## WATER RESOURCES REPORT —RETREAT AT TIMBERRIDGE FILING 3

#### **TOPICAL REPORT RSI-3232 A**



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PREPARED FOR Falcon Area Water and Wastewater Authority

MAY 2023





Project Number W0242.22001





### **EXECUTIVE SUMMARY**



This report is a submittal for Retreat at TimberRidge Filing 3. The land is to be provided central water and sewer services through the Falcon Area Water and Wastewater Authority (FAWWA), which is the overall service entity for, not only the Retreat but also Sterling Ranch, and the future Ranch.

It is expected that an urban residential home in the Retreat service area will require an average of 0.353 annual acre-feet, which is the adopted user characteristic for FAWWA. This is consistent with historic needs for nearby developments. Note that for the very small high-density lots, FAWWA has adopted an SFE equivalency ratio to account for substantially reduced water needs, although this is partially offset by estimation of common area irrigation needs.

Retreat at TimberRidge Filing 3 includes 33 lots residential lots. Of these, 30 will be served by central water. The resulting water demand is 10.59 acre-feet. This allotment is wholly contained in previously committed water through the Preliminary Plan for the overall Retreat at TimberRidge.

There are three lots 1, 2, and 3 that will be provided water through single residential wells. These wells are facilitated by the Augmentation plan, 18CW 3003, which provide for single family wells including Lots 1, 2, and 3 of Filing 3. The 3 single family wells will require 0.96 annual acre-feet.

Appendix F is an accounting of active water commitments, which total 900.76 acre-feet including all subdivisions committed through May 15, 2023.

Table 3 is an outline of available water supply which totals 1930.03 annual acre-feet on a 300 year basis.

This leaves a net excess of currently available water of 1029.40  $AF_{300 year}$  and therefore there is more than sufficient water supply to meet the needs of Timberidge Filing 3 and Preliminary Plan on the 300-year basis.



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### **1.0 INTRODUCTION**



The purpose of this study is to provide a preliminary outline of the water resources and wastewater needs that would be necessary for the Retreat at Timberridge Filing 3 development.

#### **1.1 NEW DEVELOPMENT DESCRIPTION**

The Homestead North at Sterling Ranch Filing 3 development is located east of Vollmer Road and north of Woodmen Road..

Appendix A contains the Overall Service Area Map for FAWWA, which includes SRMD.

Appendix B-1 contains the proposed Retreat at Timberridge Filing 3

#### 2.0 PROJECTION OF WATER NEEDS

#### **2.1 ANALYSIS OF WATER NEEDS**

It is expected that the residential lots on central water will be developed with single-family housing with anticipated turf grass landscaping.

For the last five years, there has been a trend in land use that provides for much smaller lots and much denser development in certain areas. Lots smaller than 7,000 square feet are anticipated in certain areas. This is resulting in much lower water needs for these types of developments. The standard SFE adopted in Sterling Ranch has been 0.353 annual acre-feet. However, this is for the formerly typical household anticipating 1500 square feet or more of landscaping. In order to adjust for such increases in density, we are adopting a scaled down equivalency to meet the changes in lot sizes. For instance, lot areas less than 3500 sf have reduced water use that roughly is equivalent to apartments or townhomes where water use is indoor only.

In order to address this trend towards high-density development, we have established a SFE equivalency factor scale as follows for these smaller lot sizes;

· · ·	, ,	-
Lot Size	SFE Ratio	Effective Annual Demand
Lots < 2000 SF	0.65	0.23
Lots < 3500 SF	0.75	0.265
Lots < 7000 SF	0.90	0.318
Lots > 7000 SF	1.0	0.353

 Table 1.
 SFE Equivalency for High Density Lots



Retreat at Timberridge Filing 3 has no common areas or tracts within which active irrigation is expected.

Using the above criteria, there are 30 lots in the standard SFE category to be served by central water. The expected water demands are shown in Table 2 following:



#### Maximum Peak-Hour Average Daily **Daily Flow** Flow (@ 1.5 x Water Use Per Unit Annual Demand Flow (ADF) (MDF) (@2.45 # of Units Land Use MDF) (AF/Unit) (AF) x ADF) (GPD) (GPM) (GPD) Residential 0 0 0 0 0 0.23 < 2000 SF Residential 0 0 0 0 0 0.265 < 3500 SF Residential 0 0 0 0 0.318 < 7000 SF Residential 30 0.353 10.59 9,454 23,162 24 > 7000 SF Acres-Active 0 0 2.5 0 0 0 Irrigation Total 10.59 9,454 23,162 24

Table 2. Projected Water Demands for Retreat at Timberridge Filing 3

The total annual demand of Retreat at Timberridge Filing 3 is 10.59 AF.



## 3.0 WATER RIGHTS AND SYSTEM FACILITIES

#### **3.1 WATER RIGHTS**



Water rights adjudications have been decreed by the State of Colorado, Water Division 2 District Court, Water Division 1 District Court, and the Colorado Groundwater Commission. The comprehensive rights for the FAWWA service include both decrees and determinations. Local groundwater rights are associated with the service area components, Sterling, and the Retreat. Each of these sites has existing decrees and/or determinations outlining the rights associated with the development lands.

The most recent water rights added to the Sterling Ranch Inventory is case 20 CW 3059, included in **Appendix C.** This case adjudicates certain groundwater on an adjacent 97-acre parcel known as the Schmidt property, and also provides for the augmentation of Denver and Arapahoe not non-tributary water on the Schmidt and Sterling Ranch properties. This addition will allow for an additional 283.16 AF <sub>300 year</sub> to be made available through Sterling Ranch wells.

Table 3 on the following page details all of the water rights currently available for the FAWWA service area. This table presents a current water supply of 1903.03 annual acre-feet on a 300 year basis.

In addition to groundwater adjudicated under the various service areas, Sterling has contracted for numerous off-site groundwater acquisitions, which include three major sites. The Table also includes all contingent supplies which include water under contract at McCune and Bar-X. These contractual arrangements allow for Sterling Ranch to "take down" or purchase inventories over time to match needs as growth occurs. These supplies are further detailed in Table 3 (continued).

# RESPEC



<u>Update May 20, 2023</u>

Land Formation/Aquifer	Reference Finding/ Determination/ Decree	Trib utary Status	Volume	Annual Allocation 100 Year	Annual Allocation 300 Year	Reference Deed	Notes	Sand Thickness	Saturated Specific Vield
			Acm-Feet -Ste Sterling Wa	A-F/Year ter Legal Sources	A-FYYear	I	I		
Laramie Fox Hills	86-CW-19	NT ON	-516 Sterling Wa	539.00	179.67	1	Under 1410 acres	255	15%
	08CW113	NT	40	0.40	0.13	FAWWA Assignment from SR Water	Under 41.44 acres, reduced to 1.44 acres		
Arapahoe	86-CW-18	NT	57500	575.00	191.67		Under 1410 acres	240	1786
Laramie Fox Hills	91 CW 35	NT	3623	36.23	12.08	Quit Claim	Raygor Water	183	15%
Arapahoe	91 CW 35	NT	49 36	49.36	16.45	Quit Claim	Raygor Water	220	15%
Total NT On-Site					400.00				
Laramie Fox Hills	20 CW 3059	20 CW 3059 . NT	Additional On-Siz 2780	te and Augmented 27,80	i Sterling Water. 9.27	Legal Sources	97.54 acres SR Quarry	190	
	20CW 3059	NNT	4311	43.11	14.37		(Note 5)	260.5	
Arapahoe	20CW 3059 20CW 3059						97.54 acres SR Quarry (Note 5)	260.5	
Denver	20CW 3059	NNT	4556	45.56	15.19	FAWWA Assignment from SR Water See Bar-X below for Post	97.54 acres SR Quarry (Note 5)	295.2	
Denver	08CW113 Aug 20CW 3059	NNT	72893	728.93	242.98	Bar-A below for Post Pumping Depletions	Sterling Ranch 1410 acres		
Arapahoe	08CW113 Aug 20CW 3059	NNT	60	0.60	0.20		Sterling Ranch 41.44 reduced to 1.44 acres		
Total from 20 CW 3059	Aug 200 H 5059	84600			282.00	1	Sterning Forich 41.44 feduced to 1.444 acres		
	•					•			
Laramie Fox Hills		<u>Off site Bar-X</u> NT	Ground Water S 42,700	<u>2017ces (Note 4)</u> 427.00	142.33		Water purchased in First Tranche from Bar-X	200	15%
Larante Fox Fills	93-CW-018/(85 CW 445)	M	42,700	427.00	41.67		Special Warranty Shamrock/Bar-X Rights	200 1840 acres	15%
Arapahoe	93-CW-018/(85 CW 445)	NT	74250	742.50	247.50		Special Warranty Shamree &Bar-X Rights	260	17%
			4800	48.00	16.00		Water purchased in First Tranche from Bar-X	1840 acres	
Denver	93-CW-018/(85 CW 445)	NT	119900	1199.00	399.67		Special Warranty Shamrock/Bar-X Rights	435	17%
		NT	6100	61	20.3		Water purchased in First Tranche from Bar-X	1840 acres	
		NT	-82167	-821.67	-273.89	Net Set Aside for Sterling Ran	ch Post Pumping Depletions (20 CW 3059)		
Dawson	93-CW-018	NNT	128800	1288.00	0.00		Need Augmentation Plan	490	20%
Total Net Supply from Bar-X			178,083		593.61				
			West Ground Wo						
Dawson	85 CW131	NNT	49,800	498	0.00		Needs Augmentation		
Denver NNT Denver NT	85 CW131 85 CW131	NNT NT	105,700 18,700	1057 187	0.00 62.33	Special Warranty Deed	Needs Augmentation		
Arapahoe NNT	85 CW131	NNT	2,500	25	0.00	Bar-X Shamrock West	Needs Augmentation		
Arap a hoe NT	85 CW131	NT	47,400	474	158.00				
Total Shamrock West			66,100	66 1.00	220.3		1		
Laramie Fox Hills	1689-BD	Off site McCun NT	e Ground Water ; 26,300	Sources (Note 5) 263.00	87.67		900 52 acres		
Arapahoe	1690-BD	NT	39800	398.00	132.67	Special Warranty Deed Mc Cune	900.52 acres		
Denver	169 1-BD	NT	51300	513.00	171.00		900.52 acres 1.500 AF Retained		
Total Net Supply Mc Cune			117,400		391.33				
			<u>On-Site Retre</u>	at Water Legal Sc	urces (Note 1)				
Laramie Fox Hills in title)	17CW3002	NT NT	6,440 -612				Under 225.97 acres	190	15%
LFH (Relinquishment)	18CW3002	NT	-2,796		3,032		PPD Augmenting 29 wells		
			3,032	30.32	10.11				
Arapahoe	17CW3002	NT	9,796	97.96	32.65		Under 225.97 acres	255	17%
			12,828	128.28	42.76				
Sugmondation (Larson FINT) Logal Supply: Phase 2	1443 19 19 19 19 19 19 19 19 19 19 19 19 19	Anis	2,796	23 96	9 33	29 Stugle Family Wells (Phase 3 texcloring Lots 11-			
Legal Supply: Phase 2 (excluding Late 14-12), Late 32:41 af Phase 4.					9.32	12): Lots 39, 40 & 41 of Fhan 4, 4: 5]	Replace a num of 47% of panaging		
Long 39.41 of Phase 4. Augustaliation (Dowson NIT)	and the second	Ang	1567.0	15 65	9.32	108323	Residence actual denie Incas		
Legal Supply Please 1					5.23	10 Single Panity Walls (Plane 1)			
Currently Available (Mf Ste Gro	und Nator Legal Sources								
Augiaeniation (Desseon NIT)	lace and the	neg	240.0	2.40	0.80	2 Snigle Fundo Wells (Plose 2 - Late 1 (212)	Persons a real of 34% of partying		
(Phase 2)			2,19.0						
G. 1976 13			1 (38.8	1 14	ti.8				

<u>Table 3</u> Falcon Area Water and Wastewater Authority <u>Comprehensive Water Supply Inventory</u> <u>Current Legal Supply</u>

Note 1. The water listed in the hatched area will be used to serve single family wells and is not inchaled in the Total Available for the Central System

Total Current 300-Year Water Supply (AF)

1930.03 Acro-Feet :Legal Water Supply For Fakon Area Water and Wastewater Authority

1930.03	Central System	
FAWWA On-	Site Supplies	

FAWWA Off-Site Supplies

F AWWA Retreat Water Supplies
Retreat Wells private wells not included in Calculation

Respec, Inc

JDS-Hydro Consultants, Inc



#### 3.2 ADEQUACY OF WATER RIGHTS CURRENT SUPPLY

The current water rights inventory by area is as follows:

1	Sterling original or	400.0 AF <sub>300 year</sub>	
1	02 CW 3059	282.00 AF <sub>300 year</sub>	
1	Retreat at Timber	Ridge on-site rights –	42.76 AF <sub>300 year</sub>
1	McCune	BD-1689, BD-1690, BD-1691	391.33 acre-feet <sub>300 year</sub>
1	Bar-X Ranch	85CW-445 and 93 CW-018	593.61 acre-feet 300 year
1	Shamrock West	85 CW 131	220.3 acre-feet 300 year

Sterling-owned and currently available on-site NT and adjudicated not non-tributary (NNT) water totals are 1930.03  $AF_{300 year}$ , which would be adequate supply to meet the needs of 5,468 SFE.

As of this report May 31, 2023, the total water commitment within SRMD requires 900.76  $AF_{300 year}$ . See Appendix F – FAWWA Water Supply vs Current Water Commitments.

This leaves a net excess of currently available water of 1029.40  $AF_{300 year}$  and therefore there is more than sufficient water supply to meet the needs of Retreat at Timberidge Filing No 3 on the 300-year basis.

#### 3.3 MASTER PLANNING AND LONG-TERM AND FUTURE SOURCES OF SUPPLY

The FAWWA water system has only been in operation for three years, so little-to-no usable historic information would be reliable for unique, long-term planning. However, substantial nearby data from the Falcon area is available for use. As of the end of 2021, the system had approximately only 300 active users. Therefore, initial projections have been based on area-wide water user characteristics and a linear buildout rate. This rate is considered to be an average annual rate that might be reasonably maintainable over a 10-year period. The average growth rate is projected as 180 units added per year.

- / 2040 Scenario: Based on the above factors, the FAWWA system might conservatively anticipate serving 3,710 SFEs in the year 2040. This number is a service area projection and includes the Retreat and The Ranch, as well as the main Sterling Ranch residents. This would require 1,310 annual AF of water.
- / 2060 Scenario: Based on the same factors, the Sterling system might be expected to serve 7,310 SFEs within its expanded service area, which includes the Retreat and The Ranch. This would be substantially greater than the actual Sterling Ranch. The annual acre-foot requirement might be 2,580 annual AF, but supply would include water from The Ranch.

In order to meet future demands, contractual arrangements have been made to obtain additional legal and physical supply to meet growing demands, outlined herein:

I The McCune Water SR Water LLC has contracted with the McCune Ranch to purchase NT water rights in El Paso County. These water rights include Laramie-Fox Hills, Arapahoe, and Denver formation water, totaling 118,900 AF. Some additional NNT water is included, but is not included in this calculation at this time.







/ The Bar-X water has also been contracted for in a similar manner; some water has already been purchased, but remaining Laramie-Fox Hills, Arapahoe, and Denver formation water totals 204,433 AF. Some additional NNT water is included, but not included in this calculation at this time.

In addition to adding off-site sources, potential, additional supplies include renewable resources and/or regional projects bringing new water to the area

**Long-Term Planning:** Future water supply has already been purchased and is in the FAWWA inventory. Plans for implementation are being finalized and construction of facilities will begin in 2023. The first project recently completed provides augmentation for certain on-site NNT water, so that that water may be used in existing and expanded well fields on-site.

- Bar-X Northern Delivery Project: To extend supplies beyond 1,975 SFEs, the McCune and Bar-X contracts for water acquisition will require a major pipeline to be extended northerly to Hodgen Road. This pipeline system will allow for the physical, as well as legal, availability and acquisition of both McCune and Bar-X water to Sterling. Preliminary routing, environmental assessments, and 1041 applications are presently underway for this facility. As discussed previously, development beyond 1,975 SFEs will require the addition of this pipeline.
- 2. **McCune and Bar-X Acquisitions:** The off-site acquisitions discussed previously will be exercised as needed to continually add to the Sterling supply.

McCune	Acre-feet NT
1689-BD LFH	26,300
1690-BD Arapahoe	39,800
1691-BD Denver	52,800

There is a 1,500 AF set aside, reducing the Denver formation portion of the McCune supply and leaving a net total of 117,400 acre-feet of NT water, which yields a **391.33**  $AF_{300}$  supply, adding the capacity for an additional 1,109 SFE capacity.

Remaining Unpurchased Bar-X Supply	Acre-feet NT
93-CW018 Arapahoe	73,800
93-CW018 Denver	130,633
Minus (set-asides)	-19,098

There is additional Dawson NNT water included in the purchase arrangement, but no current augmentation plan is under consideration, so it is not counted here. Thus, there is a net total of 204,433 acre-feet of NT unpurchased Bar-X water, which yields a **617.78** AF<sub>300</sub> supply, adding the capacity for an additional 1,750 SFE capacity.

3. **Regionalization Opportunities:** FAWWA's main supply source is centralized at a point that both Cherokee Metropolitan District and Woodmen Hills Metropolitan District have adjacent major storage and delivery facilities. There are currently no arrangements in place





to make connections, but in the future, SRMD may seek to have interconnections and possibly share supply.

