

## **ArkDSS Memorandum Final**

**To:** Bill Tyner and Kelley Thompson, Colorado Division of Water Resources  
**From:** Wilson Water Group  
**Subject:** Task 2.1 – Interview Water Users and Providers  
Notes from Water District 18 Meeting  
**Date:** February 2019

### **Introduction**

This memorandum provides notes from August 30, 2017 meeting with the Water District 18 Water Commissioner. Water District 18 encompasses the Upper Apishapa River Basin beginning about 40 miles upstream of the confluence with the Arkansas River (the most downstream portion of the basin is included in Water District 17). Meetings were held with Water Commissioners in each Water District in the ArkDSS study area. The objectives of these meetings were to 1) develop an initial basin understanding; 2) determine diversion and reservoir structures that should be included in future detailed modeling efforts, and 3) determine which reservoirs and diversions warrant more detailed investigation and technical documentation. These objectives support Task 3 Consumptive Use Analysis and Task 4 Surface Water Modeling. Information in this memorandum is believed to be accurate; however, this information should not be relied upon in any legal proceeding.

### **Approach**

Prior to the meeting, potential Key Structures for District 18 were identified using the following procedure outlined in the ArkDSS Scope of Work:

1. Review the availability of diversion, reservoir storage, and streamflow data
2. Review historical call data and identify how it may vary from current call reporting standards.
3. Identify net absolute water rights for structures in each Water District. Review the irrigated lands master parcel set and ditch service to identify ditches with water rights and/or diversions records but for which irrigated areas have not been identified.
4. Develop an initial list of key structures and structures with acreage and water rights, but no diversion records to understand areas without records and how to estimate their use.

The interview with the Water Commissioners and the Division Engineer was intended to determine structures that should be considered key based on seniority, water administration, or basin operations. Prior to the meeting, a brief description of the purpose and goals of the

interview was provided to the Water Commissioner. The following is a summary of the meeting agenda:

1. Review straight-line diagrams for accuracy
2. Develop a list of major projects, reservoirs, and ditches in the water district, including names of knowledgeable contact people
3. Gather information on dry-up points in the river, calling rights, augmentation plans, and administration specific to the water district
4. Gather general information on the preliminary list of irrigation diversions selected to include in future detailed modeling efforts (key structures), and solicit input on their final inclusion
5. Develop information on reservoirs, such as owner entities, ditches that get reservoir deliveries, assigned delivery losses, etc.

In order to correct irrigated acreage information, Wilson Water Group developed maps displaying reservoirs, diversion headgate locations, and irrigated acreage on an aerial background of the Water District to facilitate the discussions.

### **Meeting Attendance**

The meeting was held at the Division of Water Resources Office in Pueblo. The following people attended the meeting:

Steve Witte, DWR, Division 2 Engineer

Bill Tyner, DWR, Assistant Division 2 Engineer

John Van Oort, DWR, River Operations Coordinator

Doug Brgoch, DWR, Southern Region Commissioner and Water District 16 & 18 Commissioner

Justin Lucero, DWR, Deputy District 18 & 19 Water Commissioner

Kara Sobieski, Wilson Water Group

Katie Birch, Wilson Water Group

### **Transbasin Diversions**

There are no transmountain diversions in Water District 18.

### **Compacts and Agreements Affecting District 18 Administration**

Water District 18 is subject to administration of the Colorado-Kansas Arkansas River Compact, including John Martin Reservoir storage calls which can extend into the Apishapa River basin.

The Apishapa River operates under futile call conditions for most years, and therefore administration of the Compact in the District is rare. Water District 18 is also subject to the

Compact Rules Governing Improvements to Surface Water Irrigation Systems (Irrigation Improvement Rules).

## Stream Gages

There are no currently active streamflow gages in Water District 18. There were two historical gages near the Town of Aguilar and the gages, station ID, and comments regarding the use or quality of the gage are summarized below. The District has requested new gages and/or the historical gages to be re-commissioned.

APISHAPA RIVER NEAR AGUILAR, CO. (07118000)

- Records available for 1939-1950, USGS decommissioned

APISHAPA RIVER AT AGUILAR, CO. (07118500)

- Records available for 1938 – 1939 and 1978 – 1981, USGS decommissioned

The Apishapa River near Aguilar gage was located approximately 1.5 miles upstream of the Apishapa River at Aguilar gage; and both the Gonzales Ditch (1800503) and Lucero Ditch (1800506) divert within that distance. If the gage records are to be combined for modeling efforts, considerations need to be made to adjust the records for the ditch diversions.

