1942	5/1/1890	29584.11079	16	2										
GIBSON DITCH	8800087	5/1/1942	10/15/1884	29584.12707	37	10										
BRICKSON DITCH	8800070	5/1/1942	6/28/1887	29584.13693	50	4										
KEYSTONE FEEDER DITCH	8800030	5/1/1942	6/1/1889	29584.14397	56	2										
GLACIER D & WATER RIGHT	8800081	5/1/1942	4/21/1895	29584.15973	6	41										
CAMP BIRD DITCH RIGHT	8800018	5/1/1942	6/1/1891	29584.17426	0	0										
POCAHONTAS WTR RIGHT	8800095	5/1/1942	10/27/1898	29584.17632	10	0										
DEADWOOD WATER RIGHT	8800084	5/1/1942	6/19/1901	29584.18797	11	0										
STADLER-THARP DITCH	8800146	5/1/1942	6/1/1917	29584.24623	75A	0										
SYRACUSE DITCH	8800002	5/1/1942	6/26/1924	29584.27298	14	0.5										
MINERAL FARM WTR P-L	8800099	1/1/1926	3/13/1900	31390.00000	17	0.26										
CHARLES DITCH	8800025	4/14/1961	6/1/1912	33733.22797	8	1.5										
FISHER DEVELOPED DITCH	8800076	4/14/1961	5/15/1945	35196.00000	25	1.5										
FISHER DRAIN DITCH	8800076	4/14/1961	5/15/1947	35663.00000	30, 30C	0.5										
PEROTTI DITCH A PIPELINE	8800098	4/14/1961	4/1/1950	36815.00000	34	0.126										
TRUETT DITCH	8800154	4/14/1961	7/8/1955	36826.00000	43	6.75										
SLAFFER DITCH	8800136	4/14/1961	6/1/1955	36842.00000	58, 59	1										
CASBY DITCH	8800017	4/14/1961	6/21/1955	36842.00000	61	0										
GILBERT WELL	8800009	1/23/1972	5/1/1960	40298.00000	0	0.0667										
ZENA NO 2 SPRING	8800071	9/13/1971	1/19/1914	40646.23364	9	0.15										
DISMANT SPG NO 7 P	8800056	9/13/1971	6/1/1945	40646.36027	27	1.8										
COYOTE DITCH	8800037	9/13/1971	1/21/1955	40646.40190	52, 53	3										
GENEVA OUTLET CANAL	8800139	9/13/1971	2/13/1963	41316.00000	77	0										
MIDDLETON D & WTR SUPPLY	8800081	9/13/1971	6/21/1964	41791.00000	89, 90	0.15										
WAYLAND D & WTR SUPPLY	8800172	9/13/1971	6/26/1964	41800.00000	91, 92	0.15										
LULU DITCH & WTR SUPPLY	8800044	9/13/1971	7/1/1964	41820.00000	93	0.06										
KINTON D & WTR SUPPLY	8800031	9/13/1971	7/21/1964	41826.00000	94, 95	0.26										
L BROWN D & WTR SUPPLY	8800033	9/13/1971	7/26/1964	41842.00000	96, 97	2										
FIDMILL D & WTR SUPPLY	8801033	9/13/1971	6/7/1964	41857.00000	98, 99	1.9										
POISSON D & WTR SUPPLY	8800096	9/13/1971	9/21/1964	41884.00000	100, 101	0										
BELL STAR DITCH AND WATER SUPPLY	8800005	9/13/1971	6/18/1964	41890.00000	102	0.5										
UNIONTON D & WTR SPLY	8800015	9/13/1971	7/26/1965	42213.00000	114, 115</											

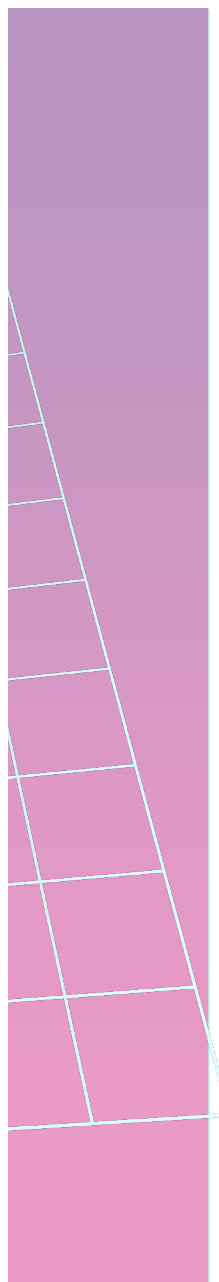
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 Summary for
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 continued