The second element is a much broader regionalization: conducting cooperative actions with Colorado Springs Utilities (CSU), which SRMD has been open to. CSU is potentially also open to shared physical facility utilization, which would enable Sterling to expand its scope in seeking water rights. While it is not expected that Sterling will provide actual water, the access to facilities opens greater doors for SRMD.

4. Indirect, Reuse, Lawn Irrigation Return Flows (LIRF) Credits, Aquifer Storage/Recharge, and Direct Reuse: Regarding return flows, initial development is being planned around sourcing available physical supplies. These supplies are all fully-consumable and ultimately result in potential return-flow capabilities. Since SRMD wastewater is discharged to the Meridian system, which in turn has the potential to convert some reusable flows to available physical supplies, those options will be available and considered by Sterling. With regard to LIRF credits, Sterling has already initiated a case that will make augmentation use of its potential LIRF credits.

#### **3.4 SYSTEM INTERCONNECTS**

FAWWA currently has no system interconnections. However, as discussed previously, FAWWA's main supply source is centralized at a point that both Cherokee Metropolitan District and Woodmen Hills Metropolitan District have adjacent major storage and delivery facilities. It is possible that future agreements could be made.

#### 3.5 SOURCE OF PHYSICAL SUPPLY

Municipal water demand would be met using primarily Arapahoe and Laramie-Fox Hills formation wells in the SRMD area. The first well site will be drilled with an Arapahoe Well (A-1) and Laramie-Fox Hills Well (LFH-1); well site #1 includes both an Arapahoe and a Laramie-Fox Hills well. Additional permits will be obtained as needed to ultimately continue to add to the system as needed. Existing well permits are included in **Appendix D**.

Off-site water to the north of the SRMD service area is generally in the Denver and Arapahoe formations.

#### **3.6 WATER QUALITY AND TREATMENT**

**Appendix E** contains the water quality reports for the initial wells drilled at Sterling Ranch. The quality is generally consistent with Denver Basin water typically encountered in the Falcon area. The quality of water in these aquifers in this area has typically been suitable for potable use with the addition of iron and manganese treatment.



#### 3.7 WATER STORAGE, DISTRIBUTION, AND TRANSMISSION LINES

An initial 1.0-million-gallon tank has already been constructed at the SRMD site.



For the purpose of fire protection, we recommend eight-inch lines throughout the residential subdivision. The lines should be looped wherever the street layout allows. A transmission line of 24-inches in diameter has been extended south-southwesterly along one of the major roadways from the storage tank into Phase One of the development.

#### **3.8 PUMPING FOR SERVICE PRESSURES**

Ground elevations within the development service area range from approximately 6,970 feet to 7,320 feet. Adequate service pressures are generally considered 60 psi for residential service. The tank site is on the Sterling property at a base elevation of approximately 7,310 feet, which would be capable of supplying acceptable service pressures to ground elevations of approximately 7,190 feet. Initial development is anticipated to be at elevations below 7,190 feet, so the tank site will be able to provide adequate pressure.

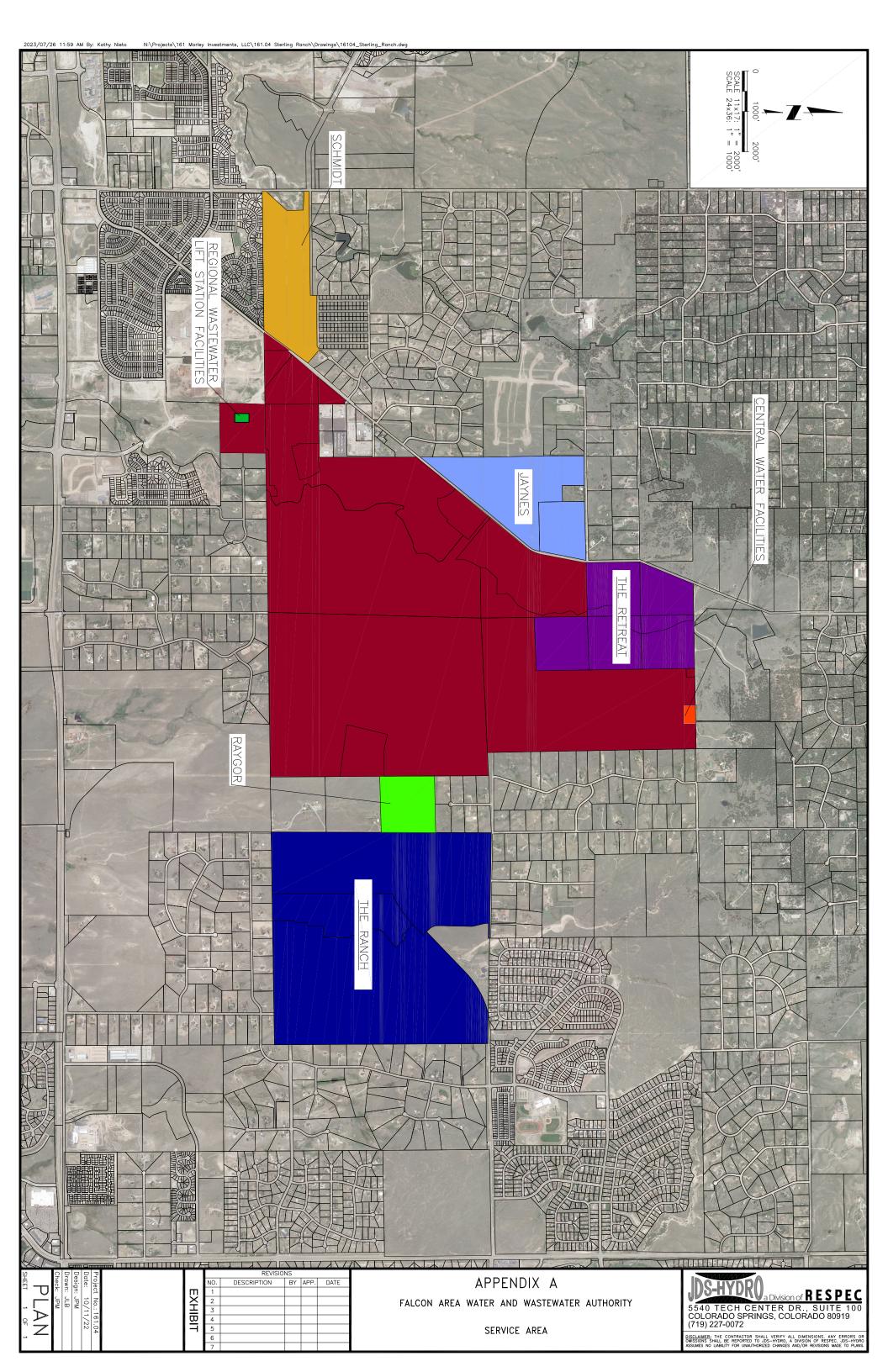
As development construction progresses, FAWWA plans to construct the northern transmission line to bring in the off-site water contracted for. Because the storage tanks are located at a high elevation, there is substantial pressure for residential service and fire flow for the initial development of FAWWA and all of the Ranch.

# APPENDIX A WATER SERVICE AREAS









### **APPENDIX B**

## **RETREAT AT TIMBERRIDGE FILING NO. 3**







**RESPEC.COM** 

#### BE IT KNOWN BY THESE PRESENTS:

THAT TIMBERRIDGE DEVELOPMENT GROUP, LLC, A COLORADO LIMITED LIABILITY COMPANY BEING THE OWNER OF THE FOLLOWING DESCRIBED TRACT OF LAND TO WIT:

#### LEGAL DESCRIPTION:

A PARCEL OF LAND BEING A PORTION OF SECTIONS 21, 22, 27 AND 28, ALL IN TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

MORE PARTICULARLY DESCRIBED AS FOLLOWS:	
BASIS OF BEARINGS: THE SOUTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE WEST END WHICH IS THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 28, BY A 3–1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI PLS 10376, 2006" AND AT THE EAST END, WHICH IS A 30' WITNESS CORNER TO THE EAST OF THE EAST QUARTER CORNER OF SAID SECTION 28, BY A 3–1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI 10376, 2006", IS ASSUMED TO BEAR S89'08'28"W A DISTANCE OF 1356.68 FEET.	
COMMENCING AT THE CENTER-EAST 1/16 CORNER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, SAID POINT BEING ALSO ON THE SOUTHERLY RIGHT OF WAY LINE OF POCO ROAD AS PLATTED IN RETREAT AT TIMBERRIDGE FILING NO. 1 RECORDED UNDER RECEPTION NO. 220714653;	OWNERS CERTIFICATE: THE UNDERSIGNED, BEING ALL THE OWNERS, MC AND HOLDERS OF OTHER INTERESTS IN THE LAP
<ul> <li>TIMBERRIDGE FILING NO. 1 RECORDED UNDER RECEPTION NO. 220714653;</li> <li>THENCE N09'49'11"E, A DISTANCE OF 2334.95 FEET TO A POINT ON THE EASTERLY RIGHT OF WAY LINE OF VOLLMER ROAD AS DESCRIBED IN A DOCUMENT RECORDED IN BOOK 2678 AT PAGE 430 SAID POINT BEING THE POINT OF BEGINNING;</li> <li>THENCE N21'41'10"E, ON THE EASTERLY RIGHT OF WAY LINE OF SAID VOLLMER ROAD, A DISTANCE OF 520.94 FEET;</li> <li>THENCE S08'26'02"E, A DISTANCE OF 147.97 FEET TO A POINT OF CURVE;</li> <li>THENCE NO THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 21'53'35", A RADIUS OF 560.00 FEET AND A DISTANCE OF 33.03 FEET TO A POINT OF TANGENT;</li> <li>THENCE NO THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 01'01'28", A RADIUS OF 1980.00 FEET AND A DISTANCE OF 35.03 FEET TO A POINT OF TANGENT;</li> <li>THENCE N83'85'55", A DISTANCE OF 60.91 FEET TO A POINT OF TANGENT;</li> <li>THENCE N88'38'55", A DISTANCE OF 60.91 FEET TO A POINT ON THE NORTH LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, LL PASO COUNTY, COLORADO;</li> <li>THENCE N88'38'55", ON THE NORTHWEST QUARTER OF SAID SECTION 27;</li> <li>THENCE N88'38'55", A DISTANCE OF 198.00 FEET TO A POINT ON CURVE;</li> <li>THENCE N77'00'00"W, A DISTANCE OF 198.00 FEET TO A POINT ON CURVE;</li> <li>THENCE SOT'34'30", A ADISTANCE OF 198.00 FEET TO A POINT ON CURVE;</li> <li>THENCE SOT'34'30", A ADISTANCE OF 198.00 FEET TO A POINT ON CURVE;</li> <li>THENCE SOT'34'30", A ADISTANCE OF 198.00 FEET TO A POINT ON CURVE;</li> <li>THENCE SOT'34'30", A ADISTANCE OF 198.00 FEET TO A POINT ON THE NORTHWEST GUARTER OF THE NORTHWEST CURARTER OF AD A DISTANCE OF 198.00 FEET;</li> <li>THENCE SOT'34'30", A ADISTANCE OF 198.00 FEET TO A POINT ON THE NORTHERLY BOUNDARY OF SAID RETREAT AT TIMBERRIDGE FILING NO. 1;</li> <li>THENCE SOT'34'30", A DISTANCE OF 243.74 FEET;</li> <li>THENCE SOT'34'30", A DISTANCE OF 243.74 FEET;</li> <li>THENCE SOT'34'30", A DISTANCE OF 243.77 FEET;</li> <li>T</li></ul>	
THENCE N36'37'30"E, A DISTANCE OF 200.00 FEET; THENCE N35'37'50"E, A DISTANCE OF 108.98 FEET; THENCE N27'50'00"E, A DISTANCE OF 94.45 FEET; THENCE N19'43'22"E, A DISTANCE OF 100.00 FEET; THENCE N18'00'00"E, A DISTANCE OF 103.72 FEET; THENCE N16'19'41"W, A DISTANCE OF 107.28 FEET; THENCE N16'19'41"W, A DISTANCE OF 155.30 FEET; THENCE N16'19'41"W, A DISTANCE OF 256.15 FEET; THENCE N00'00'00"E, A DISTANCE OF 258.46 FEET; THENCE N00'00'00"E, A DISTANCE OF 258.46 FEET; THENCE N86'05'18"W, A DISTANCE OF 258.40 FEET; THENCE N90'00'00"E, A DISTANCE OF 258.40 FEET; THENCE N90'00'00"E, A DISTANCE OF 378.68 FEET; THENCE N12'00'00"E, A DISTANCE OF 490.00 FEET; THENCE N12'00'00"E, A DISTANCE OF 490.00 FEET; THENCE N12'00'00"W, A DISTANCE OF 400.00 FEET TO A POINT ON CURVE; THENCE N14'51'36", A RADIUS OF 60.00 FEET AND A DISTANCE OF 120.28 FEET TO A POINT ON CURVE; THENCE N46'30'00"W, A DISTANCE OF 243.59 FEET; THENCE N46'30'00"W, A DISTANCE OF 40.00 FEET TO THE POINT OF BEGINNING. CONTAINING A CALCULATED AREA OF 44.578 ACRES.	<ol> <li>THE DATE OF PREPARATION IS FEBRUARY 18,</li> <li>THE TRACT OF LAND HEREIN PLATTED LIES WI 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN.</li> <li>LOT 1: UNLESS SHOWN GREATER IN WIDTH, BO TEN (10) FOOT EASEMENT FOR PUBLIC UTILITIE (20) FOOT EASEMENT FOR PUBLIC UTILITIES A FRONT AND/OR SIDE OF ANY LOT ABUTTING A IMPROVEMENT PURPOSES, AND A TEN (10) FO WITH THE SOLE RESPONSIBILITY FOR MAINTENA LOTS 2 – 11 AND 31 –33: UNLESS SHOWN G HEREBY PLATTED WITH A TEN (10) FOOT EASE PLATTED WITH A TEN (10) FOOT EASEMENT FO EASEMENT ALONG THE FRONT AND/OR SIDE O UTILITIES AND IMPROVEMENT PURPOSES, AND PUBLIC UTILITIES, WITH THE SOLE RESPONSIBIL PROPERTY OWNERS.</li> <li>LOTS 12 – 30: UNLESS SHOWN GREATER IN W WITH A FIVE (5) FOOT EASEMENT FOR PUBLIC SEVEN (7) FOOT EASEMENT FOR PUBLIC UTILIT THE FRONT AND/OR SIDE OF ANY LOT ABUTTI IMPROVEMENT PURPOSES, AND A TEN (10) FO WITH THE SOLE RESPONSIBILITY FOR MAINTENA</li> </ol>
ACCEPTANCE CERTIFICATE FOR TRACTS THE DEDICATION OF TRACTS A THRU C WITH USE STATED IN THE TRACT TABLE, ARE HEREBY ACCEPTED FOR MAINTENANCE BY THE RETREAT METROPOLITAN DISTRICTS NO. 1. BY: AS: OF THE RETREAT METROPOLITAN DISTRICT NO. 2. STATE OF COLORADO )	<ol> <li>THE FOLLOWING REPORTS HAVE BEEN SUBMITT DEVELOPMENT: SOILS AND GEOLOGICAL STUDY CONTROL REPORT AND TRAFFIC STUDY IN FILE</li> <li>THE TOTAL NUMBER OF LOTS BEING PLATTED</li> <li>ALL PROPERTY WITHIN THIS SUBDIVISION IS INC EVIDENCED BY INSTRUMENTS RECORDED UNDEF WITHIN THIS SUBDIVISION IS INCLUDED IN THE INSTRUMENT RECORDED UNDER RECEPTION NO.</li> </ol>
) ss COUNTY OF EL PASO ) THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS DAY OF, 20, A.D. BY, AS , OF THE RETREAT METROPOLITAN DISTRICT NO. 2.	<ol> <li>DEVELOPER SHALL COMPLY WITH FEDERAL AND REQUIREMENTS, AND OTHER AGENCY REQUIREM LIMITED TO, THE COLORADO DEPARTMENT OF F U.S. ARMY CORP. OF ENGINEERS, THE U.S. FIS WILDLIFE REGARDING THE ENDANGERED SPECIE</li> <li>THE ADDRESSES ( ) EXHIBITED ON THIS PL LEGAL DESCRIPTION AND ARE SUBJECT TO CH</li> <li>FLOODPLAIN STATEMENT:</li> </ol>
MITNESS MY HAND AND OFFICIAL SEAL. MY COMMISSION EXPIRES:	<ul> <li>THIS SITE, RETREAT AT TIMBERRIDGE FILING NO DETERMINED BY THE FLOOD INSURANCE RATE (ZONE X AND AE)</li> <li>BFE'S (BASE FLOOD ELEVATIONS) INDICATED H GIS MAPS.</li> <li>10. NO LOT OR INTEREST THEREIN, SHALL BE SOLI CONTRACT, NOR SHALL BUILDING PERMITS BE COMMON DEVELOPMENT IMPROVEMENTS HAVE FIN ACCORDANCE WITH THE SUBDIVISION IMPROVEMENT AS DECORDED INDERFORMED</li> </ul>
AS: OF THE RETREAT METROPOLITAN DISTRICT NO. 2. STATE OF COLORADO ) )ss COUNTY OF EL PASO ) THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS DAY OF, 20, A.D. BY, AS OF THE RETREAT METROPOLITAN DISTRICT NO. 2.	PASO COUNTY AS RECORDED UNDER RECEPTION RECORDER OF EL PASO COUNTY, COLORADO OF PROVISION FOR THE COMPLETION OF SAID IMPLIE DEVELOPMENT CODE AND ENGINEERING CRITERI APPROVED BY THE BOARD OF COUNTY COMMISS AGREEMENT, BY THE EXECUTIVE DIRECTOR AND COUNTY PRIOR TO THE RELEASE BY THE COUNTY PLAT RESTRICTION MAY BE REMOVED OR RESC PERMITTED BY THE SUBDIVISION IMPROVEMENTS EXECUTIVE DIRECTOR UPON EITHER APPROVAL PRELIMINARY ACCEPTANCE BY THE EL PASO B REQUIRED TO BE CONSTRUCTED AND COMPLET
WITNESS MY HAND AND OFFICIAL SEAL. MY COMMISSION EXPIRES:	AGREEMENT. THE PARTIAL RELEASE OF LOTS F ACCORDANCE WITH ANY PLANNED PARTIAL RE AGREEMENT.