The Apishapa River near Fowler, CO (07119500) is an active gage located in Water District 17 near the confluence of the Apishapa River and the Arkansas River; this gage is approximately 50 miles downstream of the Water District 18 boundary.

## Instream Flow Reaches

No instream flow water rights are decreed in District 18.

## General Administration

The current Water Commissioner, Doug Brgoch, has managed Water Districts 16 & 18 since 1987. The Water Commissioner has been assisted by the Deputy Water Commissioner, Justin Lucero, since 2013.

- A majority of the administration is performed by the Deputy Water Commissioner. Justin Lucero records diversions daily for senior ditches and visits more junior water users in the basin multiple times per week. Additionally, he is responsible for determining the call and notifying water users when they are in or out of priority. Only diversions records for Escondida Ditch, lower on the river, are user supplied.
- With no active streamflow gages, streamflow available to the Priority 1 and 2 ditches, the Gonzales Ditch (1800503) and Lucero Ditch (1800506) respectively, is used to set the call and administer water rights upstream.

- The Apishapa River is extremely water short; the Priority 1 water right in the basin (1866 water right on the Gonzales Ditch) is shorted half of the time. Irrigators with more junior rights generally only receive water during runoff in average years and occasional longer into the irrigation season during above-average flows. Generally, only Priority 1 and 2 ditches have sufficient water to get a second crop cutting.
- The Apishapa River generally operates under internal river calls (i.e. calls by water users on the Apishapa River) and only during above average years do Arkansas River mainstem calls impact the administration in the basin.
- The primary crop grown in the basin is grass hay, with alfalfa grown on a limited basis.
- Water users in the basin primarily flood irrigate, there are no sprinklers in the basin.
- Canal efficiencies for ditches upstream of the Lucero Ditch (1800506) were estimated to be 90 percent. Ditches downstream of the Lucero Ditch, and particularly ditches east of the Interstate 25, have larger canal losses due to the sandy soil composition and were estimated to be between 75 to 80 percent.
- Water rights on the Apishapa River were adjudicated in both Bent and Las Animas Counties on March 12, 1887 and March 14, 1891, respectively. This resulted in a combined list of priorities with “competing” adjudications. The issue was brought before the Colorado State Engineer in 1964 (“State Engineer Whitten Ruling”) and was elevated to the Colorado Supreme Court (Ruling No. 23439). These proceedings failed to completely resolve the issue; however, they did result in a combined list of priorities based on appropriation reflected in “Exhibit C” of the 1964 proceedings. Exhibit C however contained some errors and the issue was again brought before the Division 2 Engineer in 2010 by water users in the basin. In response to their concerns, the Division 2 Engineer indicated that the water rights from the two decrees would continue to be administered based on their appropriation dates and provided a corrected list of the priorities (see Appendix A). HydroBase reflects the correct adjudication and appropriation dates for the basin.
- Oil and coalbed methane gas drilling has produced thousands of wells in the basin. Their lifecycle is generally 15 years and produced water was significant historically. Due to declines in production, produced water that may have contributed up to 30 percent of river flows from 1995 to 2005, currently contributes less than 1 percent. Division 2 staff indicated that records were not kept of produced water that flowed into the river.
- No Colorado Water Conservation Board (CWCB) Minimum Instream Flow water rights are decreed in the District.

**Table 1** provides a normal year river call sequence:

**Table 1**  
**Normal Year Water District 18 River Call Sequence**

March – July	Senior water rights begin diverting for irrigation in early March; more junior water rights begin diverting in May. Runoff will typically satisfy the top 20 priorities. First cutting occurs mid-June through the 4 <sup>th</sup> of July.
July – Mid-October	In average years, streamflow is very low by August. Only the very senior water rights have sufficient diversions to get another cutting in September.
Mid-October – March	Wintertime augmentation occurs for the City of Aguilar using changed Gonzales Ditch shares. Storage for the Spanish Peaks Subdivision Augmentation Plan generally fills over the winter.