MOONSHED D.A.WTR SUPPLY	8800670	9/13/1971	10/30/1985	42300.00000	124, 125	0	0.53
SILVERTREE DITCH AND WATER SUPPLY	8800735	9/13/1971	11/8/1985	42313.00000	127, 128	0	0
BOUCHER D & WTR SUPPLY	8800814	9/13/1971	8/10/1988	42500.00000	182, 183	0	0
TOMS P & WATER SUPPLY	8800781	9/13/1971	8/23/1988	42503.00000	188, 189	0	0
WHITEHOUSE D.A.WTR SUP	8800661	9/13/1971	8/23/1988	42503.00000	188, 187	0	0
SCHEY DITCH	8800732	9/13/1971	11/17/1988	42880.00000	171	1.2	1.2
MCCARTHY DITCH	8800854	9/13/1971	8/1/1987	42886.00000	173, 174	1	1
ROHLF'S D & WTR SUPPLY	8800718	9/13/1971	8/18/1987	42900.00000	177, 178	0	0.48
BULLINGTON SPG #5 DITCH	8800823	9/13/1971	11/15/1987	43052.00000	192	0	0.2
FULLBRIGHT SPG & DITCH	8800842	9/13/1971	7/1/1988	43081.00000	200	0	0.21
ROARING GULCH D & WTR SU	8800714	9/13/1971	8/15/1988	43326.00000	201, 202	0	0.5
DALE FL & WTR SUPPLY	8800840	9/13/1971	10/15/1989	43752.00000	223, 224	0	0
KELLY SPG & DITCH	8800828	9/13/1971	10/15/1989	43752.00000	211, 212A	0	0.8
W HARRIS SPG NOS D	8800894	9/13/1971	11/1/1989	43789.00000	229	0	0
W HARRIS UP PAST SPG #3D	8800886	9/13/1971	11/1/1989	43789.00000	234, 235	0	0
W HARRIS SEQ NO4 D	8800885	9/13/1971	11/1/1989	43789.00000	231	0	0.25
W HARRIS UP PAST SPG #1D	8800884	9/13/1971	11/1/1989	43789.00000	233	0	0.88
W HARRIS SO SPG D	8800883	9/13/1971	11/1/1989	43789.00000	228	0	0.75
GOLDEN DITCH	8800882	12/31/1971	1/1/1910	43829.21915	0	0	0.5
CHALET POND	8800891	12/31/1971	5/7/1971	44480.44321	0	0	0
NORLANDER DITCH	8801037	12/31/1978	7/1/1978	48003.48037	0	0	0.25
RED CANYON DITCH	8801046	12/31/1977	8/1/1989	48388.43818	0	1	1
ABBOTT DRAIN DITCH DMV	8801082	12/31/1977	8/1/1972	48388.44712	0	0	0.033
PEROTTI DITCH NO1&2 ALT	8801041	12/31/1980	10/15/1881	47481.11811	0	5	5
MEADOW DITCH	8801026	12/31/1980	12/1/1900	47481.18597	0	0	0
WALDRUM DITCH	8801088	12/31/1980	8/15/1983	47548.00000	0	0	0.1
SILVER EAGLE DITCH NO1	8801080	12/31/1981	2/1/1981	47878.00000	0	0	0
RALSTON CR DITCH & FL	8801143	12/31/1982	10/1/1981	48712.48121	0	0	0
WALCHLE DIVERSION #1	8801152	12/31/1983	11/30/1894	48877.18408	0	4	4
MANKEY SPRING NOS	8801116	12/31/1983	8/1/1978	48877.48173	0	0	0.25
MULLINS DITCH	8801122	12/31/1983	12/31/1983	48902.00000	0	1	1
GIBSON DITCH SYSTEM #2	8801335	12/31/1984	12/31/1982	48942.48977	0	0	0
GIBSON DITCH SYSTEM #3	8801336	12/31/1984	12/31/1982	48942.48977	0	0	0