NOTARY PUBLIC

#### OWNERS CERTIFICATE:

ND HOLDERS OF OTHER INTERESTS IN THE LAND DESCRIBED HEREIN, HAVE LAID OUT, UBDIVIDED, AND PLATTED SAID LANDS INTO LOTS, TRACTS, STREETS, AND EASEMENTS AS HOWN HEREON UNDER THE NAME AND SUBDIVISION OF RETREAT AT TIMBERRIDGE FILING NO. 3. ALL PUBLIC IMPROVEMENTS SO PLATTED ARE HEREBY DEDICATED TO PUBLIC USE AND SAID WNER DOES HEREBY COVENANT AND AGREE THAT THE PUBLIC IMPROVEMENTS WILL BE CONSTRUCTED TO EL PASO COUNTY STANDARDS AND THAT PROPER DRAINAGE AND EROSION CONTROL FOR SAME WILL BE PROVIDED AT SAID OWNER'S EXPENSE, ALL TO THE SATISFACTION F THE BOARD OF COUNTY COMMISSIONERS OF EL PASO COUNTY, COLORADO. UPON ACCEPTANCE BY RESOLUTION, ALL PUBLIC IMPROVEMENTS SO DEDICATED WILL BECOME MATTERS F MAINTENANCE BY EL PASO COUNTY, COLORADO. THE UTILITY EASEMENTS SHOWN HEREON ARE HEREBY DEDICATED FOR PUBLIC UTILITIES AND COMMUNICATION SYSTEMS AND OTHER PURPOSES AS SHOWN HEREON. THE ENTITIES RESPONSIBLE FOR PROVIDING THE SERVICES FOR WHICH THE EASEMENTS ARE ESTABLISHED ARE HEREBY GRANTED THE PERPETUAL RIGHT OF NGRESS AND EGRESS FROM AND TO ADJACENT PROPERTIES FOR INSTALLATION, MAINTENANCE, AND REPLACEMENT OF UTILITY LINES AND RELATED FACILITIES.

#### WNER:

XECUTED THIS INSTRUMENT THIS \_\_ DAY OF \_\_\_\_\_, 20\_\_, A.D.

COLORADO LIMITED LIABILITY COMPANY.

VELOPMENT GROUP, LLC, A COLORADO LIMITED LIABILITY COMPANY.

#### NERAL NOTES:

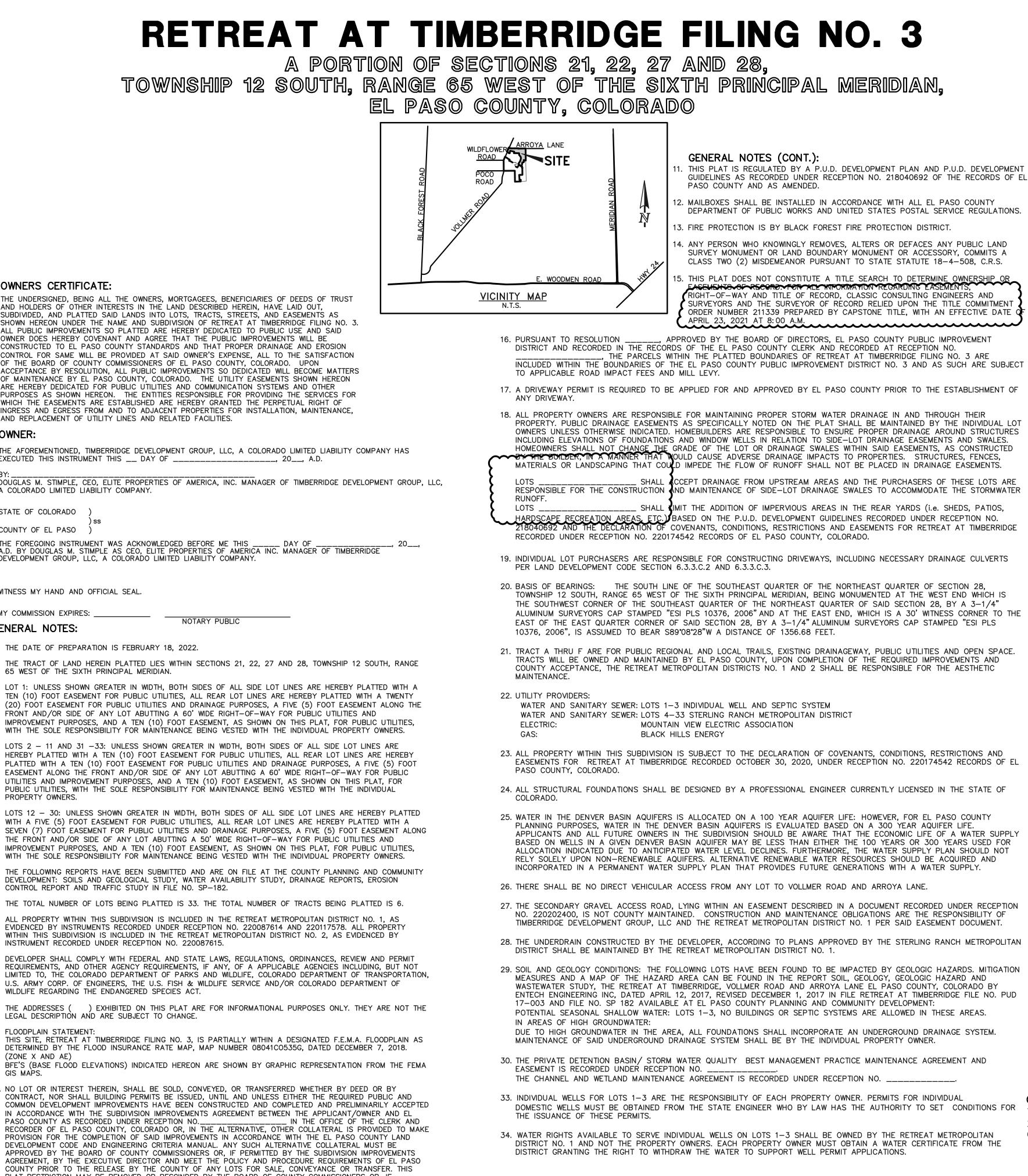
THE DATE OF PREPARATION IS FEBRUARY 18, 2022.

- FRONT AND/OR SIDE OF ANY LOT ABUTTING A 60' WIDE RIGHT-OF-WAY FOR PUBLIC UTILITIES AND

PROPERTY OWNERS.

- CONTROL REPORT AND TRAFFIC STUDY IN FILE NO. SP-182.
- INSTRUMENT RECORDED UNDER RECEPTION NO. 220087615.
- WILDLIFE REGARDING THE ENDANGERED SPECIES ACT.
- LEGAL DESCRIPTION AND ARE SUBJECT TO CHANGE.
- FLOODPLAIN STATEMENT: (ZONE X AND AE) GIS MAPS.
- PLAT RESTRICTION MAY BE REMOVED OR RESCINDED BY THE BOARD OF COUNTY COMMISSIONERS OR, IF PERMITTED BY THE SUBDIVISION IMPROVEMENTS AGREEMENT, BY THE PLANNING AND COMMUNITY DEVELOPMENT EXECUTIVE DIRECTOR UPON EITHER APPROVAL OF AN ALTERNATIVE FORM OF COLLATERAL OR COMPLETION AND PRELIMINARY ACCEPTANCE BY THE EL PASO BOARD OF COUNTY COMMISSIONERS OF ALL IMPROVEMENTS REQUIRED TO BE CONSTRUCTED AND COMPLETED IN ACCORDANCE WITH SAID SUBDIVISION IMPROVEMENTS AGREEMENT. THE PARTIAL RELEASE OF LOTS FOR SALE, CONVEYANCE OR TRANSFER MAY ONLY BE GRANTED IN ACCORDANCE WITH ANY PLANNED PARTIAL RELEASE OF LOTS AUTHORIZED BY THE SUBDIVISION IMPROVEMENTS AGREEMENT.

MY COMMISSION EXPIRES: \_\_\_\_\_



GENERAL NOTES (CONT.):

35. PIKES PEAK REGIONAL BUILDING DEPARTMENT HAS SIGNED AND STAMPED THE MYLARS AT RECEPTION NO. \_\_\_\_\_.

36. THE FENCE ON LOT 1 ALONG VOLLMER ROAD AND THE REAR LOT LINES OF 5, 6, 9, 10 AND 12 THRU 14 SHALL BE INSTALLED BY THE DEVELOPER AND MAINTAINED BY THE INDIVIDUAL LOT OWNER.

37. SEWAGE TREATMENT FOR LOTS 1-6 IS THE RESPONSIBILITY OF EACH PROPERTY OWNER. THE EL PASO COUNTY HEALTH DEPARTMENT MUST APPROVE EACH SYSTEM AND IN SOME CASES THE DEPARTMENT MAY REQUIRE AN ENGINEERED SYSTEM PRIOR TO PERMIT APPROVAL. SUMMARY TABLE:

LOTS	SQUARE FEET	PERCENTAGE	OWNER	MAINTENANCE
TRACT A-C (PUBLIC REGIONA LOCAL TRAILS, EXISTING DRAINAGEWAY, PUBLIC UTILITIES OPEN SPACE)	22,714	1.17%	THE RETREAT DISTRICT NO. 1	THE RETREAT DISTRICT NO. 1
TRACT D-E (PUBLIC REGIONAL LOCAL TRAILS, EXISTING DRAINAGEWAY, PUBLIC UTILITIES OPEN SPACE)	22,612	1.16%		THE RETREAT 2 DISTRICT NO. 2
TRACT F (PUBLIC REGIONAL & LOCAL TRAILS, EXISTING DRAINAGEWAY AND OPEN SPACE)	113,262	5.83%	EL PASO COUNTY	EL PASO AESTHETIC MAINTENANCE BY DISTRICT NO. 2
LOTS (33 TOTAL)	1,480,759	76.26%	INDIVIDUAL	LOT OWNERS
R.O.W.	302,488	15.58%	COUNTY	COUNTY
TOTAL	1,941,835	100.00%		

#### SURVEYOR'S STATEMENT:

. DOUGLAS P. REINELT, A DULY LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THIS PLAT TRULY AND CORRECTLY REPRESENTS THE RESULTS OF A SURVEY MADE ON DATE OF SURVEY, BY ME OR UNDER MY DIRECT SUPERVISION AND THAT ALL MONUMENTS EXIST AS SHOWN HEREON; THAT MATHEMATICAL CLOSURE ERRORS ARE LESS THAN 1:10.000; AND THAT SAID PLAT HAS BEEN PREPARED IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS OF THE STATE OF COLORADO DEALING WITH MONUMENTS, SUBDIVISION, OR SURVEYING OF LAND AND ALL APPLICABLE PROVISION OF THE EL PASO COUNTY LAND DEVELOPMENT CODED.

I ATTEST THE ABOVE ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_.

DOUGLAS P. REINELT, PROFESSIONAL LAND SURVEYOR DATE COLORADO P.L.S. NO. 30118 FOR AND ON BEHALF OF CLASSIC CONSULTING, ENGINEERS AND SURVEYORS, LLC.

#### NOTICE:

ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.

#### BOARD OF COUNTY COMMISSIONERS CERTIFICATE

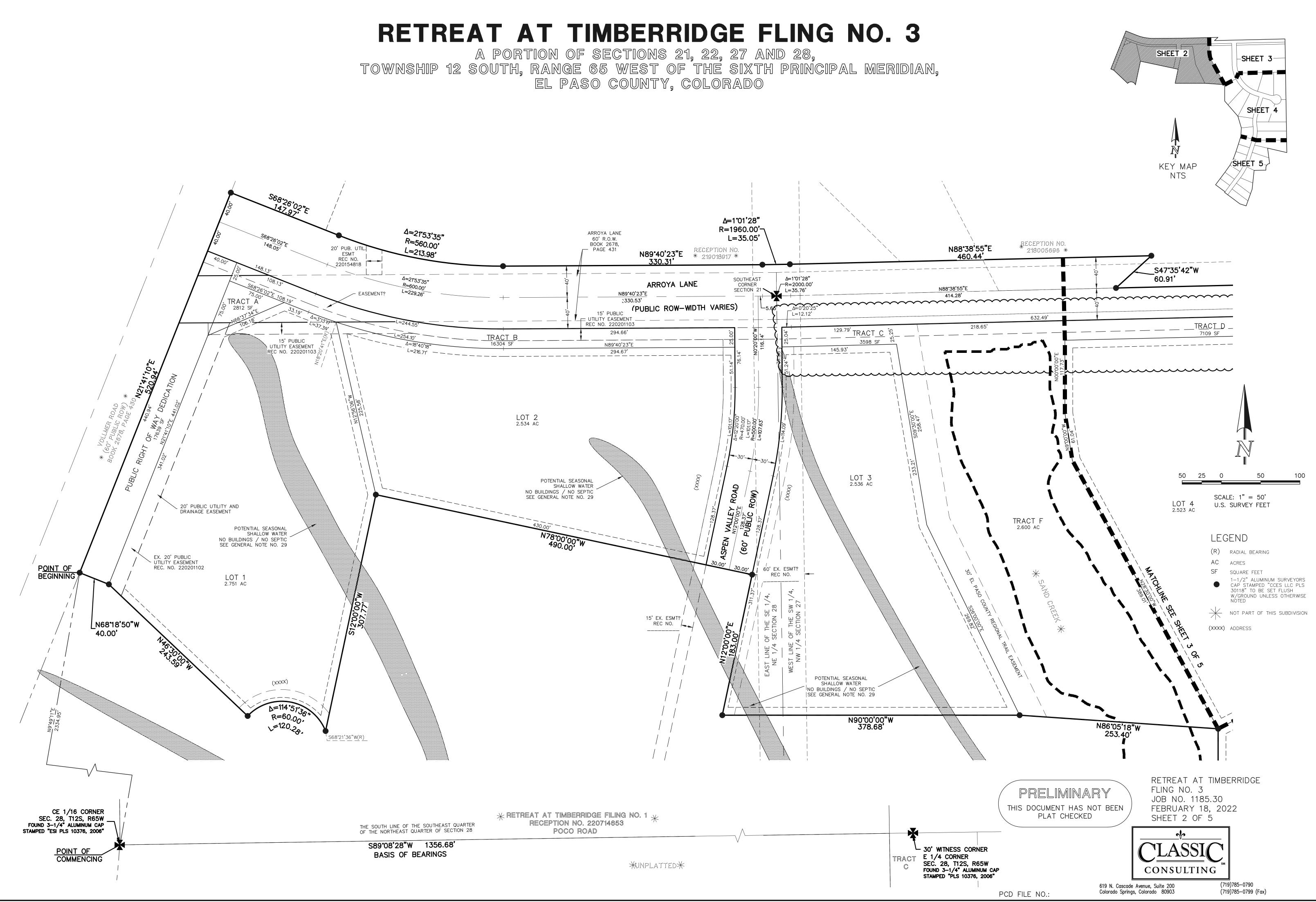
THIS PLAT FOR RETREAT AT TIMBERRIDGE FILING NO. 3 WAS APPROVED FOR FILING BY THE EL PASO COUNTY, COLORADO BOARD OF COUNTY COMMISSIONERS ON THIS\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_, SUBJECT TO ANY NOTES SPECIFIED HEREON AND ANY CONDITIONS INCLUDED IN THE RESOLUTION OF APPROVAL. THE DEDICATIONS OF LAND TO THE PUBLIC STREETS, PUBLIC EASEMENTS AND TRACTS A AND C ARE ACCEPTED. BUT PUBLIC IMPROVEMENTS THEREON WILL NOT BECOME MAINTENANCE RESPONSIBILITY OF EL PASO COUNTY UNTIL PRELIMINARY ACCEPTANCE OF THE PUBLIC IMPROVEMENTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE AND ENGINEERING CRITERIA MANUAL, AND THE SUBDIVISION IMPROVEMENTS AGREEMENT.