### **Municipal Use**

The **Town of Aguilar** meets its municipal demand from ground water supplies pumped from seven low capacity wells (1805001 – 1805006, 1805010). Note that the Mauricio Canyon Infiltration Gallery (1805040) on Trujillo Creek is no longer used due to water quality and treatment issues. The town purchased 4.97 percent of the Gonzales Ditch (1800503) and 12.8 percent of the Desidero Lovato Ditch (1800515) in the 1970’s, and changed the water rights over to municipal use with the wells as an alternate point of diversion (W3611). Well pumping is limited to a maximum of 75 acre-feet over the March 1 – October 15 period annually under these water rights. The town’s augmentation plan (1807157) was decreed in 2015 (Case No. 05CW0103) and the primary source of augmentation supplies are changed water rights in the Gonzales Ditch (1800503). For their augmentation purposes, the town purchased an additional 10 percent<sup>1</sup> of the Gonzales Ditch (1800503) and changed the water rights to augmentation use. It is a phased decree that allows the town to grow into future demand and service area and also contemplates the construction of a 100 acre-feet reservoir for municipal and augmentation purposes. Return flow obligations, outlined in the decree, are either left in Gonzales Ditch or measured and turned back to the river at the newly constructed Gonzales Ditch augmentation station. Aguilar’s wastewater treatment plant consists of a series of lagoons, which are considered as only 10 percent consumptive (i.e. 90 percent returns to the river), but effluent generally does not get discharged or returned to the river.

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<sup>1</sup> Case No. 05CW103 decree incorrectly reflects the changed ditch share information. As 15 out of 302 shares of Gonzales Ditch were changed and transferred to the wells in Case No. W3611, the remaining shares available for the augmentation plan should be 287, not 288 as stated in the decree. The changed water right amounts in both Case No. W3611 and 05CW103 will be used for modeling purposes, and they reflect 4.97 percent and an additional 10.0 percent of Gonzales Ditch was changed respectively.

## Reservoir Specific Information

There are no significant reservoir operations in Water District 18.

## Tributary Specific Information

Water District 18 can generally be divided into three main sections for discussion purposes:

- Trujillo Creek is a tributary of the Apishapa River that encompasses the northern portion of the District. Runoff from Trujillo Creek generally occurs earlier than the Apishapa River, and accounts for an average of 30 percent of annual streamflows.
- The Upper Apishapa River and Rito Seco/Jarosa Canyon Creek encompasses the southern portion of the District. Runoff from Jarosa Canyon and the Apishapa River peaks later in the year due to higher elevation snowpack, and accounts for an average of 70 percent of streamflows.
- The Lower Mainstem encompasses the area below the confluence of Trujillo Creek and the Apishapa River.

### Trujillo Creek

- Southside Vigil Ditch (1800540) and Northside Vigil Ditch (1800539): Share a headgate but diversion records and irrigated acreage are measured separately.
- Mauricio Canyon Infiltration Gallery (1805040): Owned by Town of Aguilar, not currently operated due to water quality and treatment issues.
- Desidero Lovato Ditch (1800515): 12.8 percent of the water right was transferred to the Town of Aguilar's wells and is available for use during the irrigation season when in-priority. The remaining water rights are used for irrigation under the ditch.

### The Upper Apishapa River

- Spanish Peaks Summer Home Community: Domestic water use is supplied by Spanish Peaks Springs No. 68 and 63 (79CW151) from May to September for up to 141 taps; it is limited to indoor use only. The community decreed an 0.027 cfs (8 af annual limit) exchange from Spanish Peaks Ranch Pond No. 13 (1803513, 27 acre-feet capacity), which is filled by Spanish Peaks Pipeline (1800543) over the winter months, to the springs to allow continued use of the spring supplies when they are out of priority. The community contemplated using changed Gonzales Ditch (1800503) shares for the exchange, but this operation was excluded from the case.
- Wilders Upper Ditch and Alt Pt (1800512 and 1800552): Historically irrigation, no irrigation since early 2000's.
- Tracy Upper, Lower, and Alt Point Ditches (1800534, 1800531, and 1800558): Historically irrigated, no irrigation since mid-1990's.
- Thomas Ditch No. 1 and 2 (1800532 and 1800533): Historically irrigated, no irrigation since mid-1990's.
- Brunelli Ditch (1800546): Diverts under 3.5 cfs Priority 36 water right transferred from Archuleta Ditch (1800500) in Case No. W-3912; sporadic irrigation and diversions under both ditches.