GIBSON DITCH SYSTEM #1	8801106	12/31/1984	12/31/1982	48942.48977	0	2.5	2.5
CIRCLE M HEAT DITCH	8801094	12/31/1984	3/23/1984	49005.00000	0	0	0
OXD DRAINAGE DITCH NO1	8801130	12/31/1984	5/1/1984	49084.00000	0	1.08	1.08
MARIE DITCH	8801115	12/31/1988	7/30/1988	49884.00000	0	0	0
IPC NORTH & SOUTH DIV	8801256	12/31/1987	8/1/1975	50038.49907	0	0	0
WILSON DITCH #2	8801277	12/31/1989	2/8/1975	50789.49992	0	1.5	1.5
WILSON DITCH #1	8801229	12/31/1989	2/8/1975	50789.49992	0	3.5	3.5
KENDRICK DITCH NO 1	8801248	12/31/1989	7/8/1982	52055.00000	0	0	0.022
MANLEY DITCH	8801287	12/31/1984	8/1/1984	52747.00000	0	0	0
AMERICAN GOLD DITCH	8801286	12/31/1984	8/2/1984	52809.00000	0	0	0.3
LEWIS COLLECTION SYSTEM	8801289	12/31/1985	12/31/1973	52980.48290	0	2	2
SMITH-BROWN DITCH	8801283	12/31/1985	4/14/1985	53084.00000	0	0	0.25
SLR POND PARK DITCH ENL	8801351	12/31/1988	8/30/1988	53325.49854	0	0	0.08
TURNER DITCH	8801455	12/31/1988	8/22/1988	54229.00000	0	0	0
HALLS WASTE WATER DITCH	8801421	12/31/2000	8/1/1981	54788.37041	0	0	0.511
COTTONWOOD CREEK DITCH	8801415	12/31/2000	8/1/2000	55000.00000	0	0	0.875
ORVIS TAILWATER DITCH DIV 2	8801446	12/31/2001	4/15/1983	55152.37725	0	0	0
ORVIS TAILWATER DITCH DIV 1	8801444	12/31/2001	4/15/1983	55152.37725	0	0	2.2
BILLINGS WW DITCH	8801247	12/31/2001	8/1/2001	55385.00000	0	0	0.325
MOLLY WASTEWATER DITCH	8801448	12/31/2002	4/15/1983	55517.37725	0	0	2
SQUIRREL FLATS DITCH	8801428	12/31/2002	7/18/2002	55714.00000	0	0	0
SHINING MTN PD FEEDER DITCH	8801488	12/31/2003	4/30/2000	55882.54807	0	0	0.1
KETTLE GULCH SLOUGH DIVERSION NO. 2	8801485	12/31/2003	4/30/2002	55882.54837	0	0	0.117
KETTLE GULCH SLOUGH DIVERSION NO. 1	8801484	12/31/2003	4/30/2002	55882.54837	0	0	0.175
MANAGOL EXCH BLEACH	8801487	12/31/2003	12/22/2003	56238.00000	0	0	0
ROSETTI LOWER STOCK DITCH	8801479	12/31/2004	2/23/2004	56298.00000	0	0	0
BRADS DITCH	8801018	12/31/2004	8/24/2004	56484.00000	0	0	0
CLARKSON POND DIV	8801470	12/31/2008	10/1/2005	58878.58887	0	0	0.11
CAROL DIVERSION	8801370	12/31/2009	7/28/1983	58874.52439	0	0	0.43
LOWER RUN WW DITCH	8801489	12/31/2011	8/1/2008	58804.57130	0	2	2
WEHAWKEN CREEK SPRING & PIPELINE & NEW RES. EX	8801514	12/31/2013	12/30/2013	58889.00000	0	0	0
S3 WASTEWATER DITCH	8801502	12/31/2014	5/15/2013	58900.59870	0	1	1
T.B. BOX DITCH	8801285	12/31/2017	9/5/2018	60968.60879	0	0	0