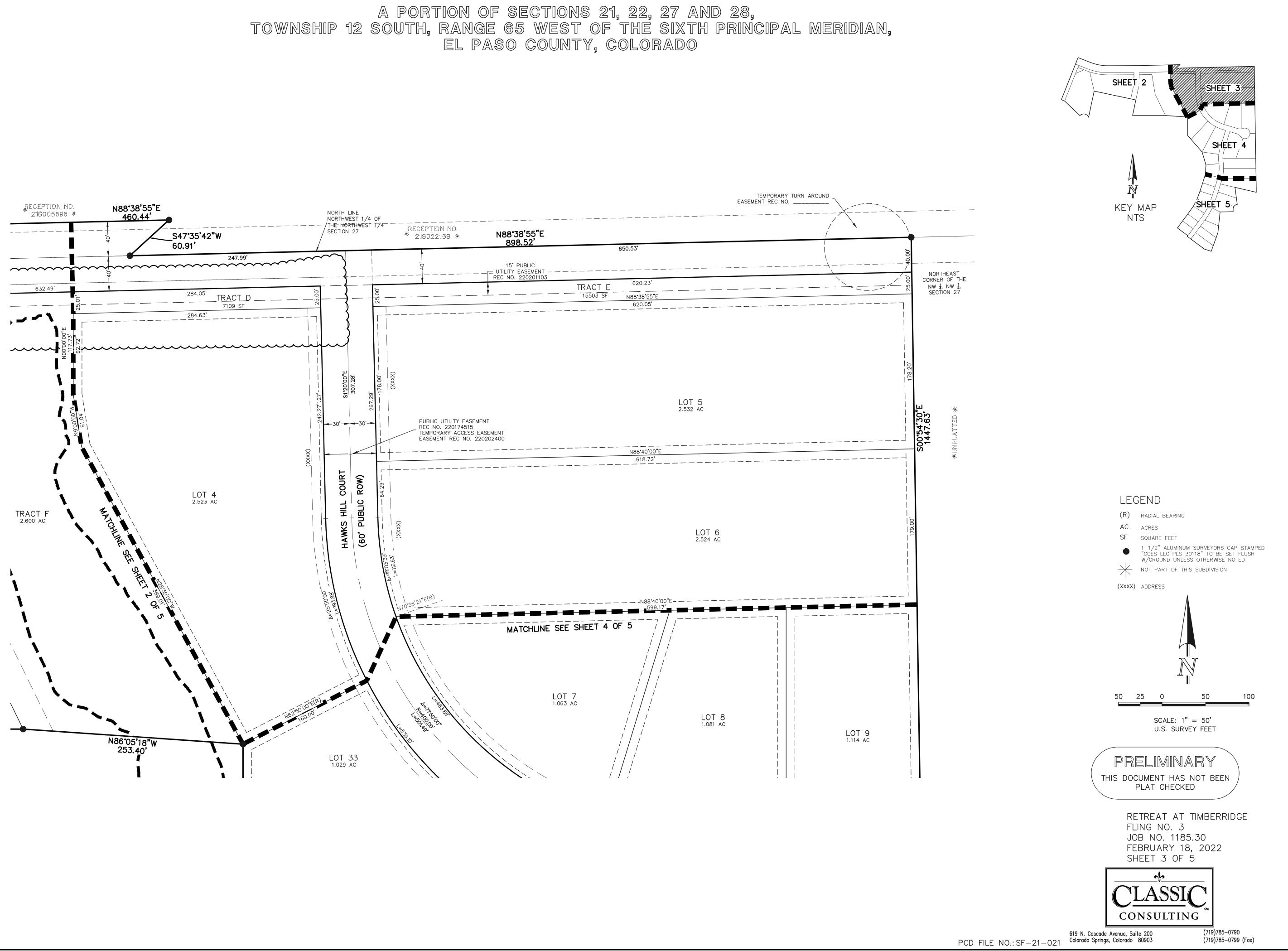
CHAIR, BOARD OF COUNTY COMMISSIONERS	DATE
EXECUTIVE DIRECTOR OF PLANNING AND COMMUNITY DEVELOPMENT	Y DATE
COUNTY ASSESSOR	DATE
CLERK AND RECORDER:	
STATE OF COLORADO	
) ss COUNTY OF EL PASO )	
I HEREBY CERTIFY THAT THIS INSTRUMENT WAS O'CLOCKM. THISDAY OF, AT RECEPTION NO COLORADO.	20, A.D., AND IS DULY RECORDED
CHUCK BROERMAN, RECORDER	
BY: DEPUTY	
DRAINAGE: <u>SAND CREEK</u>	
BRIDGE FEES:	
URBAN PARK:	/ PRELIMINARY \
REGIONAL PARK:	THIS DOCUMENT HAS NOT BEEN
SCHOOL FEE: FALCON SCHOOL DISTRICT NO. 49 ACADEMY SCHOOL DISTRICT NO. 20	PLAT CHECKED
MBERRIDGE DEVELOPMENT GROUP, LLC FILING 138 FLYING HORSE CLUB DRIVE JOB N OLORADO SPRINGS, CO 80921 FEBRU	AT AT TIMBERRIDGE NO. 3 O. 1185.30 ARY 18, 2022 1 OF 5
	SSIC JLTING

PCD FILE NO .:

619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903

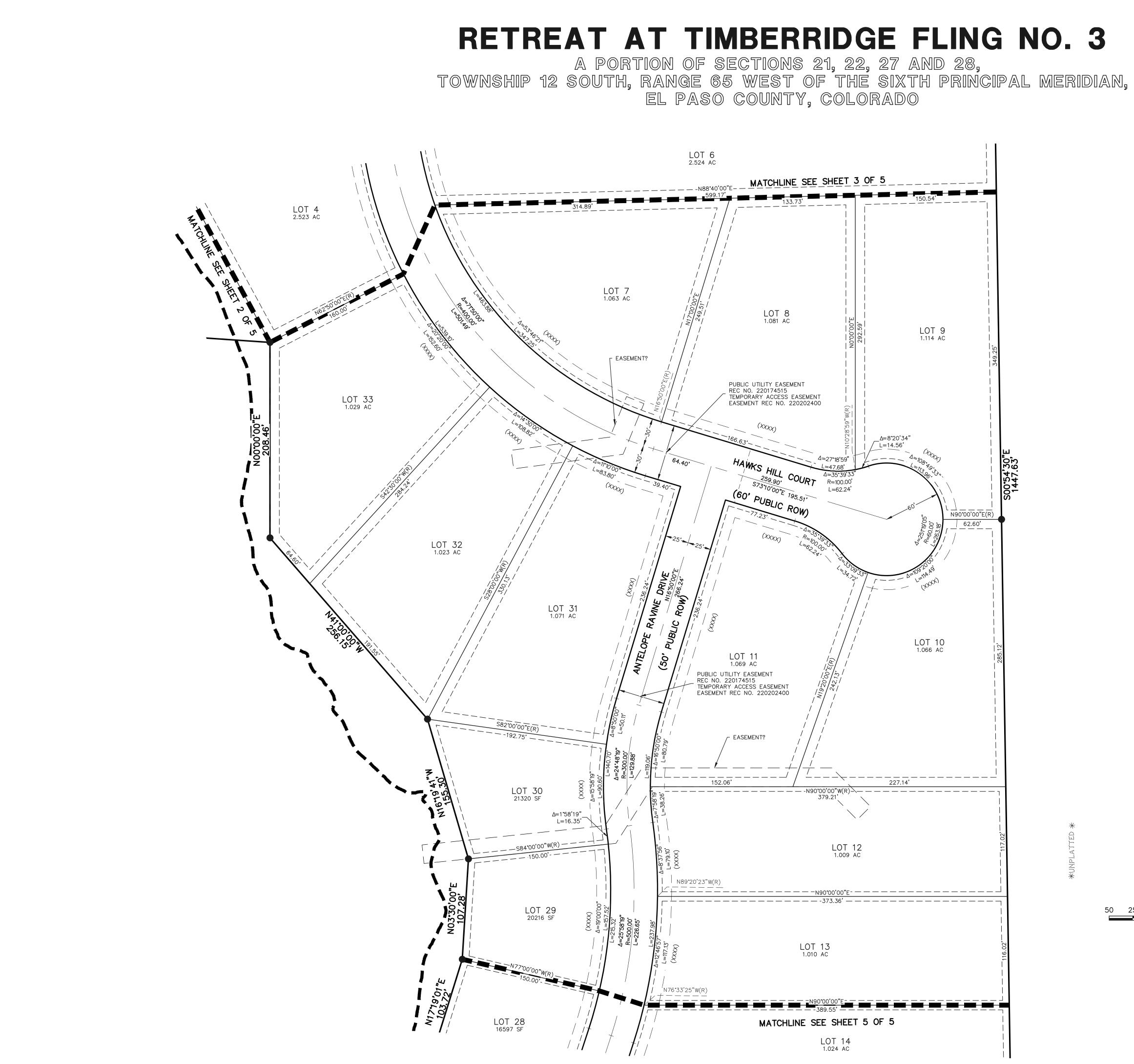
(719)785–0790 (719)785-0799 (Fax)

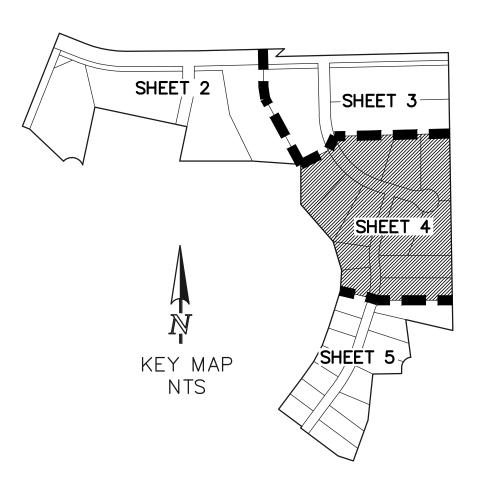




# **RETREAT AT TIMBERRIDGE FLING NO. 3**

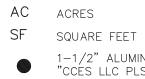






#### LEGEND

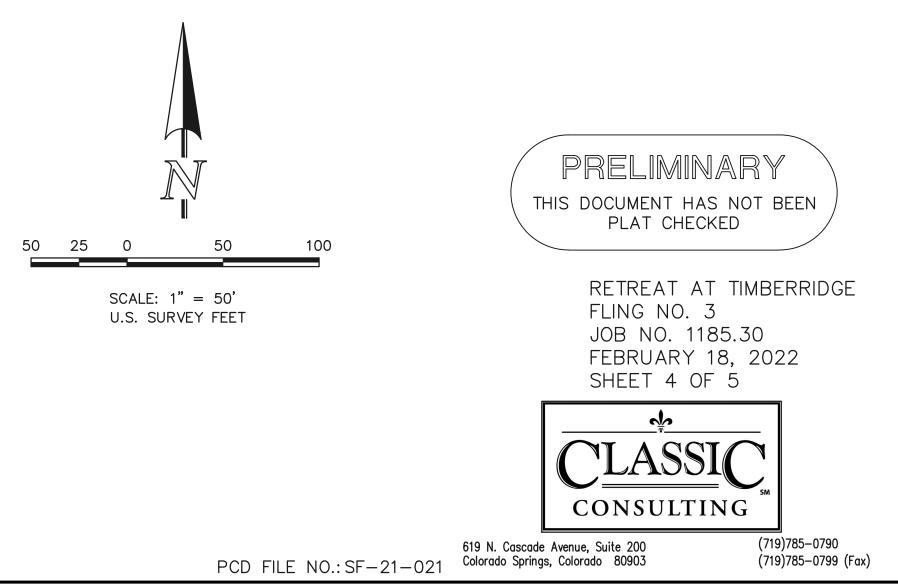
(R) RADIAL BEARING



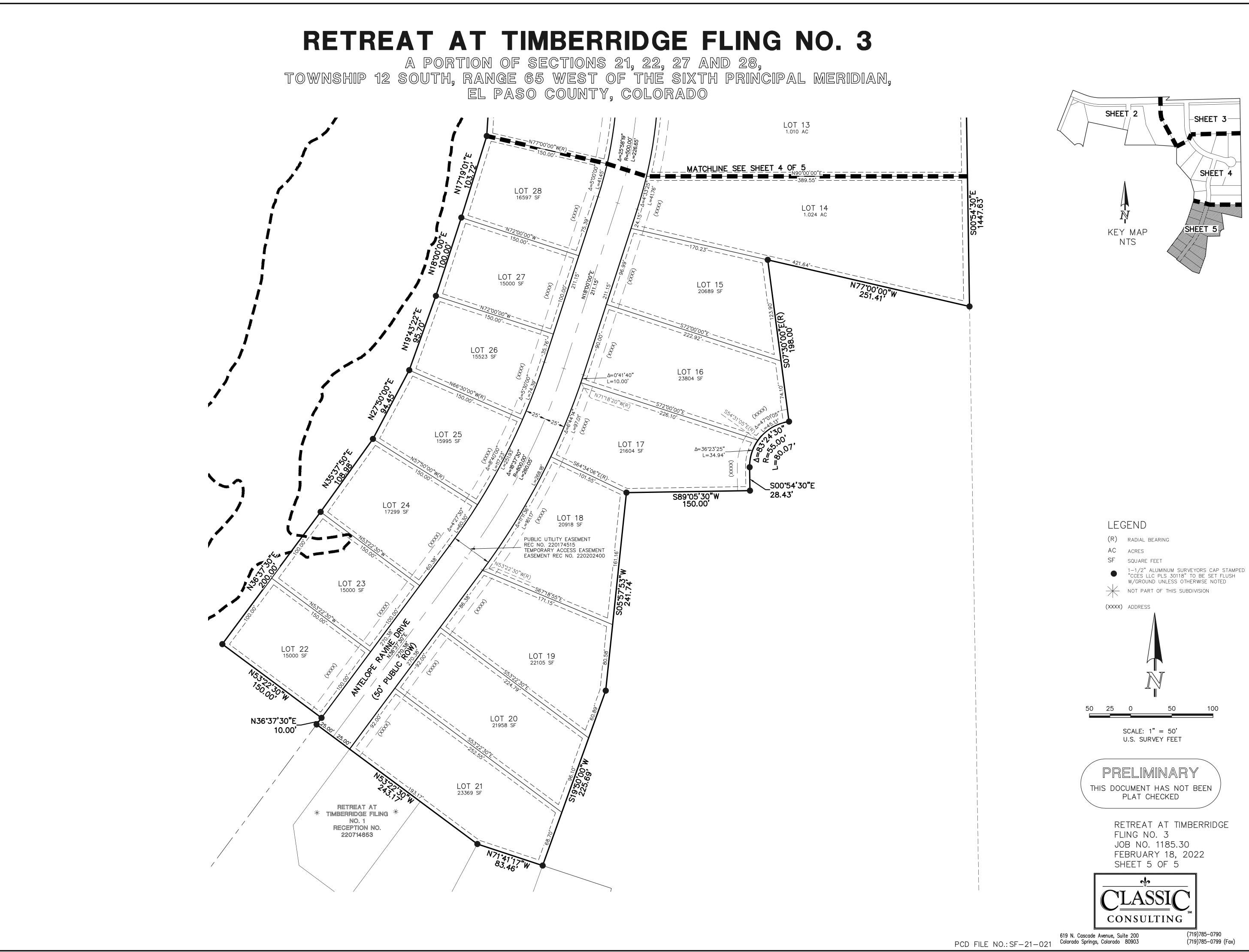
1–1/2" ALUMINUM SURVEYORS CAP STAMPED "CCES LLC PLS 30118" TO BE SET FLUSH W/GROUND UNLESS OTHERWISE NOTED

NOT PART OF THIS SUBDIVISION

(XXXX) ADDRESS









## **APPENDIX C**

## WATER RIGHTS DECREES







**RESPEC.COM** 

#### Appendix C Listing of Decrees/Determinations/Deeds in Appendix

#### **Decrees/Determinations**

#### <u>Deeds</u>

08 CW 113 86 CW 18 86 CW 19 17 CW 3002	FAWWA Assignment FAWWA Assignment FAWWA Assignment
18 CW 3002 20 CW 3059 91 CW 35	FAWWA Assignment Classic SRJ Deed
93 CW 018	Deed for first traunche Bar-X Special Warranty Deed Bar-X Shamrock West
85 CW 445	Special Warranty Deed Bar-X Shamrock West
85 CW 131 1689 BD 1690 BD 1691 BD	Special Warranty Deed Bar-X Shamrock West Special Warranty Deed McCune Special Warranty Deed McCune Special Warranty Deed McCune

	EFILED Document – District Court 2008CW113 CO Pueblo County District Court 10th JD
DISTRICT COURT, WATER DIVISION 2 Court Address: 320 W. 10 <sup>TH</sup> St., #203 Pueblo, CO 81003 Phone Number: (719) 583-7048	Filing Date: Mar 11 2011 3.13PM M9T Filing ID: 36431301 Review Clerk: Mardell Didomenico
CONCERNING THE APPLICATION OF MORLEY-BENTLEY INVESTMENTS, LLC FOR ADJUDICATION OF DENVER BASIN GROUNDWATER	
IN EL PASO COUNTY.	
Attorneys for Applicant:	$\Delta$ COURT USE ONLY $\Delta$
William H. Fronczak, #35043 Christopher Sutton #4369 Perkins Coie LLP 1899 Wynkoop Street, Suite 700. Denver, CO 80202 Phone Number: (303) 291-2300	Case No: 08CW113
Fax Number: (303) 291-2400 E-mail: <u>wfronczak@perkinscoie.com</u>	

#### FINDING OF FACT, CONCLUSIONS OF LAW, RULING OF THE REFEREE, JUDGMENT AND DECREE

#### FINDINGS OF FACT

1. Morley-Bentley Investments, LLC ("Applicant") filed an Application in this matter on December 31, 2008 (Applicant's mailing address is 20 Boulder Crescent, 2nd Floor, Colorado Springs, CO 80903).