- Felipe Vigil Ditch (1800541) and Felipe Vasquez Ditch (1800542): Historically the only diversions from Jarosa Canyon, now abandoned.
- Felix Cruz Ditch (1800517): Generally, irrigates every year, headgate diverts full water right but capacity is limited to 4-5 cfs down-ditch.
- Mill Ditch (1800522): Diverts sporadically, river reach has several beaver dams

### **The Lower Apishapa River**

The following structures divert from the mainstem Apishapa River downstream of the Trujillo Creek confluence. Most of the diversions in this reach require frequent administration and require the majority of the efforts spent on administration by the Deputy Water Commissioner.

- Mauricio Apocada Ditch (1800524): Generally, irrigates every year, but diversions are generally limited to runoff in average years. Located just downstream of the Trujillo Creek confluence, it often serves as the controlling right when the Gonzales and Lucero Ditches are satisfied.
- Gonzales Ditch (1800503): Priority No. 1 in the system and the controlling right. The ditch typically diverts 6.96 cfs (remaining water right after Town of Aguilar changed portion) for irrigation with a dam that sweeps the river, bypassing flows to downstream users via a wasteway. Users under the ditch irrigate on rotations. The ditch shares a headgate with Gonzales Ditch 1<sup>st</sup> Enlargement (1800545) but the enlargement water rights are accounted for under the Gonzales and serve the same irrigated lands. There are diversion records under both structures in HydroBase and should be considered a diversion system. Gonzales Ditch and the Enlargement also convey water to Borrego Ditch (1800502), whose headgate is located approximately 2.5 miles down-ditch and should be considered a diversion system. The Borrego Ditch currently irrigates acreage east of the highway under a relatively junior priority; a portion of the irrigated acreage is sub-divided for housing. Diversion records at Borrego Ditch reflect native streamflow from the Apishapa River and return flows from the Gonzales Ditch, measurements reflect diversions *after* conveyance loss. Older diversion records for Borrego Ditch are included in the Gonzales Ditch diversion records.
- Lucero Ditch (1800506): Priority No. 2 in the system and is also a controlling right. The ditch typically diverts 10.8 cfs from the mainstem Apishapa River approximately 100 yards downstream of the Gonzales Ditch wasteway. The ditch irrigates approximately 150 acres on the east side of the river; diversions are flumed under County Highway 63.
- Foster Ditch (1800518): Historically irrigated on the east side of the river under a Priority 30 water right. The water rights were transferred to the Coppa Pump (1800548) and Van Cleve Pump (1800549) in the mid-1990's however records reflect no diversion records under the pumps after the transfer. The water rights were partially abandoned in 2015. Historically, these ditches should be considered as a diversion system.
- Antonia Sais Ditch (1800513): Irrigates approximately 265 acres when water is available, very rarely irrigates due to very junior priority.
- Salisbury Northside and Southside Ditches (1800527 and 1800528): The Southside Ditch is not used; water rights were transferred to the Northside Ditch. The Northside Ditch

currently irrigates up to 600 acres on the north side of the river. There are limited records under the Southside Ditch; ditches should be considered as a diversion system.

- Widderfield Northside, Southside, and Combined Ditches (1800507, 1800509, and 1800550): Flooding conditions rerouted the Apishapa River in the 1920's away from the Northside and Southside Ditches. The Combined Ditch was located on the new river and the Northside and Southside Ditch water rights were transferred to the Combined Ditch structure (Case No. 89CW032). Diversion records were historically associated with the Northside and Southside Ditches; more recent records are available under the Combined Ditch structure. The ditches should be considered as a diversion system.
- Seven Lakes Reservoir (1803780): Diversions to storage were only attempted a couple of times, however sandy channel conditions limited the amount that reached the reservoirs. The reservoir is now abandoned.
- Escondida Ditch and Alt Point (1800536 and 1800559): These ditches are the last actively irrigating structures in the District, and water rarely reaches these diversions. Sandy conditions in the river reach make it difficult to keep a headgate intact. The alternate point structure reflects a changed headgate location upstream of the original decreed location. The ditches should be considered as a diversion system. The canal historically conveyed water down-ditch of Sorgs Arroyo but no longer can. Apishapa River flows generally only make it past the Escondida Ditch headgate in above average flow years.