2002 Administrative Call Depth Summary for Cow Creek

Cow Creek 2002 Call Analysis
Ouray County

Water Right Name	WRIID	Adjudication Date	Appropriation Date	Administration Number	Priority/Case No.	Decreed Rate Absolute (cfs)	Date of Call									
							4/26 - 5/15	5/15 - 6/3	6/3 - 6/17	6/17 - 6/24	6/24 - 7/1	7/1 - 7/11	7/11 - 8/2			
BULL FLATS DITCH	0001300	5/15/1997	3/1/1991	11303.00000	44	0										
NATE CREEK NO.1 DITCH	0000673	5/15/1997	3/1/1991	11303.00000	44	2.25										
CHAFFEE DITCH	0000533	5/15/1997	3/1/1991	11303.00000	45	1.684										
SNEVA DITCH	0000730	5/15/1997	10/15/1991	11811.00000	54	21										
M&D Canal		6/30/1990	12/8/1991	11885.00000	3	12.14									7/1	7/11
M&D Canal		6/30/1990	10/7/1992	11715.00000	6	0.85										
PRIVATE DITCH STEALEY	0000701	5/15/1997	4/30/1992	11808.00000	59	2.5										
DAVIS DITCH	0000506	5/15/1997	5/1/1992	11809.00000	64	4										
CHAFFEE DITCH	0000523	5/15/1997	5/1/1992	11809.00000	65	0										
EAST SIDE DITCH	0000585	5/15/1997	5/1/1992	11809.00000		0										
HAYES LEAGUE DITCH	0000601	5/15/1997	5/1/1992	11809.00000	65	0.0007										
JOLLY DITCH	0000624	5/15/1997	5/1/1992	11809.00000		1										
PRIVATE DITCH SHAVEN	0000700	5/15/1997	5/1/1992	11809.00000	65	0.5										
SOL TEAGUE D NEW POINT	0001240	5/15/1997	5/1/1992	11809.00000	65	0										
SOL TEAGUE DITCH	0000741	5/15/1997	5/1/1992	11809.00000	65	3										
LEW CREEK DITCH	0000637	5/15/1997	6/1/1992	11840.00000		3.125										
ALKALI DITCH D NO 80	0000501	5/15/1997	6/1/1992	11901.00000		0										
ALKALI NO.3 DITCH	0000502	5/15/1997	6/1/1992	11901.00000		4										
MARTIN DITCH	0000647	5/15/1997	5/1/1993	12174.00000	77	2										
SHORTLINE D COW CREEK	0000739	5/15/1997	5/1/1993	12174.00000	77	0										
WEST SIDE DITCH	0000776	5/15/1997	5/1/1993	12174.00000	77	0										
THOMPSON DITCH	0000757	5/15/1997	7/31/1993	12238.00000	79A	1										
TAFT DITCH	0000754	5/15/1997	7/31/1993	12238.00000	79B	0.0025										
M&D Canal		6/30/1990	4/7/1994	12442.00000	43	17.37							6/24			
M&D Canal		6/30/1990	4/7/1994	12515.00000	48	100						5/17				
WHITE DITCH	0000775	5/15/1997	5/15/1994	12555.00000	84A	1	4/25									
OWL CREEK DITCH	0000683	5/15/1997	5/20/1994	12559.00000	85, 86	5.075										
STEALEY OWL CREEK DITCH	0000746	5/15/1997	5/20/1994	12559.00000		2.25										
UPPER OWL CREEK DITCH	0001307	5/15/1997	5/20/1994	12559.00000	86	0										
EAST SIDE DITCH	0000605	5/15/1997	5/1/1994	12571.00000	88	0										
JOLLY DITCH	0000624	5/15/1997	6/1/1994	12571.00000	88	2										
ALKALI DITCH D NO 80	0000501	5/15/1997	10/15/1994	12707.00000	91	6.6										
MARTIN DITCH	0000647	5/15/1997	6/25/1995	13325.00000	101	3										
SHORTLINE D COW CREEK	0000739	5/15/1997	6/25/1995	13325.00000	101	2										
NATE CREEK NO.2 DITCH	0000674	5/15/1997	3/1/1997	13545.00000	102	4.125										
ALKALI DITCH D NO 80	0000501	5/15/1997	4/1/1997	13625.00000	104	6.4										
EAST SIDE DITCH	0000605	5/15/1997	5/1/1997	13625.00000	107A	3										
JOLLY DITCH	0000624	5/15/1997	5/1/1997	13625.00000	107A	1										
ROSIE BUD DITCH	0000719	5/15/1997	5/1/1997	13625.00000	107	3.625										
HAY MEADOW NO.3 DITCH	0000995	7/13/1993	5/1/1998	14001.00000	84D	0.5										
M&D Canal		6/30/1990	11/14/1998	14158.00000	103	306.77					5/15					
ALKALI DITCH D NO 80	0000501	5/15/1997	4/1/1998	14335.00000	118	2.5										
ALKALI NO.3 DITCH	0000502	5/15/1997	4/1/1998	14335.00000	118	8.5										
SHORTLINE D COW CREEK	0000739	5/15/1997	4/2/1999	14337.00000	121	4										
TAYLOR DITCH	0000752	5/15/1997	6/1/1999	14357.00000	124	4										
ALKALI DITCH D NO 80	0000501	5/15/1997	10/15/1999	14633.00000	118, 125	17.5										
SNEVA DITCH	0000730	5/15/1997	10/15/1999	14633.00000		1.5										
THOMPSON DITCH	0000757	5/15/1997	7/15/1991	15171.00000	132	7										
ALKALI NO.3 DITCH	0000502	5/15/1997	1/10/1993	15715.00000	135	6.71										
ISLAND FARM DITCH	0001110	5/15/1997	1/10/1993	15715.00000	135	0										
PRIVATE DITCH MARTIN	0000699	5/15/1997	10/15/1998	17585.00000	144	1										
HAY MEADOW NO.1 DITCH	0000994	7/13/1993	5/1/1998	18220.14001	84B	0.5										
HAY MEADOW NO.2 DITCH	0000990	7/13/1993	5/1/1998	18220.14001	84C	0.5										
ALKALI DITCH D NO 80	0000501	2/11/1995	10/1/1990	20061.18536	125	0										
ALKALI NO.2 DITCH	0000502	2/11/1995	10/1/1990	20061.18536	149	4										
ALKALI NO.3 DITCH	0000502	2/11/1995	5/1/1992	20063.11009	85A	0.75										
ALKALI NO.3 DITCH	0000502	2/11/1995	5/1/1992	20063.11901	73	0.5										
GULL BRANDT-JOHANSEN DAIR	0000589	12/12/1996	5/1/1994	20302.19944	147, 18	0										
ALKALI DITCH D NO 80	0000501	12/11/913	6/12/1995	22071.16599	3-A	5.5										
TRACY DITCH	0000787	12/11/913	6/12/1995	22071.16599	111A, 2A, 3-A, 2B, 2C, 8C	2.5										
RHODES DITCH	0000709	5/15/1997	6/30/1995	23345.20369	119A	1										
M&D Canal				26554.09618												
BULL FLATS DITCH	0001300	5/1/1991	3/1/1991	26554.11303	18	0										