2. Timely and adequate notice of this Application was duly published by the Water Clerk as required by statute on January 15, 2009, and publication costs have been paid. The Court has jurisdiction over the matters raised in the Application and all parties affected thereby, whether they have appeared or not. The lands and water rights involved in this Application are located within the boundaries of the Denver Basin.

3. The deadline for filing a Statement of Opposition was the last day of February 2009. A timely Statement of Opposition was filed by the City of Colorado Springs. Colorado Springs consents to entry of this Ruling. No other Opposer appears in this case.

4. On September 13, 2010, Applicant filed an Unopposed Motion to Amend Application. This motion amended the Application to remove the augmentation plan from the Application (Section III Application for Approval of a Plan for Augmentation).

5. By Order pursuant to C.R.C.P. 15 and Uniform Water Court Rule 4, entered on September 21, 2010, the Court granted Applicant's Unopposed Motion to Amend Application without the need of publication.

6. Applicant seeks to adjudicate and quantify the ground water contained within the Dawson and Denver aquifers underlying Applicant's Property. Applicant is the fee owner of approximately 1,451.44 acres in Sections 27, 28, 32, 33, and 34, Township 12 South, Range 65 West, and Section 4, Township 13 South, Range 65 West, El Paso County, Colorado, as more specifically described in attached Exhibit A ("Applicant's Property"). A map showing the Applicant's Property location is attached hereto.

7. Applicant also seeks to adjudicate and quantify the ground water contained within the Arapahoe and Laramie-Fox Hills aquifers underlying approximately 41.44 acres in the NW1/4 of Section 4, Township 13 South, Range 65 West and in the SE1/4 SW1/4 SE1/4 Section 32, Township 12 South, Range 65 West, of the 6<sup>th</sup> P.M. This 41.44 acres is a part of the Applicant's Property and is referred to herein as the Additional Property. The Additional Property location is identified on the attached map. The ground water contained within the Arapahoe and Laramie-Fox Hills underlying an approximately 1,410-acre portion of the Applicant's Property ("Previously Adjudicated Property") was previously adjudicated and quantified in Case Nos. 86CW18 and 86CW19 in the Water Court for Division 2, respectively.

8. On March 4, 2009, the Office of the State Engineer filed a Determination of Facts herein for the Dawson and Denver aquifers underlying Applicant's Property and the Arapahoe and Laramie-Fox Hills aquifers underlying the Additional Property. The Court has considered these filings in entering this Ruling and hereby adopts the Determination of Facts by reference herein. Copies of the Determination of Facts are also attached.

9. Applicant has not determined the specific locations for any new wells to be constructed into the Dawson and Denver aquifers on the Applicants Property, but agrees that each well constructed will be within Applicant's Property and designed so that it withdraws water from a single aquifer and is located at least 600 feet from any other well which withdraws from the same aquifer that is not under common ownership. Applicant claims the following pumping rates from the Dawson and Denver aquifers underlying Applicant's Property:

- Dawson 150 gallons per minute.
- Denver 150 gallons per minute.

10. Applicant has also not determined the specific locations for any new wells to be constructed into the Arapahoe and Laramie-Fox Hills aquifers on the Additional Property, but agrees that each well constructed will be within the Additional Property and designed so that it withdraws water from a single aquifer and is located at least 600 feet from any other well which withdraws from the same aquifer that is not under common ownership. Applicant claims the following pumping rates from the Arapahoe and Laramie-Fox Hills aquifers underlying Applicant's Property:

- Arapahoe 150 gallons per minute.
- Laramie-Fox Hills 150 gallons per minute

11. Based upon the attached map, the Determination of Facts quantified the Dawson and Denver ground water available underlying the Applicant's Property and the Arapahoe and Laramie-Fox Hills ground water underlying the Additional Property. Based upon a 100-year aquifer life, the following amounts of ground water are available to Applicant:

Aquifer	Sand Thickness (ft)	Annual Appropriation (af)	Status		
Dawson	145.8	392.5 <sup>1</sup>	N-NT (actual)		
Denver	313.8	728.9 <sup>2</sup>	N-NT (4%)		
Arapahoe	251.4	0.60 <sup>3</sup>	N-NT (4%)		
Laramie-Fox Hills	190	0.40 <sup>3</sup>	NT		

<sup>1</sup> Represents a reduction in the annual appropriation to prevent material injury to the vested water rights of 8745-R, 8746-R, 8747-R and 8748-R.

<sup>2.</sup> Represents a reduction in the annual appropriation to prevent material injury to the vested water rights 19961-F and 26947-F.

<sup>3</sup> Represents a reduction in the annual appropriation to prevent material injury to the vested water right decreed in Case No. 02CW66.

NT - Non-Tributary

N-NT(4 %) – Not Non-Tributary 4 percent replacement of the amount of groundwater withdrawn.

N-NT(actual) – Not Non-Tributary actual replacement of stream depletions.

12. The Application states, and the Determination of Facts finds, that the Laramie-Fox Hills aquifer underlying the Additional Property is non-tributary as defined in C.R.S §37-90-103(10.5). The Court adopts this finding. Accordingly, two percent of all withdrawals from this aquifer are required to be relinquished to the stream system. 13. The Application states, and Determination of Facts finds, that the Arapahoe aquifer underlying the Additional Property and the Denver underlying the Applicant's Property are not non-tributary as defined in C.R.S §37-90-103(10.5). The Determination of Facts also conclude that the Additional Property with respect to the Arapahoe aquifer and the Applicant's Property with respect to the Denver aquifer are located greater than one mile from any point of contact between any natural surface stream, including its alluvium, and these aquifers. The Court adopts this finding. Accordingly, water from the Arapahoe aquifer underlying the Additional Property and the Denver underlying the Applicant's Property cannot be used until a plan for augmentation is approved by the Court to replace depletions caused by pumping this ground water pursuant to C.R.S. §§37-90-137(9)(c) and 37-92-302(1). Such an augmentation plan shall provide for the replacement of affected stream systems or system of a total amount of water equal to four percent (4%) of the amount of water withdrawn on an annual basis from each aquifer.

14. The Application states, and the Determination of Facts finds, that the ground water in the Dawson aquifer underlying the Applicant's Property is not non-tributary as defined in C.R.S. \$37-90-103(10.5). The Court adopts this finding. Accordingly, water from this aquifer cannot be used until a plan for augmentation is approved by the Court to replace depletions caused by pumping this ground water pursuant to \$\$37-90-137(9)(c) and 37-92-302(1). Such an augmentation plan shall provide for the replacement of actual stream depletions to the extent necessary to prevent any injurious effect.

15. Applicant seeks to adjudicate the above ground water for domestic, agricultural, industrial, municipal, commercial, irrigation, recreational, aesthetic, piscatorial, fire protection, augmentation, exchange and storage, and successive reuse to extinction so long as such reuse is augmented when necessary. Applicant also seeks to use such water by immediate application or by storage and subsequent application to the beneficial uses and purposes stated herein.

16. Applicant requests the Court determine that Applicant may withdraw full legal entitlement from the Dawson and Denver aquifers underlying Applicant's Property through any combination of wells. Applicant requests that these wells to each respective aquifer be treated as a well field. Applicant also requests that it be entitled to withdraw an amount of ground water in excess of the average annual amount decreed to these aquifers beneath the Applicant's Property, so long as the sum of the total withdrawals from all the wells in the respective aquifer does not exceed the product of the number of years since the date of issuance of the original well permit or the date of entry of a decree, whichever comes first, multiplied by the average annual volume of water which the Applicant is entitled to withdraw from that aquifer underlying the Applicant's Property.

17. As to the not non-tributary Arapahoe and non-tributary Laramie-Fox Hills aquifers underlying the Additional Property, Applicant requests that it be entitled to withdraw those quantities of ground water quantified herein, along with that ground water previously quantified in 86CW18 and 86CW19, respectively, from common structures, in consideration of the contiguity of the overlying land between such adjudications (i.e. Applicant's Property).

Applicant also requests that it be entitled to withdraw an amount of ground water in excess of the average annual amount decreed to the respective aquifer beneath the Additional Property, so long as the sum of the total withdrawals from all the wells in the aquifers do not exceed the product of the number of years since the date of issuance of the first well permit, multiplied by the average annual volume of water which the Applicant is entitled to withdraw from the aquifers underlying the Additional Property.

18. Applicant also requests that the Court retain jurisdiction over this matter to make adjustments in the allowed annual average amount of withdrawal, either upwards or downwards, to conform to actual local aquifer characteristics. The Court will retain jurisdiction in this matter pursuant to paragraph 29 of this Ruling to make any necessary adjustments, and such adjustments shall be made by the Court without Applicant having to refile, republish, or otherwise amend this Application.

#### **CONCLUSIONS OF LAW**

19. The Court has jurisdiction in this matter pursuant to C.R.S. \$ 37-90-137(6), 37-92-203(1), and 37-32-302 through 305.

20. The Court concluded that the Application in this matter is one contemplated by law. The Application for a decree confirming Applicant's right to divert and use not non-tributary ground water from the Dawson and Denver underlying the Applicants Property and the not non-tributary Arapahoe and non-tributary Laramie Fox Hills aquifers underlying the Additional Property, pursuant to C.R.S. §§ 37-90-137(4) and 37-90-137(9)(c), should be granted subject to the provision of this decree. The rights confirmed by the by this decree are vested property rights.

21. Timely and adequate notice of the filing and contents of the Application herein was given in the manner required by law, and no additional notice is required. C.R.S. § 37-92-302(3).

22. The Court concludes that the rights to ground water determined herein are not conditional water rights and subsequent showing or finding of reasonable diligence under C.R.S. § 37-32-301(4) are inapplicable and need not be made. Accordingly, each of the water rights adjudicated herein is a final water right.

23. The Court concludes that the rights to ground water determined in this decree do not in any way affect, modify or otherwise change this Court's adjudication, status or quantification of the Arapahoe and Laramie-Fox Hills ground water previously adjudicated in Case Nos. 86CW18 and 86CW19, respectively.

24. The water rights described above are capable of administration by the state water officials.

#### **RULING**

25. The provisions of paragraphs 1-24 above are incorporated herein and made a part of the Court's Ruling.

26. Applicant's request for adjudication of the Dawson and Denver ground water underlying the Applicant's Property and the Arapahoe and Laramie-Fox Hills ground water underlying the Additional Property as described in paragraphs 5 through 11 above are hereby granted subject to the terms and conditions set forth herein.

27. Applicant must apply for well permits for all new wells to be constructed within the Laramie-Fox Hills on the Additional Property. The State Engineer shall evaluate those applications pursuant to C.R.S. § 37-90-137(2) consistent with the terms and conditions of the final decree entered herein. Permits shall not be unreasonably withheld. Applicant shall meter and record all well use for reporting purposes.

28. Withdrawal of ground water from the not non-tributary Dawson and Denver underlying the Applicant's Property and the not non-tributary Arapahoe aquifer underlying the Additional Property shall be prohibited without a Court approved augmentation plan and well permits issued by the State Engineer.

29. The Court shall retain jurisdiction over this matter for the purpose of reconsidering the question of injury to the vested water rights of others pursuant to this paragraph. The decree herein grants water rights from the Dawson and Denver underlying the Applicant's Property and the Arapahoe and Laramie-Fox Hills aquifers underlying the Additional Property. The Court retains jurisdiction to provide for adjustment of the average annual amount of withdrawal to conform to actual local aquifer characteristics as determined from analyses of data obtained when the wells are constructed or analysis of other acceptable geophysical information as provided in Statewide Nontributary Rules 2 C.C.R. 402-7. Within 60 days after completion of such well(s) or test hole(s), Applicant shall file with the State Engineer copies of the well logs from such well(s) or test hole(s). Any person, including the State Engineer, may invoke the Court's retained jurisdiction to make a Final Determination of Water Right. The State Engineer, upon notice of the invocation of such retained jurisdiction, shall use the data available to him and make a Final Determination of Water Rights Findings within four (4) months thereafter and submit the same event of a protest or in the event the State Engineer makes no determination within four (4) months after the Court's retained jurisdiction is invoked, such final determination shall be made by the Court after notice and a hearing.

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30. This Ruling shall be mailed as required by statute.

Dated: March 11, 2011.

BY THE WATER REFEREE:

Mardell R. DiDomenico Water Referee

#### JUDGMENT AND DECREE

The foregoing Ruling comes before the Court after the time period for raising objections to the same pursuant to C.R.S. §37-92-304(2) has expired. The Court, having reviewed the Ruling and being familiar with the terms of the same, hereby approves and enters said Ruling as a Judgment and Decree of this Court pursuant to C.R.S. §37-92-304(5).

DONE this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

BY THE COURT:

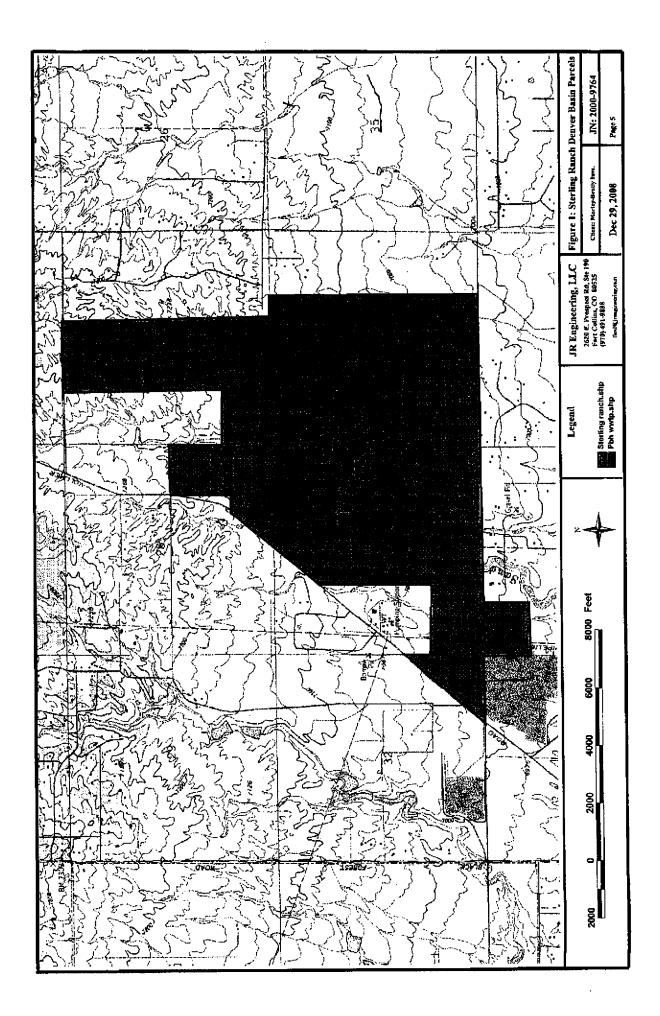
Dennis Maes, Water Judge Water Division 2

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#### EXHIBIT A – Applicant Property

#### The Subject Lands consist of the following:

The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the E1/2 SE1/4 and that portion of the SW1/4 SE1/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, that portion of the NE1/4 SE1/4 of said Section 32, lying South and East of said County Road, and that portion of the SE1/4 SW1/4 SE1/4 of Section 32 beginning at the SE corner of the SE1/4 SW1/4 SE1/4, then northerly along the east line of the SE1/4 SW1/4 SE1/4 a distance of 495 feet to a point on Volimer Road, then southwesterly along Volimer Road 660 feet to a point on the south line, then easterly 495 feet to the point of beginning; the E1/2 and the E1/2 SW1/4 and the SW1/4 SW1/4 of Section 33, and all that part of the NW1/4 of said Section 33. lying South and East of the said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the El Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado. The NW1/4 of the NW1/4 of Section 4, Township 13 South, Range 65 West of the 6th P.M., located in El Paso County. Colorado.



#### OFFICE OF THE STATE ENGINEER

DETERMINATION OF FACTSEFILED Document – District Court 2008CW113 CO Pueblo County District Court 10th JD

IN THE MATTER OF AN APPLICATION FOR UNDERGROUND THE Date: Mar 6,2009 1:12PM MST DIVISION NO. 2, EL PASO COUNTY, COLORADO Review Clerk: Mardell Didomenico

CASE NO.: 08CW113

APPLICANT: MORLEY-BENTLEY INVESTMENTS, LLC

AQUIFER : DAWSON

In compliance with C.R.S. 37-92-302(2), Morley-Bentley Investments, LLC, (hereinafter "applicant") submitted an application to the Water Court for a determination of the amount of water available pursuant to C.R.S. 37-90-137(4). Based on information provided to the Court by the applicant and records of the Division of Water Resources, the State Engineer finds as follows:

- 1. The application was received by the Water Court on December 31, 2008.
- 2. According to the application, the applicant owns, or has consent to withdraw ground water underlying 1451.44 acres of land as further described in said application.
- 3. The quantity of water in the Dawson Aquifer (hereinafter "aquifer"), exclusive of artificial recharge, underlying the 1451.44 acres of land claimed in the application is 42,309 acre-feet. This determination was based on the following as specified in the Denver Basin Rules:
  - a. The average specific yield of the saturated aquifer materials underlying the land claimed in the application is 20 percent.
  - b. The average thickness of the saturated aquifer materials underlying the land claimed in the application is 145.8 feet.
- 4. In determining the amount of ground water available for withdrawal annually from this aquifer, the provisions of C.R.S. 37-90-137(4) must be applied, and pursuant to C.R.S. 37-90-137(4)(b)(I) annual withdrawals shall be allowed on the basis of an aquifer life of 100 years.
- 5. A review of the records in the State Engineer's Office has disclosed that there are existing wells or other water rights withdrawing ground water from the aquifer underlying the land claimed by the applicant. The well permit numbers, locations, rates of diversion, and other relevant data concerning such rights are set forth in the attached Exhibit A. To prevent material injury to such vested water rights, the quantity of water underlying the land claimed in the application which is considered available for withdrawal has been reduced to 39,247 acre-feet. This reduction was based on a calculation of the area necessary to provide a quantity of water underlying such lands as would be sufficient for the persons entitled to divert water under existing rights to divert the average annual amount of water from the aquifer for the minimum aquifer life of 100 years. The effect of this calculation is

Case No.: 08CW113 Applicant: Morley-Bentley Investments, LLC Aquifer: Dawson

to reduce the land available for calculating the quantity of water underlying the land claimed in the application to 1,345,92 acres.