## Appendix A: Apishapa River Administrative List

WDID	NAME	SOURCE	CFS	ADJUDICATION DATE	DIVISION ENGINEERS OFFICE ADMINISTRATIVE LIST - WATER DISTRICT 16 - APISHAPA RIVER										DECREED ACRES	COMMENTS
					PREVIOUS ADJUDICATION	APPROPRIATION DATE	ADMIN NUMBER	DEO	SEO EX-C	BENT	LAS ANIMAS	MISC	CASE NUMBER			
					PRIORITY	DECREE	BC#	BC#	BC#	BC#	BC#	BC#	BC#	BC#		
1600503	GONZALES DITCH	APISHAPA RIVER	7.31	03/14/1891		10/31/1866	6148	1	EXC-1	BC#1	-	-	03/12/1887	-	SEE W-3611 & 05CW103	
1600506	LUCERO DITCH	APISHAPA RIVER	10.8	03/14/1891		3/31/1867	6296	2	EXC-2	BC#2	-	-	03/12/1887	-		
1600516	DESIDERO LOYATO DITCH	APISHAPA RIVER	1.95	03/14/1891		4/30/1867	6329	3	EXC-3	-	LAC#1	-	03/14/1891	140	SEE W-3611	
1600520	JULIAN LUCERO DITCH	APISHAPA RIVER	2.16	03/14/1891		6/24/1867	6384	4	EXC-4	-	LAC#2	-	03/14/1891	200		
1600516	DURAN DITCH	APISHAPA RIVER	1.67	03/14/1891		7/1/1867	6391	5	EXC-5	-	LAC#3	-	03/14/1891	200		
1600538	JOSE M ARIE VIGIL DITCH 2	TRUJILLO CREEK	7	03/14/1891		10/5/1867	6487	6	EXC-6	-	LAC#4	-	03/14/1891	260		
1600509	WIDDERFIELD SOUTHSIDE	APISHAPA RIVER	3.44	03/14/1891		4/7/1866	6666	7	EXC-8	-	LAC#5	-	03/14/1891	100	"INSIDE DITCH", SEE 89CW042	
1600541	FELIPE VIGIL DITCH	JAROSA CREEK	1.44	03/14/1891		5/7/1868	6696	8	EXC-9	-	LAC#6	-	03/14/1891	120	RIGHT ABANDONED 94CW042	
1600539	NORTHSIDE VIGIL DITCH	TRUJILLO CREEK	5.45	03/14/1891		5/20/1868	6715	9	EXC-10	-	LAC#7	-	03/14/1891	200		
1600517	FELIX CRUZ DITCH	APISHAPA RIVER	10.27	03/14/1891		5/30/1868	6725	10	EXC-11	-	LAC#8	-	03/14/1891	140		
1600540	SOUTHSIDE VIGIL DITCH	TRUJILLO CREEK	4.48	03/14/1891		5/31/1868	6726	11	EXC-12	-	LAC#9	-	03/14/1891	300		
1600537	JOSE M ARIE VIGIL DITCH 1	TRUJILLO CREEK	3.22	03/14/1891		6/1/1868	6727	12	EXC-13	-	LAC#10	-	03/14/1891	120	RIGHT ABANDONED 84CW087	
1600524	MAURICIO APODACA DITCH	APISHAPA RIVER	5.49	03/14/1891		6/16/1868	6741	13	EXC-4	-	LAC#11	-	03/14/1891	241	ACTUAL RANGE IS 65W DECREE IN ERROR	
1600505	JOSE RAMON GONZALEZ	APISHAPA RIVER	9.14	03/14/1891		6/21/1868	6747	14	EXC-7	BC#3	-	-	03/12/1887	-	ERROR IN SEO EX-C LIST	
1600509	WIDDERFIELD SOUTHSIDE	APISHAPA RIVER	7.6	03/14/1891		7/3/1868	6787	15	EXC-15	-	LAC#12	-	03/14/1891	60	"OUTSIDE DITCH", SEE 89CW042	
1600529	CORDOVA DITCH	APISHAPA RIVER	1.5	5/12/1803		4/7/1869	7031	16	EXC-16	-	-	12	CA3362	75	ORIGINAL ADJUDICATION PRIORITY PER SEO 101	
1600525	PAIS DITCH	APISHAPA RIVER	9.69	03/14/1891		4/10/1869	7040	17	EXC-17	-	LAC#13	-	03/14/1891	90		