1350 Feet

Expected Length

Exact Siting TBD



Cost Estimates

\$5 to 6.2 Million

Long Term Maint. Costs TBD



20 CFS

Direct Conveyance

Bypass Flows TBD



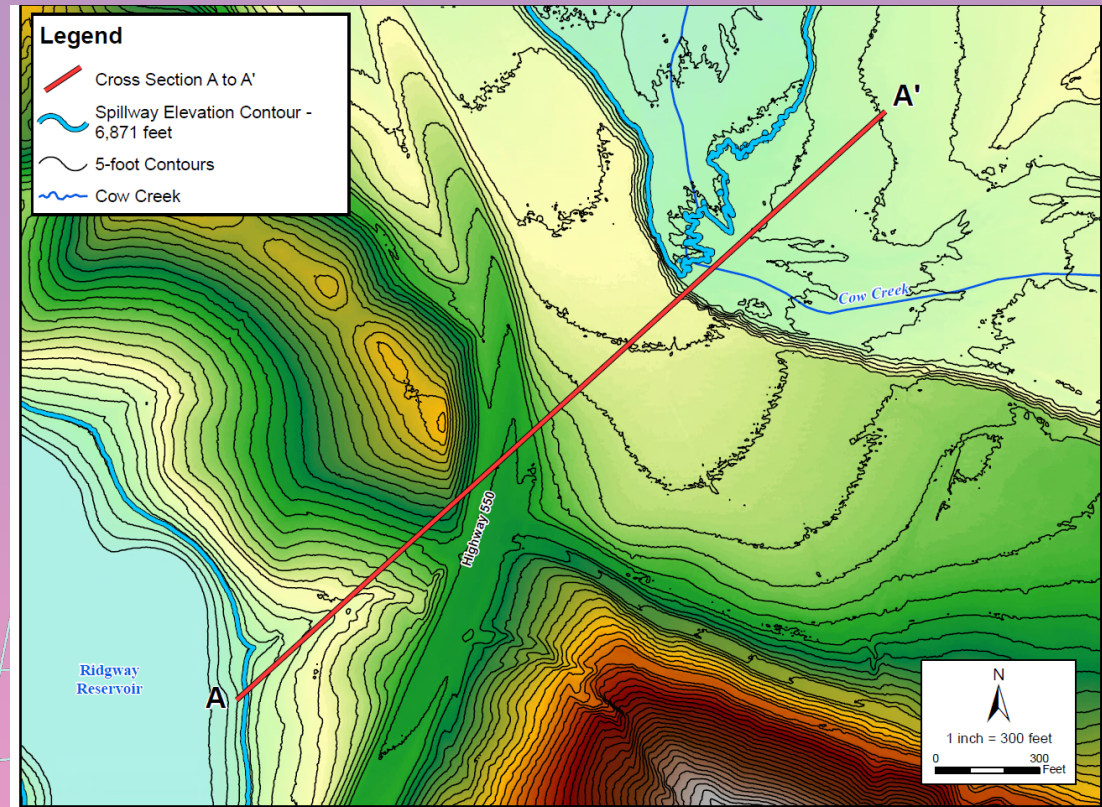
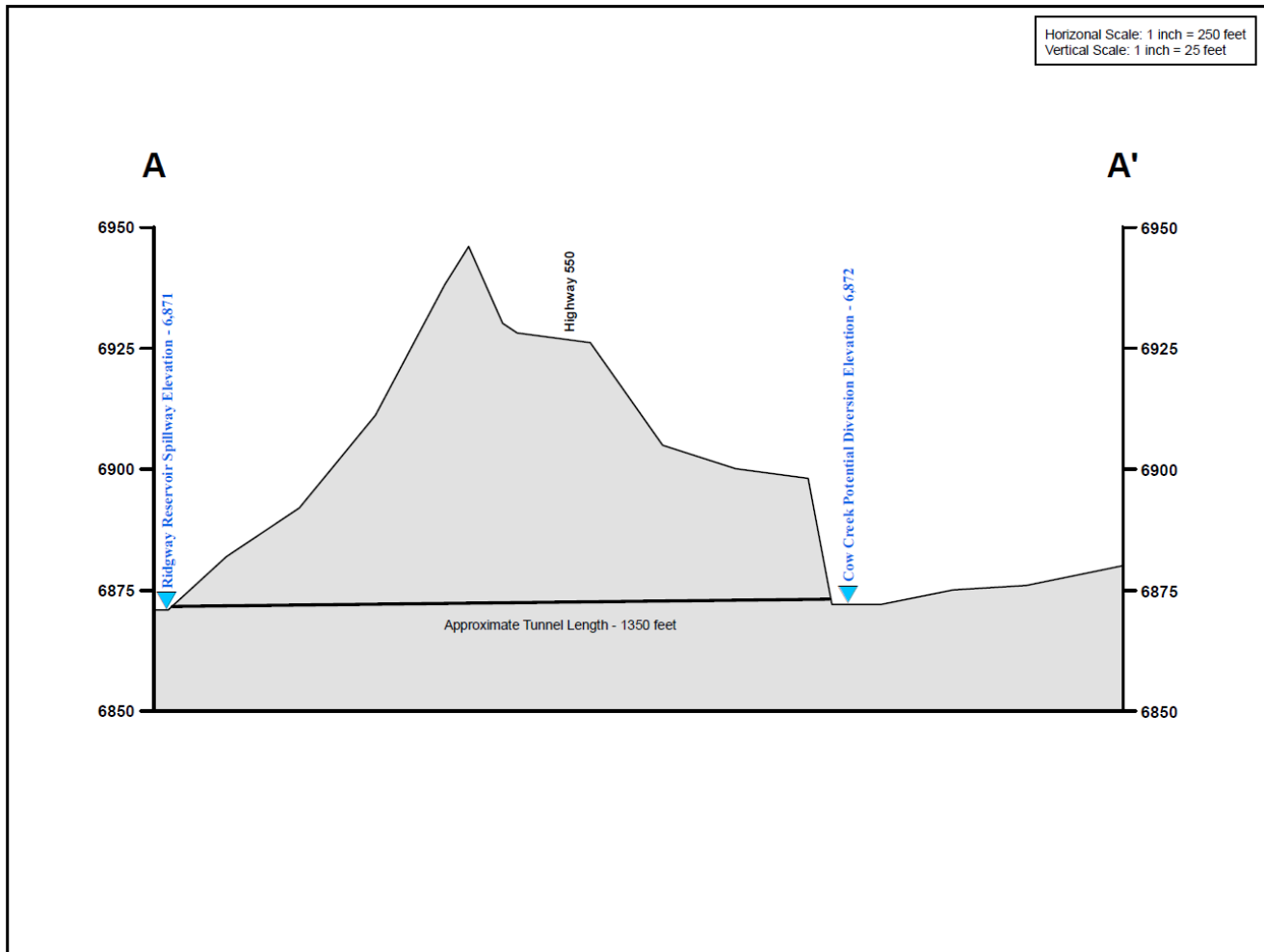
5k to 11k AF Delivery