- 6. Withdrawal of ground water from the aquifer underlying the land claimed in the application will within one hundred years, deplete the flow of a natural stream at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and therefore the ground water is <u>not</u> nontributary ground water as defined in C.R.S. 37-90-103(10.7). C.R.S. 37-90-137(9)(c) states that judicial approval of a plan for augmentation shall be required prior to use of ground water of the type sought in this application. In the case of the Dawson aquifer such augmentation plans shall provide for the replacement of actual stream depletions to the extent necessary to prevent any injurious effect, based on actual aquifer conditions in existence at the time of the decree.
- 7. The allowed average annual amount of water available for withdrawal from the aquifer underlying the lands claimed in the application is 392.5 acre-feet (the quantity of water which is considered available divided by the 100 year aquifer life). It is recommended that the water court retain jurisdiction necessary to provide for adjustment (increase or decrease) of this amount.
- 8. Underlying the land claimed in the application, the aquifer is, as specified in the Denver Basin Rules, located approximately 54 feet to 346 feet below land surface. A site specific evaluation must be conducted with each well permit to identify the interval due to the varied elevation of the aquifer and surface topography.

Dated this \_\_\_\_\_ day of \_\_\_\_\_

. 2009.

Dick Wolfe, P.E. Director/State Engineer

By: Sarah Reinsei

Water Resources Engineer

Prepared by: SKR

Case No.: 08CW113 Applicant: Morley-Bentley Investments, LLC Aquifer: Dawson

#### EXHIBIT A

Well		Location								
Number	<u>Q40</u>	<u>Q160</u>	<u>Sec.</u>	<u>Twp.</u>	<u>Rng.</u>	<u>AF</u>	<u>ST</u>	<u>SY</u>	<u>Radius</u>	<u>Area</u>
8745-R	NE	SW	33	12S	65W	24.2	109	20	1240	87
8746-R	NE	SW	33	12S	65W	16.1	112	20	1001	71
8747-R	NE	SW	33	128	65W	12.9	114	20	886	57
8748-R	NE	SW	33	12S	65W	16.1	109	20	1011	74

Well Number = Well permit number and/or water court case number

- AF = Annual appropriation of the well (acre-feet)
- ST = Thickness of the saturated aquifer material at the well location (feet)
- SY = Specific Yield of the saturated aquifer material (%)

Radius = Radius of the cylinder of appropriation (feet)

Area = Area of the applicant's land that is overlapped by the cylinder of appropriation (acres)

#### OFFICE OF THE STATE ENGINEER

DETERMINATION OF FACTS EFILED Document – District Court 2008CW113

#### CO Pueblo County District Court 10th JD

IN THE MATTER OF AN APPLICATION FOR UNDERGROUND FILE AND THE ADDITION FOR UNDERGROUND FILE ADDITION TO A ADDITION AND A ADDITIONAL ADDITIONALADDITICAL ADDITIONAL ADDITICAL ADDITIONAL ADDITIONAL

CASE NO.: 08CW113

APPLICANT: MORLEY-BENTLEY INVESTMENTS, LLC

AQUIFER : DENVER

In compliance with C.R.S. 37-92-302(2), Morley-Bentley Investments, LLC, (hereinafter "applicant") submitted an application to the Water Court for a determination of the amount of water available pursuant to C.R.S. 37-90-137(4). Based on information provided to the Court by the applicant and records of the Division of Water Resources, the State Engineer finds as follows:

- 1. The application was received by the Water Court on December 31, 2008.
- 2. According to the application, the applicant owns, or has consent to withdraw ground water underlying 1,451.44 acres of land as further described in said application.
- 3. The quantity of water in the Denver Aquifer (hereinafter "aquifer"), exclusive of artificial recharge, underlying the 1,451.44 acres of land claimed in the application is 77,416 acre-feet. This determination was based on the following as specified in the Denver Basin Rules:
  - a. The average specific yield of the saturated aquifer materials underlying the land claimed in the application is 17 percent.
  - b. The average thickness of the saturated aquifer materials underlying the land claimed in the application is 313.8 feet.
- 4. In determining the amount of ground water available for withdrawal annually from this aquifer, the provisions of C.R.S. 37-90-137(4) must be applied, and pursuant to C.R.S. 37-90-137(4)(b)(I) annual withdrawals shall be allowed on the basis of an aquifer life of 100 years.
- 5. A review of the records in the State Engineer's Office has disclosed that there are existing wells or other water rights withdrawing ground water from the aquifer underlying the land claimed by the applicant. The well permit numbers, locations, rates of diversion, and other relevant data concerning such rights are set forth in the attached Exhibit A. To prevent material injury to these vested water rights, the land available for calculating the quantity of water underlying the land claimed in the application is reduced to 1,410.00 acres. The effect of this calculation is to reduce the quantity of water underlying the land claimed in the application which is considered available for withdrawal to 72,893 acre-feet.

Case No.: 08CW113 Applicant: Morley-Bentley Investments, LLC Aquifer: Denver

- 6. Withdrawal of ground water from the aquifer underlying the land claimed in the application will, within one hundred years, deplete the flow of a natural stream at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and therefore the ground water is <u>not</u> nontributary ground water as defined in C.R.S. 37-90-103(10.5). The land is more than one mile from any point of contact between any natural surface stream, including its alluvium, and the aquifer. C.R.S. 37-90-137(9)(c) states that judicial approval of a plan for augmentation shall be required prior to the use of ground water of the type sought in this application. In the case of the subject application, such augmentation plan shall provide for the replacement to affected stream systems or system of a total amount of water equal to four percent (4%) of the amount of water withdrawn on an annual basis and such additional amounts that may be required pursuant to Section 37-90-137(9)(c), C.R.S. (1986 Supp).
- 7. The allowed average annual amount of water available for withdrawal from the aquifer underlying the lands claimed in the application is 728.9 acre-feet (the quantity of water which is considered available divided by the 100 year aquifer life). It is recommended that the water court retain jurisdiction necessary to provide for adjustment (increase or decrease) of this amount.
- 8. Underlying the land claimed in the application, the aquifer is, as specified in the Denver Basin Rules, located approximately 380 feet to 1,270 feet below land surface. A site specific evaluation must be conducted with each well permit to identify the interval due to the varied elevation of the aquifer and surface topography.

Dated this 4th day of March , 2009.

Dick Wolfe, P.E. Director/State Engineer

By: Saral Reinsel

Water Resources Engineer

Prepared by: SKR

Case No.: 08CW113 Applicant: Morley-Bentley Investments, LLC Aquifer: Denver

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#### EXHIBIT A

Well	Location						
<u>Number</u>	<u>Q40</u>			<u>Twp.</u>		<u> AF</u>	<u>Area</u>
19961-F	NE	NE	5	13S	65W	58	1.44
26947-F	SW	SW	32	12S	65W	20.3	40

Well Number = Well permit number and/or water court case number

AF = Annual appropriation of the well (acre-feet)

Area = Area of the applicant's land that is overlapped by the previous allocation (acres)

# OFFICE OF THE STATE ENGINEER

DETERMINATION OF FACTS EFILED Document – District Court 2008CW113

CO Pueblo County District Court 10th JD

# IN THE MATTER OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AT THE REPORT OF AN APPLICATION FOR UNDERGROUND HIM AN APPLICATION FOR UNDERGR

CASE NO.: 08CW113

APPLICANT: MORLEY-BENTLEY INVESTMENTS, LLC

AQUIFER : ARAPAHOE

In compliance with C.R.S. 37-92-302(2), Morley-Bentley Investments, LLC, (hereinafter "applicant") submitted an application to the Water Court for a determination of the amount of water available pursuant to C.R.S. 37-90-137(4). Based on information provided to the Court by the applicant and records of the Division of Water Resources, the State Engineer finds as follows:

- 1. The application was received by the Water Court on December 31, 2008.
- 2. According to the application, the applicant owns, or has consent to withdraw ground water underlying 41.44 acres of land as further described in said application.
- 3. The quantity of water in the Arapahoe Aquifer (hereinafter "aquifer"), exclusive of artificial recharge, underlying the 41.44 acres of land claimed in the application is 1,771 acre-feet. This determination was based on the following as specified in the Denver Basin Rules:
  - a. The average specific yield of the saturated aquifer materials underlying the land claimed in the application is 17 percent.
  - b. The average thickness of the saturated aquifer materials underlying the land claimed in the application is 251.4 feet.
- 4. In determining the amount of ground water available for withdrawal annually from this aquifer, the provisions of C.R.S. 37-90-137(4) must be applied, and pursuant to C.R.S. 37-90-137(4)(b)(I) annual withdrawals shall be allowed on the basis of an aquifer life of 100 years.
- 5. A review of the records in the State Engineer's Office has disclosed that there is an existing decreed water right to withdraw ground water from the aquifer underlying a portion of the land claimed by the applicant. Case no. 02CW66 was approved by the Division 2 Water Court on December 3, 2002 to allow for the withdrawal of ground water from the aquifer underlying 132 acres, 40 acres of which overlaps the applicant's claimed overlying land area. To prevent material injury to this vested water right, the land available for calculating the quantity of water underlying the land claimed in the application is reduced to 1.44 acres. The effect of this calculation is to reduce the quantity of water underlying the land claimed in the application which is considered available for withdrawal to 61.5 acre-feet.

Case No.: 08CW113 Applicant: Morley-Bentley Investments, LLC Aquifer: Arapahoe

- 6. Withdrawal of ground water from the aquifer underlying the 1.44 acres of available land claimed in the application will, within one hundred years, deplete the flow of a natural stream at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and therefore the ground water is <u>not</u> nontributary ground water as defined in C.R.S. 37-90-103(10.5). The land is more than one mile from any point of contact between any natural surface stream, including its alluvium, and the aquifer. C.R.S. 37-90-137(9)(c) states that judicial approval of a plan for augmentation shall be required prior to the use of ground water of the type sought in this application. In the case of the subject application, such augmentation plan shall provide for the replacement to affected stream systems or system of a total amount of water equal to four percent (4%) of the amount of water withdrawn on an annual basis and such additional amounts that may be required pursuant to Section 37-90-137(9)(c), C.R.S. (1986 Supp).
- 7. The allowed average annual amount of water available for withdrawal from the aquifer underlying the lands claimed in the application is 0.6 acre-feet (the quantity of water which is considered available divided by the 100 year aquifer life). It is recommended that the water court retain jurisdiction necessary to provide for adjustment (increase or decrease) of this amount.
- 8. Underlying the land claimed in the application, the aquifer is, as specified in the Denver Basin Rules, located approximately1,122 feet to 1,628 feet below land surface. A site specific evaluation must be conducted with each well permit to identify the interval due to the varied elevation of the aquifer and surface topography.

Dated this 4th day of March , 2009.

Dick Wolfe, P.E. Director/State Engineer

By:

Sara#Reinsel Water Resources Engineer

Prepared by: SKR

#### OFFICE OF THE STATE ENGINEER DETERMINATION OF FACTS EFILED Document -- District Court

FAUTS EFILED Document - District 2008CW113

CO Pueblo County District Court 10th JD

IN THE MATTER OF AN APPLICATION FOR UNDERGROUND WATER Date: Mar. 6 2000 1.17PL MST DIVISION NO. 2, EL PASO COUNTY, COLORADO Review Clerk: Mardell Didomenico

CASE NO.: 08CW113

APPLICANT: MORLEY-BENTLEY INVESTMENTS, LLC

AQUIFER : LARAMIE-FOX HILLS

In compliance with C.R.S. 37-92-302(2), Morley-Bentley Investments, LLC, (hereinafter "applicant") submitted an application to the Water Court for a determination of the amount of water available pursuant to C.R.S. 37-90-137(4). Based on information provided to the Court by the applicant and records of the Division of Water Resources, the State Engineer finds as follows:

- 1. The application was received by the Water Court on December 31, 2008.
- 2. According to the application, the applicant owns, or has consent to withdraw ground water underlying 41.44 acres of land as further described in said application.
- 3. The quantity of water in the Laramie-Fox Hills Aquifer (hereinafter "aquifer"), exclusive of artificial recharge, underlying the 41.44 acres of land claimed in the application is 1,181 acre-feet. This determination was based on the following as specified in the Denver Basin Rules:
  - a. The average specific yield of the saturated aquifer materials underlying the land claimed in the application is 15 percent.
  - b. The average thickness of the saturated aquifer materials underlying the land claimed in the application is 190.0 feet.
- 4. In determining the amount of ground water available for withdrawal annually from this aquifer, the provisions of C.R.S. 37-90-137(4) must be applied, and pursuant to C.R.S. 37-90-137(4)(b)(I) annual withdrawals shall be allowed on the basis of an aquifer life of 100 years.
- 5. A review of the records in the State Engineer's Office has disclosed that there is an existing decreed water right to withdraw ground water from the aquifer underlying a portion of the land claimed by the applicant. Case no. 02CW66 was approved by the Division 2 Water Court on December 3, 2002 to allow for the withdrawal of ground water from the aquifer underlying 132 acres, 40 acres of which overlaps the applicant's claimed overlying land area. To prevent material injury to this vested water right, the land available for calculating the quantity of water underlying the land claimed in the application is reduced to 1.44 acres. The effect of this calculation is to reduce the quantity of water underlying the land claimed in the application which is considered available for withdrawal to 41.0 acre-feet.

Case No.: 08CW113 Applicant: Morley-Bentley Investments, LLC Aquifer: Laramie-Fox Hills

- 6. Withdrawal of ground water from the aquifer underlying the land claimed in the application will not, within one hundred years, deplete the flow of a natural stream at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and therefore the ground water is nontributary ground water as defined in C.R.S. 37-90-103(10.5). Pursuant to C.R.S. 37-90-137(9)(b) and the Denver Basin Rules, no more than 98% of the nontributary ground water withdrawn annually shall be consumed and the applicant shall demonstrate to the reasonable satisfaction of the State Engineer that no more than 98% of the water withdrawn will be consumed prior to the issuance of a well permit.
- 7. The allowed average annual amount of water available for withdrawal from the aquifer underlying the lands claimed in the application is 0.4 acre-feet (the quantity of water which is considered available divided by the 100 year aquifer life). It is recommended that the water court retain jurisdiction necessary to provide for adjustment (increase or decrease) of this amount.
- 8. Underlying the land claimed in the application, the aquifer is, as specified in the Denver Basin Rules, located approximately 1,921 feet to 2,204 feet below land surface. A site specific evaluation must be conducted with each well permit to identify the interval due to the varied elevation of the aquifer and surface topography.

Dated this \_\_\_\_\_ day of \_\_\_\_\_\_, 2009.

Dick Wolfe, P.E. Director/State Engineer

and Sent By:

Sarah Reinsel Water Resources Engineer

Prepared by: SKR

Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

DISTRICT COURT, WATER DIVISION NO. 2, STATE OF COLORADO 0CT 29 1986

Case No. 86-CW-18

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Riscieles Syners

Clerk

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

CONCERNING THE APPLICATION FOR NONTRIBUTARY GROUND WATER RIGHTS OF THE FIRST INTERSTATE BANK OF DENVER N.A., CARLA W. LEWIS, AND SAMUEL S. SHERMAN AS COTRUSTEES UNDER THE LIFE INSURANCE TRUST OF THOMAS M. DINES FROM THE ARAPAHOE FORMATION, EL PASO COUNTY.

THIS MATTER, having come on for hearing before the Court this 29 day of 200, 1986 upon the application of The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines ("Applicants") and the Court having considered the pleadings filed and the evidence presented, and being fully advised in the premises, hereby enters the following Findings of Fact, Conclusions of Law, and Judgment and Decree:

#### FINDINGS OF FACT

1. The Applicants are The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines whose address is First Interstate Bank of Denver, 633 Seventeenth Street, Denver, Colorado 80202, Attn: Jack Alexander. Applicants filed the application in this case styled Application For Nontributary Ground Water From The Arapahoe Formation (the "Application") on March 28, 1986, seeking an adjudication of nontributary ground water rights from the Arapahoe Formation underlying lands owned by Applicants in El Paso County.

2. Timely and adequate notice of the Application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of the lands or water rights involved in this case are within the boundaries of a designated groundwater basin.

3. A timely statement of opposition was filed by JVRC, Inc. No other statements of opposition were filed within the time provided by law nor did any other parties enter their appearance or intervene in these proceedings. 4. The Water Referee by Order dated July 19, 1986, under Section 37-92-303(2), C.R.S., rereferred the Application to the Water Judge for all further proceedings.