1600503	GONZALES DITCH	APISHAPA RIVER	14.69	03/14/1891		4/29/1869	7059	18	EXC-18	BC#4	-	-	03/12/1887	-	GONZALES DITCH ENLARGEMENT, SEE W-3611 & C	
1600507	WIDDERFIELD NORTHSIDE	APISHAPA RIVER	12.4	03/14/1891		4/30/1869	7060	19	EXC-19	BC#5	-	-	03/12/1887	-	SEE 89CW032	
1600521	JOSE M ARCHULETA DITCH	APISHAPA RIVER	192	03/14/1891		5/4/1869	7064	20	EXC-20	-	LAC#14	-	03/14/1891	125		
1600527	SALSBURY NORTHSIDE	APISHAPA RIVER	16.8	03/14/1891		5/31/1869	7091	21	EXC-21	-	LAC#15	-	03/14/1891	132.21		
1600507	WIDDERFIELD NORTHSIDE	APISHAPA RIVER	8.64	03/14/1891		6/1/1869	7092	22	EXC-23	-	LAC#16	-	03/14/1891	100	SEE 89CW032	
1600509	WIDDERFIELD SOUTHSIDE	APISHAPA RIVER	5.43	03/14/1891		7/31/1869	7152	23	EXC-24	BC#6	-	-	03/12/1887	-	SEE 89CW032	
1600502	BOCORREGO DITCH	APISHAPA RIVER	20.63	03/14/1891		2/15/1870	7351	24	EXC-25	BC#7	-	-	03/12/1887	-	EXTENSION OF THE GONZALES DITCH	
1600528	SALSBURY SOUTHSIDE	APISHAPA RIVER	7.95	03/14/1891		2/28/1870	7364	25	EXC-26	-	LAC#17	-	03/14/1891	55.94	SEE CA-8121 FOR ALT PTS	
1600526	SALAZAR IRRIGATION DITCH	APISHAPA RIVER	16	03/14/1891		3/1/1870	7365	26	EXC-27	-	LAC#18	-	03/14/1891	120	DECREE COPY MISTAKENLY LISTS 3/1/1870 RIGHT	
1600523	MARTINEZ DITCH	APISHAPA RIVER	2.48	03/14/1891		4/3/1870	7398	27	EXC-28	-	LAC#19	-	03/14/1891	126		
1600547	ROSALES DITCH	APISHAPA RIVER	0.5	5/12/1803		5/7/1870	7426	28	EXC-29	-	-	16A	CA3362	26	ORIGINAL ADJUDICATION PRIORITY PER SEO 101	
1600542	FELIPE VA SQUEZ DITCH	JAROSA CREEK	4.38	03/14/1891		12/31/1870	7670	29	EXC-30	-	LAC#20	-	03/14/1891	23	RIGHT ABANDONED SEE 84CW116	
1600518	FOSTER DITCH	APISHAPA RIVER	14.7	03/14/1891		12/31/1871	8035	30	EXC-31	-	LAC#21	-	03/14/1891	150		
1600500	ARCHULETA DITCH	APISHAPA RIVER	3.6	03/14/1891		3/15/1872	8110	31	EXC-32	BC#8	-	-	03/12/1887	-		
1600522	MILL DITCH	APISHAPA RIVER	14.12	03/14/1891		4/20/1872	8146	32	EXC-33	-	LAC#22	-	03/14/1891	30		
1600519	GUADALUPE APODACA DITCH	APISHAPA RIVER	13.72	03/14/1891		5/7/1872	8157	33	EXC-34	-	LAC#23	-	03/14/1891	60		
1600512	WILDERS UPPER DITCH	APISHAPA RIVER	21.37	03/14/1891		6/10/1872	8197	34	EXC-35	BC#9	-	-	03/12/1887	-		
1600514	BACA BROTHERS DITCH	APISHAPA RIVER	2	03/14/1891		7/31/1872	8248	35	EXC-36	-	LAC#24	-	03/14/1891	40		
1600500	ARCHULETA DITCH	APISHAPA RIVER	3.5	03/14/1891		5/31/1876	9648	36	EXC-37	BC#10	-	-	03/12/1887	-	RIGHT TRANSFERRED TO BRUNELLI DITCH	
1600533	THOMAS DITCH NO 2	APISHAPA RIVER	16.07	12/21/1909		5/7/1883	12174	37	EXC-38	-	-	24A	12/21/1909	-	ORIGINAL ADJUDICATION PRIORITY PER SEO 101	