Minimum Est. Numbers

Modeling Results Available

PIPELINE- COW CREEK





Date: 1/11/2020 Document Path: P:\151-032 Ouray County - UWB\Mapping\Map 12 - Cross Section CC to RR for Pipeline.mxd User Name: bbowling

<p>Wright Water Engineers, Inc. 1000 N. Main Ave., Ste C Durango, CO 81301 (970) 259-7411 ph 259-8758 fx</p>	<p>OURAY COUNTY, COLORADO</p> <p>COW CREEK TO RIDGWAY RESERVOIR POTENTIAL PIPELINE</p> <p>UPPER UNCOMPAGHRE BASIN (OURAY COUNTY)</p>		<p>PROJECT NO. 151-032.021</p>	<p>MAP 12</p>
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PIPELINE SITING & LOCATION (PROPOSED VISUALS- PHASE II ENGINEERING STUDIES)

STORAGE & EXCHANGE



Delivery

Ridgway Reservoir
Storage Contract
84k Total Decreed for
Ridgway Reservoir
Unallocated Pool
(23K) Contract Likely
13,750 AF Sought
Downstream and
Upstream Uses



Uses

Augmentation
Piscatorial
Irrigation
Domestic
Industrial
Commercial
HydroPower
Others



Exchanges

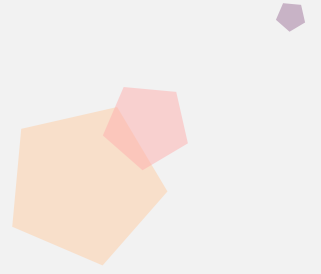
1 to 1 Exchange
“Framework”
Specific Structures
Conditional Rights
Cow Creek
Dallas Creek
Dallas Tribs.
Uncompahgre



Ridgway Reservoir

84,410 AF- Full Reservoir

Data Credit: Bob Hurford, DNR



19,996 AF (Reclamation Firm Yield Pool)

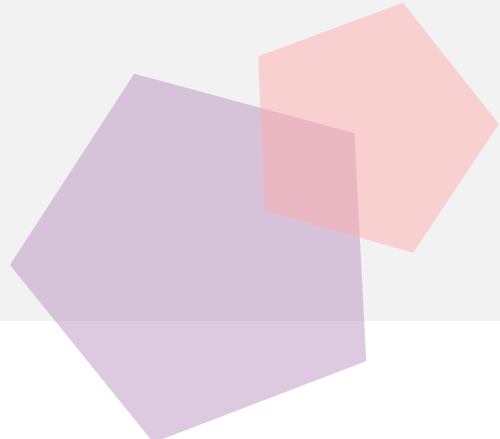
11,200 AF (UWVUA Irrigation Contract Pool)