5. The State Engineer issued a Determination of Facts on the Application, dated July 28, 1986, which has been filed with the Court. The Division Engineer adopted the Determination of Facts as his recommendations on August 8, 1986. The Determination of Facts and the findings contained therein have been reviewed and considered by this Court in accordance with Section 37-92-305(6), C.R.S.

Applicants seek an adjudication of rights 6. to nontributary ground water from the Arapahoe Formation beneath 1,410 acres of land in El Paso County which are described in Exhibit A and depicted on the map attached as Exhibit B, both of which are incorporated herein by this reference (the "Subject Lands"). Applicants are the owners of the Subject Lands and have the right to withdraw and use the waters from the Arapahoe Formation underlying those lands. The waters claimed herein may be withdrawn through the proposed wells described in Paragraph  $\overline{7}$ below and through such additional, replacement and supplemental wells as may be necessary to withdraw all of the water in the Arapahoe Formation underlying the Subject Lands without causing material injury to any vested water right whose source of supply is the Arkansas River and any of its tributaries or any other natural stream, or any ground water tributary thereto, and the Applicants have so proven.

7. Applicants will divert the waters claimed herein from the Arapahoe Formation through Dines Wells KA-1, KA-2, KA-3, and KA-4 more particularly described as follows:

Well Name: Dines Well KA-1

- (a) In the SE 1/4 of the NW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 2500 feet from the North Section line and 2200 feet from the West Section line, in El Paso County.
- (b) Depth: 1900 feet.
- (c) Source: Nontributary Arapahoe Formation.
- (d) Pumping rate: 150 gpm.

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(e) Annual quantity: 240 acre-feet.\*

#### Well Name: Dines Well KA-2

- (a) Location: In the SW 1/4 of the SW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 200 feet from the South Section line and 200 feet from the West Section line, in El Paso County.
- (b) Depth: 1800 feet.
- (c) Source: Nontributary Arapahoe Formation.
- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KA-3

- (a) Location: In the NW 1/4 of the SE 1/4 of Section 33, Township 12 South, Range 65 West of the 6th P.M., 1500 feet from the South Section line and 2100 feet from the East Section line, in El Paso County.
- (b) Depth: 1700 feet.
- (c) Source: Nontributary Arapahoe Formation.
- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KA-4

- (a) Location: In the NE 1/4 of the SW 1/4 of Section 34, Township 12 South, Range 65 West of the 6th P.M., 1400 feet from the South Section line and 2100 feet from the West Section line, in El Paso County.
- (b) Depth: 1700 feet.
- (c) Source: Nontributary Arapahoe Formation.

- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.
- \* Not to exceed in total the amount available to Applicants from the Arapahoe Formation pursuant to § 37-90-137(4), C.R.S. and the provisions of this decree.

8. Pursuant to §37-90-137(4), C.R.S., five hundred seventy-five (575) acre-feet of water per year are available to Applicants from the Arapahoe Formation underlying the Subject Lands. The average thickness of saturated sand of the Arapahoe Formation underlying the Subject Lands is 240 feet but the final determination on actual saturated sand thickness will be determined when the wells are drilled, and the amount decreed herein may be subsequently adjusted in accordance with that saturated sand thickness as provided in Paragraph 29 below. The specific yield of the Arapahoe Formation is 17% in and beneath the Subject Lands. This finding is specific to the property involved and does not indicate or in any way reflect upon proper values for the subject aquifer elsewhere. All the water in the Arapahoe Formation underlying the Subject Lands remains available for withdrawal by the wells decreed herein.

The State Engineer in his Determination of Facts 9. found acre-feet per year were that 581 available for appropriation through the subject wells. The State Engineer's determination is based on a finding that only 1395 acres of the Subject Lands are available for appropriation, and based on saturated sand thicknesses of 245 feet and 250 feet for different parts of the Subject Lands and a specific yield of 17% for the Arapahoe Formation. The State Engineer also found that of the total 581 acre-feet per year of water available for appropriation, 569 acre-feet was nontributary and 12 acre-feet was not nontributary. The 12 acre-feet per year the State Engineer found as not nontributary underly 37 acres of Section 32 of the Subject Lands. Applicant has shown by a preponderance of the evidence that there are no existing wells with a right to water from the Arapahoe Formation underlying the Subject Lands and that the water underlying 1410 acres is available for The Court also finds that the appropriation by Applicants. withdrawals through Applicants' proposed wells of the water claimed herein including the amount of water underlying the 37 acres in Section 32 is nontributary. The proposed wells will not, at their location and withdrawing the amounts decreed herein, within one hundred years deplete the flow of any natural stream at a rate greater than one-tenth of one percent of the annual rate of withdrawal. Applicants' engineer has testified that 575 acre-feet per year is available for appropriation calculated with a saturated sand thickness of 240 feet for the

Arapahoe Formation. Subject to the final determination of saturated sand thickness based on the information derived from the drilling of the wells, Applicants will use 240 feet for the saturated sand thickness of the Arapahoe Formation beneath the Applicants' property.

10. The source of water for the proposed wells is nontributary as defined in Section 37-90-103 (10.5), C.R.S. The proposed withdrawals through Dines Wells KA-1, KA-2, KA-3, and KA-4 in the amount of 575 acre-feet per year, or in any lesser or greater amount determined under Paragraph 29, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal.

11. The waters of the Arapahoe Formation that are the subject of the appropriation claimed herein will be, and Applicants intend that they be used, and Applicants shall have the right of succession of uses, for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. The water will be produced for immediate application to beneficial use and for storage and subsequent application to beneficial use. Subject only to the provisions of Paragraph 31, Applicants shall have the right to make any reuse, successive use or disposition of the developed water claimed herein until totally consumed free of any limitations, restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S.

12. All of the requirements of C.R.S. § 37-90-137(4), in effect on this date have been complied with, and the issuance of permits for the subject wells is justified and those permits will be issued as described in Paragraph 34 below.

13. Applicants will relinquish the right to consume after use, reuse, and successive use 2% of the amount of ground water withdrawn through Dines Wells KA-1, KA-2, KA-3 and KA-4 and any additional, supplemental, or replacement, wells without regard to dominion or control of the ground water so relinquished.

14. Applicants seek a decree designating all of the wells described in Paragraph 7 above as original and alternate points of diversion for each other permitting the withdrawal of up to the full cumulative amount by flow rate and volume of water which may be lawfully withdrawn from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested

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water right or decreed conditional water right by the granting of this request, and it is hereby granted.

15. Applicants may withdraw more water than the amounts set forth in Paragraph 8 so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Arapahoe Formation.

16. Applicants have requested that the Court determine that Applicants have the right to withdraw all of the unappropriated water from the Arapahoe Formation lying below their land and to increase their annual appropriations based upon the local aquifer characteristics established through information obtained from the drilling of the wells upon notice to all parties and approval by the Court, without amending the Application or republishing. The Court finds that there has been full and adequate notice of these claims and Applicants will be entitled to an adjustment under the provisions of Paragraph 29 below on the amount of water to which the wells are entitled.

17. Applicants may construct any well within 200 feet of the described locations without amending the Application or reopening this decree.

18. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the provisions of Paragraph 34 below are and have been justified and shall apply.

19. As of March 3, 1986, Applicants have intended to the waters sought in the Application and have claim so demonstrated by open and physical acts on the ground and by the completion of engineering study an and hydrogeological investigation on the water available for appropriation in the Arapahoe Formation. Applicants have demonstrated and manifested an intent to appropriate the waters claimed herein by giving sufficient notice thereof, all in accordance with law. The evidence presented shows that the Applicants intend to appropriate the waters claimed herein, that such intent to appropriate has been adequately demonstrated, and that Applicants are entitled to a decree for the water rights herein decreed.

20. There is unappropriated water available for withdrawal by the structures decreed herein and the vested water rights of others will not be materially injured by the appropriations as decreed. Only that quantity of water underlying the Subject Lands has been considered to be unappropriated; the minimum useful life of the Arapahoe Formation is at least one hundred (100) years, assuming no substantial artificial recharge within one hundred (100) years; and no material injury to vested water rights will result from the issuance of or exercise of the permits for the subject wells.

#### CONCLUSIONS OF LAW

21. The Court has jurisdiction to determine Applicants' rights to nontributary ground water pursuant to Sections 37-90-137(6), 37-92-203(1), and 37-92-302 through 305, C.R.S. (Supp. 1985). The procedures and requirements of these statutes have been complied with, full and adequate notice has been given, and no additional notice is required.

22. The Court concludes as a matter of law that the Application herein is one contemplated by law. The Application for a decree confirming Applicants' right to divert and use ground water from the Arapahoe Formation beneath the Subject Lands, pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The rights confirmed by this decree are vested property rights. The amount of water confirmed in this decree is that quantity of water underlying the Subject Lands and the annual withdrawals are based on an aquifer life of one hundred years.

23. The Court concludes that the rights to ground water determined herein are not conditional water rights and subsequent showings or findings of reasonable diligence under Section 37-92-301(4), C.R.S., are inapplicable and need not be made. Accordingly, each of the water rights adjudicated herein is a final vested property right.

24. Applicants are entitled as a matter of law to use, reuse, and successively use to extinction and dispose of all nontributary ground water decreed herein pursuant to Section 37-82-106, C.R.S. (Supp. 1985) subject only to a 2% relinquishment of Applicants' right to total consumption. Failure to use, reuse or recapture such water, including return flows, shall not be deemed a forfeiture or abandonment of the right to such use, reuse or recapture.

25. The Court shall retain jurisdiction over this matter to make adjustments to the amount of water available for withdrawal annually to conform to the actual aquifer characteristics encountered upon the drilling of the wells. This retained jurisdiction may be invoked only by the parties under Paragraph 36.

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# JUDGMENT AND DECREE

26. The Findings of Fact and Conclusions of Law set forth in Paragraphs 1-25, above are incorporated herein by this reference.

27. The Application for determination of water rights for the subject wells is granted subject to the following limitations.

A right to five hundred seventy-five (575) acre-28. nontributary ground water per year is decreed and feet of confirmed in Applicants pursuant to § 37-90-137(4), C.R.S., for Dines Wells KA-1, KA-2, KA-3, and KA-4, from the Arapahoe Formation for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. Applicants shall have the right to recapture, reuse, and dispose of the water developed by the subject wells. Applicants shall have the right to withdraw water for immediate application to beneficial use and for storage and subsequent application to beneficial use and shall have the right to make any reuse, successive use or disposition of the developed water claimed herein to extinction free of any limitations. restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S. subject only to the provisions of Paragraph 31 below. The water may be withdrawn through the wells described in Paragraph 7 above and through such additional wells as may be required in order to maintain the annual appropriation as determined herein. The proposed withdrawals through Dines Wells KA-1, KA-2, KA-3, and KA-4 and any additional, supplemental, or replacement wells in the amount of 575 acre-feet per year, or in any additional amounts of water from the Arapahoe Formation underlying the Subject Lands, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% annual rate of withdrawal, and those waters of the are nontributary to any natural surface stream, its alluvium, and any ground water tributary thereto, and the proposed withdrawals will not result in material injury to vested water rights.

29. The total amount of water to which Applicants are entitled and which is available to Applicants from the Arapahoe Formation beneath the Subject Lands shall be 575 acre-feet per year or the lesser or greater amount of water each such well is entitled to as subsequently determined from the saturated sand thickness of the Arapahoe Formation determined from the geophysical data obtained from the construction of the wells. Geophysical logs shall be taken in accordance with the applicable rules promulgated by the State Engineer. In making the determination of the final amount of water to which the subject wells are entitled, the following criteria shall apply:

(a) Saturated sand thickness shall be defined as the cumulative thickness of saturated materials as shown on the geophysical logs for each well applying standard accepted geophysical log interpretation methodology;

(b) The specific yield for the Arapahoe Formation shall be 17%;

(c) The water in the Arapahoe Formation underlying the 1410 acres of the Subject Lands shall be considered available for appropriation by the wells decreed herein.

After the completion of the wells subject to this decree, Applicants shall submit the geophysical logs and any other geophysical information obtained from the drilling of the wells to the State Engineer and to the other parties in this action together with a statement from Applicants on the final actual saturated sand thickness and final annual appropriation for each well as determined by Applicants. Within 60 days from the date on which Applicants mail copies of the geophysical logs and statement to the parties herein, any party may petition this Court to invoke the Court's retained jurisdiction under Paragraph 36 of this decree to reconsider the saturated sand thickness of the Arapahoe Formation underlying the Subject Lands for the purpose of adjusting the total entitlement of water to the wells decreed herein. Those proceedings shall be limited exclusively to the issue of saturated sand thickness. If the Court's retained jurisdiction is not invoked within the time prescribed in this Paragraph, the respective amounts set forth in Applicants' statement as the final annual entitlement to each well shall be final, which amount shall be confirmed as final by order of the Court upon Applicants' motion to the Court setting forth facts showing compliance with this Paragraph.

30. The issuance by the Colorado Division of Water Resources pursuant to Colorado Revised Statutes, Section 37-90-137(4) of permits to construct the subject wells is justified and the Division of Water Resources is directed to issue the permits in accordance with Paragraph 34 below. Each of the requirements of the statute has been complied with. Unappropriated waters are available for appropriation from the Arapahoe Formation beneath the Subject Lands and the proposed withdrawals will not result in material injury to other vested water rights. 31. Applicants shall relinquish the right to consume, after use, reuse, and successive use 2% of the water withdrawn through Dines Wells KA-1, KA-2, KA-3 and KA-4 and any additional, supplemental, or replacement wells without regard to dominion or control of the ground water so relinquished.

32. All of the wells described in Paragraph 7 may be used as original and alternate points of diversion for each other permitting the withdrawal by flow rate and volume of up to the full cumulative amount of water which may be lawfully withdrawn from all of those wells from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or decreed conditional water right by the granting of this request, and it is hereby granted.

33. Applicants may withdraw more water than the final annual appropriation for each well so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of issuance of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Arapahoe Formation.

34. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the following provisions shall apply.

(a) The State Engineer shall consider the rights granted herein as valid and shall consider the water sought by Applicants as taken and appropriated by Applicants.

(b) When Applicants are prepared to drill a well described in this decree, Applicants shall apply to the State Engineer for a well permit and that permit shall be issued within 60 days under terms and conditions no less stringent than those set forth in this decree with the conditions for equipping and constructing the well as are specified in Paragraph 35 herein. In the event that a well permit expires prior to the construction of the well and the application of water to beneficial use, Applicants may apply for a new well permit and the State Engineer shall within 60 days issue a new well permit with the same terms and conditions as the permit that expired.

(c) Applicants shall submit well permit applications to the State Engineer's office for any replacement, supplemental or additional wells.

(d) Any well permitted pursuant to this decree which is drilled within 200 feet of the decreed location shall be deemed to have been drilled at the decreed well location and shall not require application for a new or amended well permit.

(e) In determining whether good cause exists for granting a request by Applicants to extend well permits for nontributary wells for one or more additional oneyear periods pursuant to Section 37-90-137(3)(a)(II), C.R.S. (1985 Supp.), the State Engineer shall recognize that each well decreed herein, and such additional wells as are required from time to time to fully recover the annual appropriation herein, are part of a single integrated water supply system to be constructed over a phased period of time. So long as Applicants still desire to use the groundwater the well permits shall be extended.

(f) Prior to constructing any additional wells, Applicants shall submit well permit applications to the State Engineer. In considering such permit applications, the State Engineer shall be governed by Section 37-90-137(10), C.R.S. (1985 Supp.) and the provisions of this decree. Any such permitting action may be reviewed by this Court pursuant to Section 37-92-305(6), C.R.S. (1985 Supp.).

(g) For the purpose of well permit applications, Applicants need not submit separate proof, apart from the terms of this decree, of matters which have been determined herein.

35. Applicants shall geophysically log the entire bore hole of each well prior to the installation of casing. Such logs shall be taken in accordance with the applicable rules promulgated by the State Engineer. In constructing and maintaining any well which will withdraw water from the Arapahoe Formation under this decree, the Applicants shall seal off and encase the well with an impervious lining at all levels, except the level of the Arapahoe Formation, to prevent withdrawal of and mixing of groundwater in other aquifers and a totalizing flow meter shall be installed on each well. After construction the Applicants shall attach an identification tag to the well specifying the name of the well, the permit number and the aquifer from which the water is withdrawn. Applicants shall maintain records of the amounts pumped from each well on a monthly basis and such records shall be provided to the Division Engineer or the State Engineer on request.

36. This Court retains jurisdiction in this case for the reconsideration of the final amounts of water appropriated by the proposed wells in accord with Paragraph 29 above. The Court's retained jurisdiction may be invoked only by the Applicants and JVRC, Inc. The Court's retained jurisdiction may be invoked by written notice to the Court requesting a hearing. Copies of that notice will be served on the parties herein at their latest address of record in this case.

Dated this 29 day of 90t. , 1986.

BY THE COURT

Honorable John Tracey Water Judge Water Division No. 2 State of Colorado

APPROVED AS TO FORM AND SUBSTANCE:

SHERMAN & HOWARD

John L. DeWeerdt #9390

Kenneth L. Salazar #11648 Suite 2900 633 Seventeenth Street Denver, Colorado 80202

Telephone: (303) 297-2900

Attorneys for Applicants, The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines.