1600509	WIDDERFIELD SOUTHSIDE	APISHAPA RIVER	5.44	03/14/1891		5/18/1883	12191	38	EXC-39	-	LAC#25	-	03/14/1891	1000	FIRST ENLARGEMENT, SEE 89CW042	
1600509	WIDDERFIELD SOUTHSIDE	APISHAPA RIVER	8.55	03/14/1891		5/31/1883	12204	39	EXC-40	BC#11	-	-	03/12/1887	-	FIRST ENLARGEMENT, SEE 89CW042	
1600532	THOMAS DITCH NO 1	APISHAPA RIVER	10	12/21/1909		5/15/1884	12554	40	EXC-41	-	-	25A	12/21/1909	-	ORIGINAL ADJUDICATION PRIORITY PER SEO 101	
1600507	WIDDERFIELD NORTHSIDE	APISHAPA RIVER	16.29	03/14/1891		2/15/1886	13195	41	EXC-42	BC#12	-	-	03/12/1887	-	FIRST ENLARGEMENT, SEE 89CW042	
1600507	WIDDERFIELD NORTHSIDE	APISHAPA RIVER	13.67	03/14/1891		2/15/1886	13195	42	EXC-43	-	LAC#26	-	03/14/1891	1000	FIRST ENLARGEMENT, SEE 89CW042	
1600509	WIDDERFIELD SOUTHSIDE	APISHAPA RIVER	11.48	03/14/1891		3/15/1886	13223	43	EXC-44	-	LAC#27	-	03/14/1891	0	SECOND ENLARGEMENT, 0 ADDITIONAL ACRES	
1600527	SAUSBURY NORTHSIDE	APISHAPA RIVER	0	03/14/1891		3/16/1886	13224	44	EXC-22	-	LAC#28	-	03/14/1891	976	NO FURTHER WATER, NO DATE DECREE, ERROR	
1600509	WIDDERFIELD SOUTHSIDE	APISHAPA RIVER	6.32	03/14/1891		3/31/1886	13239	45	EXC-45	BC#13	-	-	03/12/1887	-	SECOND ENLARGEMENT, SEE 89CW042	
1600528	SAUSBURY SOUTHSIDE	APISHAPA RIVER	34.65	03/14/1891		12/21/1886	13505	46	EXC-46	-	LAC#29	-	03/14/1891	500	FIRST ENLARGEMENT SEE CA-8121 FOR ALT PTS	
1600534	TRACY UPPER DITCH	APISHAPA RIVER	0.99	12/21/1909		4/7/1889	14336	47	EXC-47	-	-	29A	CA527	-	ORIGINAL ADJUDICATION PRIORITY PER SEO 101	
1600513	ANTONIA SAIS DITCH	APISHAPA RIVER	7.65	03/14/1891		12/15/1890	14959	48	EXC-48	-	LAC#30	-	03/14/1891	200		
1600530	OMER DITCH	APISHAPA RIVER	20.4	9/22/1906		8/16/1898	17760	49	EXC-49	-	-	-	CA4676	3300	ORIGINAL ADJUDICATION PRIORITY PER SEO 101	
1600531	TRACY LOWER DITCH	APISHAPA RIVER	5.89	12/21/1909		3/7/1904	19783	50	-	-	-	3112-A	CA527	-	ORIGINAL ADJUDICATION PRIORITY PER SEO 101	
1600527	SAUSBURY NORTHSIDE	APISHAPA RIVER	28	1/11/1916	12/21/1909	12/26/1906	21885.20448	51	-	-	-	1919-1	CA8121	260	CONROW ENLARGEMENT MODIFIED POD FROM	
1600536	ESCONDIDA DITCH	APISHAPA RIVER	27	1/11/1916	12/21/1909	7/1/1908	21885.21911	52	-	-	-	1919-2	CA8121	267	SEE 87CW042 FOR CPD & ALT PT	
1603780	SEVEN LAKES RESERVOIR	APISHAPA RIVER	4786 AF	1/11/1916	12/21/1909	21885.2455	53	-	-	-	-	1919-3	CA8121	5000	SUPPLEMENTAL SUPPLY TO SWINK IRRIGATION 6	
1600555	ELMORE FLOOD DITCH	APISHAPA RIVER	12.5	1/11/1916	12/21/1909	12/14/1911	22627	54	-	-	-	1919-4	CA8121	-	RIGHT ABANDONED 84CW067	

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