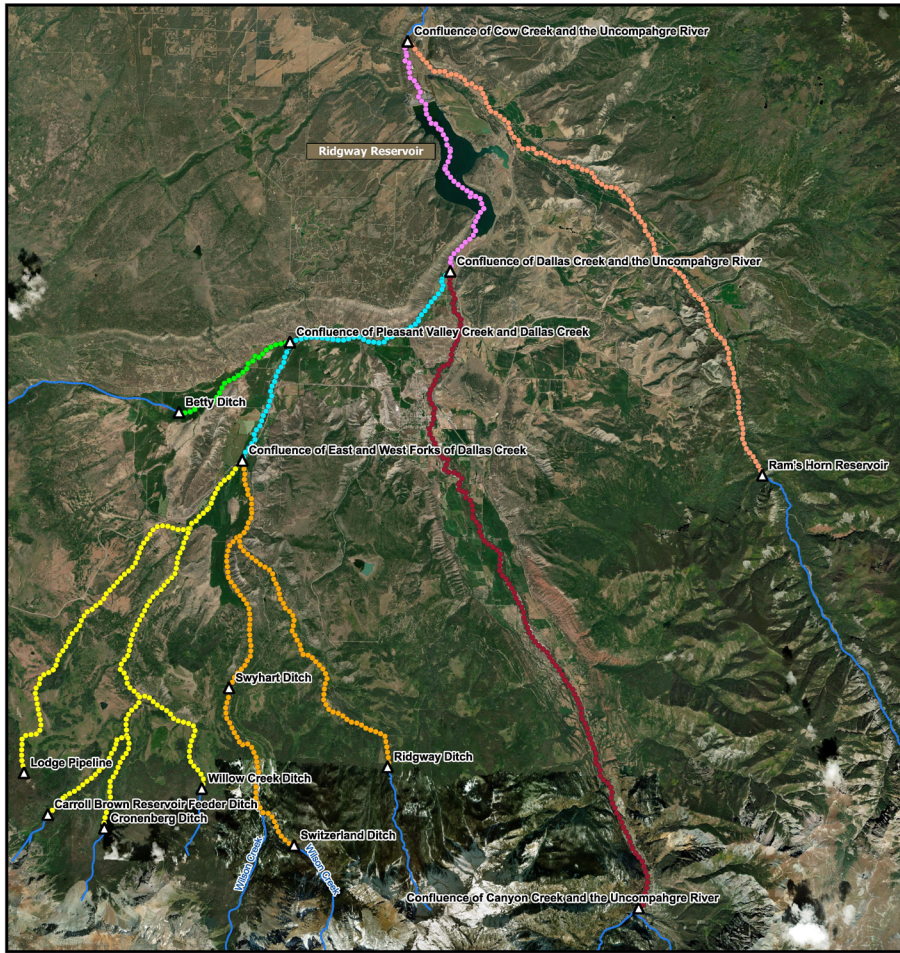
28,100 AF (M&I Pool, Project 7 Entities)

23,584 AF (Unallocated or Inactive Pool)

100 AF CPW (Fish and Rec.)

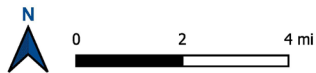
1430 AF Dead Pool





LEGEND

- ▲ Exchange-to Points
- Lower Uncompahgre River Exchange Reach (cfs)
- Upper Uncompahgre River Exchange Reach (cfs)
- West Dallas Creek Exchange Reach (cfs)
- Pleasant Valley Creek Exchange Reach (cfs)
- Dallas Creek Exchange Reach (cfs)
- Cow Creek Exchange Reach (cfs)
- East Dallas Creek Exchange Reach (cfs)
- Rivers



OURAY COUNTY			
EXCHANGE REACHES			
CASE NO. 19CW3098			
File Name: OurayCounty.ggz		Date: 08/10/2023	
Project No: 1590-23	Drawn by: MRM	Exhibit D	

Exchange Reaches *Proposed:*

*Lower Unc.
Upper Unc.
W. Dallas Creek
Pleasant Valley Creek
Dallas Creek
Cow Creek
E. Dallas Creek*

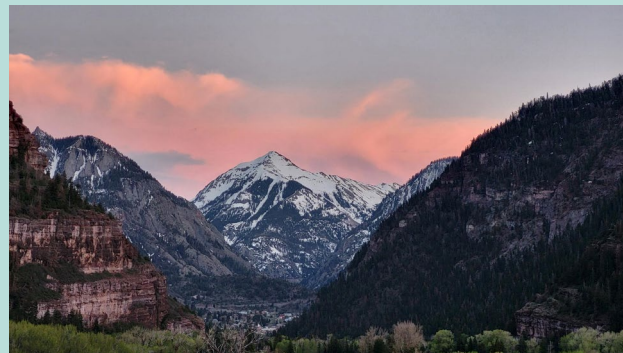
Ram's Horn Reservoir Use Enlargement

Projected Construction Costs (Phase II)

- \$125 to \$250 Million (25k AF), OR
- \$4 to 8 Million (800 AF-flow stabilization)

Existing Uses

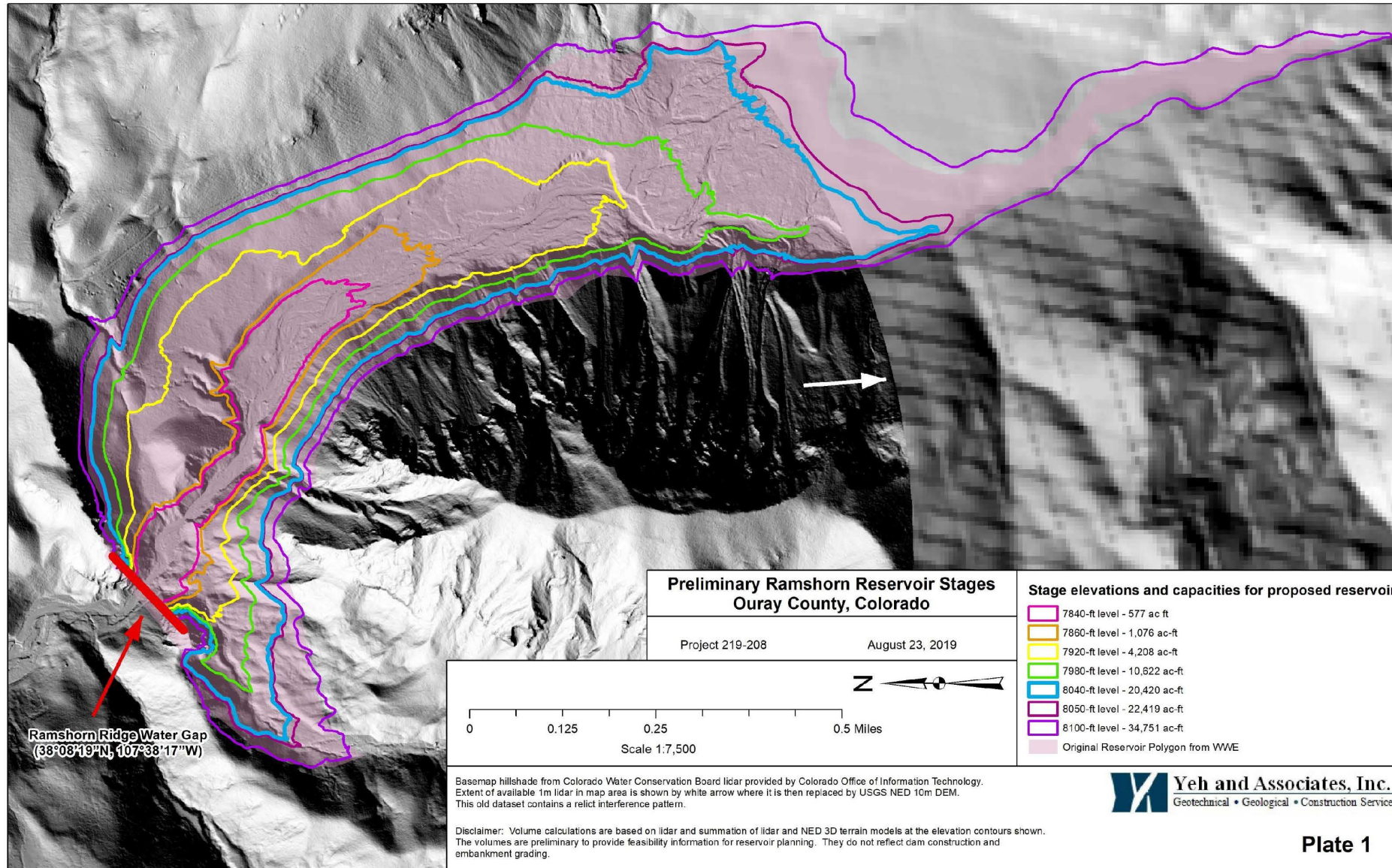
- Conditionally decreed for 25,349.15 AF of storage in 1961. Current Decreed Uses:
 - Irrigation
 - Domestic
 - Municipal
 - Industrial
 - Flood control



Proposed Enlarged Uses

2019CW3098 application identified the following additional beneficial uses:

- Flow stabilization
- Augmentation
- Exchange
- Aquifer recharge
- Reuse
- Stream flow enhancement and augmentation for aquatic life including improving water quality for aquatic habitat
- Piscatorial



**Preliminary Ramshorn Reservoir Stages
Ouray County, Colorado**

Project 219-208 August 23, 2019

Stage elevations and capacities for proposed reservoir

- 7840-ft level - 577 ac-ft
- 7860-ft level - 1,076 ac-ft
- 7920-ft level - 4,208 ac-ft
- 7980-ft level - 10,622 ac-ft
- 8040-ft level - 20,420 ac-ft
- 8050-ft level - 22,419 ac-ft
- 8100-ft level - 34,751 ac-ft
- Original Reservoir Polygon from WWE

Ramshorn Ridge Water Gap
(38°08'19"N, 107°38'17"W)



Basemap hillshade from Colorado Water Conservation Board lidar provided by Colorado Office of Information Technology. Extent of available 1m lidar in map area is shown by white arrow where it is then replaced by USGS NED 10m DEM. This old dataset contains a relict interference pattern.

Disclaimer: Volume calculations are based on lidar and summation of lidar and NED 3D terrain models at the elevation contours shown. The volumes are preliminary to provide feasibility information for reservoir planning. They do not reflect dam construction and embankment grading.

Yeh and Associates, Inc.
Geotechnical • Geological • Construction Services



THANK YOU!

<https://ouraycountyco.gov/421/Water-Resources>

Leo Caselli, Ouray County

lcaselli@ourayco.gov, 970-325-7961

QUESTIONS?