Sherman and Howard (Salazar) C: Vranesh & Raisch (Shimmin) Division Engineer State Engineer

VRANESH & RAISCH

Michael D. Shimmin, Post Office Box 871 Boulder, Colorado 80306 Telephone: (303) 443-6151 Attorneys for Objector JVRC, Inc.

Filad in the office of the Clerk, District Court Water Division No. 2, State of Colorado

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#### EXHIBIT A

# The Subject Lands consist of the following:

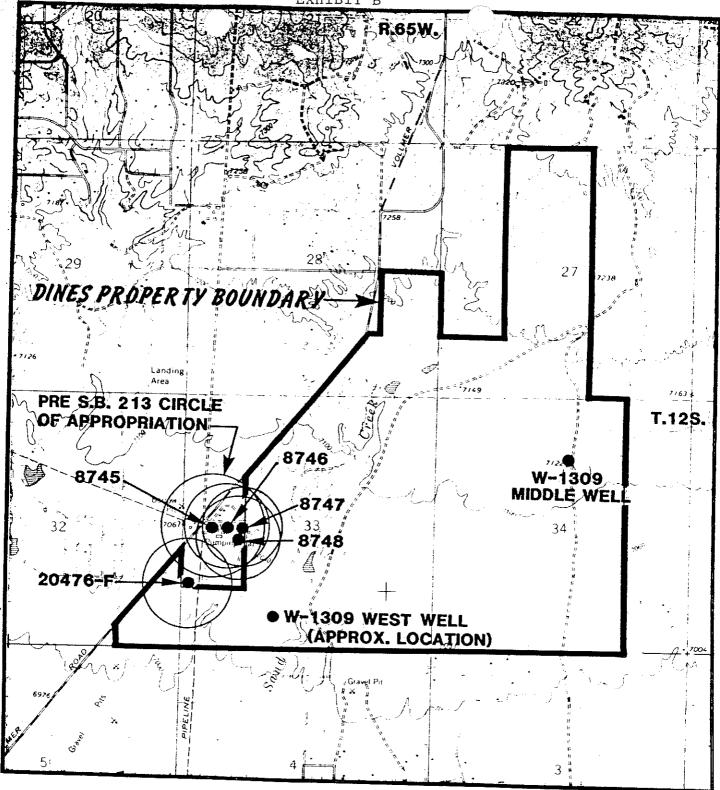
The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the El/2 SEl/4 and that portion of the SW1/4 SEl/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, and that portion of the NEL/4 SEL/4 of said Section 32, lying South and East of said County Road; the EL/2 and the EL/2 SWL/4 and the SWL/4 SWL/4 of Section 33, and all that part of the NW1/4 of said Section 33 lying South and East of the said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the El Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado.

> Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

> > OCT 29 1986

Riscilles Adurers

Clerk



SCALE 1:24000

# **LOCATION MAP**

Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado OCT 29 1986 Priscieles Silvers Clork

**FIGURE 1** 

Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

DISTRICT COURT, WATER DIVISION NO. 2, STATE OF COLORADO 0CT 29 1986

Case No. 86-CW-19

Risciel Artyrers

Clerk

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

CONCERNING THE APPLICATION FOR NONTRIBUTARY GROUND WATER RIGHTS OF THE FIRST INTERSTATE BANK OF DENVER N.A., CARLA W. LEWIS, AND SAMUEL S. SHERMAN AS COTRUSTEES UNDER THE LIFE INSURANCE TRUST OF THOMAS M. DINES FROM THE LARAMIE-FOX HILLS AQUIFER, EL PASO COUNTY.

THIS MATTER, having come on for hearing before the real Court this  $\underline{29}$  day of  $\underline{6et.}$ , 1986 upon the application of The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines ("Applicants") and the Court having considered the pleadings filed and the evidence presented, and being fully advised in the premises, hereby enters the following Findings of Fact, Conclusions of Law, and Judgment and Decree:

#### FINDINGS OF FACT

1. The Applicants are The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines whose address is First Interstate Bank of Denver, 633 Seventeenth Street, Denver, Colorado 80202, Attn: Jack Alexander. Applicants filed the application in this case styled Application For Nontributary Ground Water From The Laramie-Fox Hills Aquifer (the "Application") on March 28, 1986, seeking an adjudication of nontributary ground water rights from the Laramie-Fox Hills Aquifer underlying lands owned by Applicants in El Paso County.

2. Timely and adequate notice of the Application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of the lands or water rights involved in this case are within the boundaries of a designated groundwater basin.

3. A timely statement of opposition was filed by JVRC, Inc. No other statements of opposition were filed within the time provided by law nor did any other parties enter their appearance or intervene in these proceedings. 4. The Water Referee by Order dated July 19, 1986, under Section 37-92-303(2), C.R.S., rereferred the Application to the Water Judge for all further proceedings.

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5. The State Engineer issued a Determination of Facts on the Application, dated July 28, 1986, which has been filed with the Court. The Division Engineer adopted the Determination of Facts as his recommendations on August 8, 1986. The Determination of Facts and the findings contained therein have been reviewed and considered by this Court in accordance with Section 37-92-305(6), C.R.S.

6. Applicants seek an adjudication of rights to nontributary ground water from the Laramie-Fox Hills Aquifer beneath 1,410 acres of land in El Paso County which are described in Exhibit A and depicted on the map attached as Exhibit B, both of which are incorporated herein by this reference (the "Subject Lands"). Applicants are the owners of the Subject Lands and have the right to withdraw and use the waters from the Laramie-Fox Hills Aquifer underlying those lands. The waters claimed herein may be withdrawn through the proposed wells described in Paragraph 7 below and through such additional, replacement and supplemental wells as may be necessary to withdraw all of the water in the Laramie-Fox Hills Aquifer underlying the Subject Lands without causing material injury to any vested water right whose source of supply is the Arkansas River and any of its tributaries or any other natural stream, or any ground water tributary thereto, and the Applicants have so proven.

7. Applicants will divert the waters claimed herein from the Laramie-Fox Hills Aquifer through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 more particularly described as follows:

Well Name: Dines Well KLF-1

- (a) In the SE 1/4 of the NW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 2500 feet from the North Section line and 2300 feet from the West Section line, in El Paso County.
- (b) Depth: 2350 feet.
- (c) Source: Nontributary Laramie-Fox Hills Aquifer.
- (d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KLF-2

- (a) Location: In the SW 1/4 of the SW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 100 feet from the South Section line and 100 feet from the West Section line, in El Paso County.
- (b) Depth: 2250 feet.
- (c) Source: Nontributary Laramie-Fox Hills Aquifer.
- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KLF-3

- (a) Location: In the NW 1/4 of the SE 1/4 of Section 33, Township 12 South, Range 65 West of the 6th P.M., 1400 feet from the South Section line and 2200 feet from the East Section line, in El Paso County.
- (b) Depth: 2150 feet.
- (c) Source: Nontributary Laramie-Fox Hills Aquifer.
- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KLF-4

- (a) Location: In the NE 1/4 of the SW 1/4 of Section 34, Township 12 South, Range 65 West of the 6th P.M., 1400 feet from the South Section line and 2200 feet from the West Section line, in El Paso County.
- (b) Depth: 2150 feet.
- (c) Source: Nontributary Laramie-Fox Hills Aquifer.

- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.
- \* Not to exceed in total the amount available to Applicants from the Laramie-Fox Aquifer pursuant to § 37-90-137(4), C.R.S. and the provisions of this decree.

8. Pursuant to §37-90-137(4), C.R.S., five hundred thirty-nine (539) acre-feet of water per year are available to Applicants from the Laramie-Fox Hills Aquifer underlying the The average thickness of saturated sand of the Subject Lands. Laramie-Fox Hills Aquifer underlying the Subject Lands is 255 the final determination on actual saturated sand feet but thickness will be determined when the wells are drilled, and the amount decreed herein may be subsequently adjusted in accordance with that saturated sand thickness as provided in Paragraph 29 below. The specific yield of the Laramie-Fox Hills Aquifer is 15% in and beneath the Subject Lands. This finding is specific to the property involved and does not indicate or in any way reflect upon proper values for the subject aquifer elsewhere. All the water in the Laramie-Fox Hills Aquifer underlying the Subject Lands remains available for withdrawal by the wells decreed herein.

9. The State Engineer in his Determination of Facts found that 423 acre-feet per year were available for appropriation through the subject wells based on a specific yield of 15% and a saturated sand thickness of 200 feet for the Laramie-Fox Hill Aquifer beneath the Subject Lands. Applicants' engineer has testified that 539 acre-feet per year is available for appropriation calculated with a saturated sand thickness of 255 feet for the Laramie-Fox Hills Aquifer derived from a review of wells in the vicinity of the Subject Lands. Subject to the final determination of saturated sand thickness based on the information derived from the drilling of the wells, Applicants have shown by a preponderance of the evidence that the saturated sand thickness for the Laramie-Fox Hills Aquifer is 255 feet beneath the Applicants' property.

10. The source of water for the proposed wells is nontributary as defined in Section 37-90-103 (10.5), C.R.S. The proposed withdrawals through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 in the amount of 539 acre-feet per year, or in any lesser or greater amount determined under Paragraph 29, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal.

The waters of the Laramie-Fox Hills Aquifer that 11. are the subject of the appropriation claimed herein will be, and Applicants intend that they be used, and Applicants shall have right of succession of uses, for municipal, domestic, the commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. The water will be produced for immediate application to beneficial use and for storage and subsequent application to beneficial use. Subject only to the provisions of Paragraph 31, Applicants shall have the right to make any reuse, successive use or disposition of the developed claimed herein until totally consumed free water of any limitations, restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S.

12. All of the requirements of C.R.S. § 37-90-137(4), in effect on this date have been complied with, and the issuance of permits for the subject wells is justified and those permits will be issued as described in Paragraph 34 below.

13. Applicants will relinquish the right to consume after use, reuse, and successive use 2% of the amount of ground water withdrawn through Dines Wells KLF-1, KLF-2, KLF-3 and KLF-4 and any additional, supplemental, or replacement, wells without regard to dominion or control of the ground water so relinquished.

14. Applicants seek a decree designating all of the wells described in Paragraph 7 above as original and alternate points of diversion for each other permitting the withdrawal of up to the full cumulative amount by flow rate and volume of water which may be lawfully withdrawn from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or decreed conditional water right by the granting of this request, and it is hereby granted.

15. Applicants may withdraw more water than the amounts set forth in Paragraph 8 so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Laramie-Fox Hills Aquifer.

16. Applicants have requested that the Court determine that Applicants have the right to withdraw all of the unappropriated water from the Larimie-Fox Hills Aquifer lying below their land and to increase their annual appropriations based upon the local aquifer characteristics established through information obtained from the drilling of the wells upon notice to all parties and approval by the Court, without amending the Application or republishing. The Court finds that there has been full and adequate notice of these claims and Applicants will be entitled to an adjustment under the provisions of Paragraph 29 below on the amount of water to which the wells are entitled.

17. Applicants may construct any well within 200 feet of the described locations without amending the Application or reopening this decree.

18. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the provisions of Paragraph 34 below are and have been justified and shall apply.

19. As of March 3, 1986, Applicants have intended to claim the waters sought in the Application and have so demonstrated by open and physical acts on the ground and by the completion of an engineering study and hydrogeological investigation on the water available for appropriation in the Laramie-Fox Hills Aquifer. Applicants have demonstrated and manifested an intent to appropriate the waters claimed herein by giving sufficient notice thereof, all in accordance with law. The evidence presented shows that the Applicants intend to appropriate the waters that such claimed herein, intent to appropriate has been adequately demonstrated, and that Applicants are entitled to a decree for the water rights herein decreed.

20. There is unappropriated water available for withdrawal by the structures decreed herein and the vested water others rights of will not be materially injured by the appropriations as decreed. Only that quantity of water underlying the Subject Lands has been considered to be unappropriated; the minimum useful life of the Laramie-Fox Hills Aquifer is at least one hundred (100) years, assuming no substantial artificial recharge within one hundred (100) years; and no material injury to vested water rights will result from the issuance of or exercise of the permits for the subject wells.

#### CONCLUSIONS OF LAW

21. The Court has jurisdiction to determine Applicants' rights to nontributary ground water pursuant to Sections 37-90-137(6), 37-92-203(1), and 37-92-302 through 305, C.R.S. (Supp. 1985). The procedures and requirements of these statutes have been complied with, full and adequate notice has been given, and no additional notice is required. 22. The Court concludes as a matter of law that the Application herein is one contemplated by law. The Application for a decree confirming Applicants' right to divert and use ground water from the Laramie-Fox Hills Aquifer beneath the Subject Lands, pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The rights confirmed by this decree are vested property rights. The amount of water confirmed in this decree is that quantity of water underlying the Subject Lands and the annual withdrawals are based on an aquifer life of one hundred years.

23. The Court concludes that the rights to ground water determined herein are not conditional water rights and subsequent showings or findings of reasonable diligence under Section 37-92-301(4), C.R.S., are inapplicable and need not be made. Accordingly, each of the water rights adjudicated herein is a final vested property right.

24. Applicants are entitled as a matter of law to use, reuse, and successively use to extinction and dispose of all nontributary ground water decreed herein pursuant to Section 37-82-106, C.R.S. (Supp. 1985) subject only to a 2% relinquishment of Applicants' right to total consumption. Failure to use, reuse or recapture such water, including return flows, shall not be deemed a forfeiture or abandonment of the right to such use, reuse or recapture.

25. The Court shall retain jurisdiction over this matter to make adjustments to the amount of water available for withdrawal annually to conform to the actual aquifer characteristics encountered upon the drilling of the wells. This retained jurisdiction may be invoked only by the parties under Paragraph 36.

#### JUDGMENT AND DECREE

26. The Findings of Fact and Conclusions of Law set forth in Paragraphs 1-25, above are incorporated herein by this reference.

27. The Application for determination of water rights for the subject wells is granted subject to the following limitations.

28. A right to five hundred thirty-nine (539) acrefeet of nontributary ground water per year is decreed and confirmed in Applicants pursuant to § 37-90-137(4), C.R.S., for Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4, from the Laramie-Fox Hills Aquifer for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation,

exchange, replacement of depletions, augmentation, livestock and agricultural uses. Applicants shall have the right to recapture, reuse, and dispose of the water developed by the subject wells. Applicants shall have the right to withdraw water for immediate application to beneficial use and for storage and subsequent application to beneficial use and shall have the right to make any reuse, successive use or disposition of the developed water herein claimed extinction free of to limitations, any restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S. subject only to the provisions of Paragraph 31 below. The water may be withdrawn through the wells described in Paragraph 7 above and through such additional wells as may be required in order to maintain the annual appropriation as determined herein. The proposed withdrawals through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 and any additional, supplemental, or replacement wells in the amount of 539 acre-feet per year, or in any additional amounts of water from the Laramie-Fox Hills Aquifer underlying the Subject Lands, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal, and is nontributary to any natural surface stream, its alluvium, and any ground water tributary thereto, and the proposed withdrawals will not result in material injury to vested water rights.

29. The total amount of water to which Applicants are entitled and which is available to Applicants from the Laramie-Fox Hills Aquifer beneath the Subject Lands shall be 539 acrefeet per year or the lesser or greater amount of water each such well is entitled to as subsequently determined from the saturated sand thickness of the Laramie-Fox Hills Aquifer determined from the qeophysical data obtained from the construction of the wells. Geophysical logs shall be taken in accordance with the applicable rules promulgated by the State Engineer. In making the determination of the final amount of water to which the subject wells are entitled, the following criteria shall apply:

(a) Saturated sand thickness shall be defined as the cumulative thickness of saturated materials as shown on the geophysical logs for each well applying standard accepted geophysical log interpretation methodology;

(b) The specific yield for the Laramie-Fox Hills Aquifer shall be 15%;

(c) The water in the Laramie-Fox Hills Aquifer underlying the 1410 acres of the Subject Lands shall be considered available for appropriation by the wells decreed herein.

After the completion of the wells subject to this decree, Applicants shall submit the geophysical logs and any other geophysical information obtained from the drilling of the wells to the State Engineer and to the other parties in this action together with a statement from Applicants on the final actual saturated sand thickness and final annual appropriation for each well as determined by Applicants. Within 60 days from the date on which Applicants mail copies of the geophysical logs and statement to the parties herein, any party may petition this Court to invoke the Court's retained jurisdiction under Paragraph 36 of this decree to reconsider the saturated sand thickness of the Laramie-Fox Hills Aquifer underlying the Subject Lands for the purpose of adjusting the total entitlement of water to the wells decreed herein. Those proceedings shall be limited exclusively to the issue of saturated sand thickness. If the Court's retained jurisdiction is not invoked within the time prescribed in this Paragraph, the respective amounts set forth in Applicants' statement as the final annual entitlement to each shall be final, which amount shall be confirmed as final by well order of the Court upon Applicants' motion to the Court setting forth facts showing compliance with this Paragraph.

30. The issuance by the Colorado Division of Water Resources pursuant to Colorado Revised Statutes, Section 37-90-137(4) of permits to construct the subject wells is justified and the Division of Water Resources is directed to issue the permits in accordance with Paragraph 34 below. Each of the requirements of the statute has been complied with. Unappropriated waters are available for appropriation from the Laramie-Fox Hills Aquifer beneath the Subject Lands and the proposed withdrawals will not result in material injury to other vested water rights.

31. Applicants shall relinquish the right to consume, after use, reuse, and successive use 2% of the water withdrawn through Dines Wells KLF-1, KLF-2, KLF-3 and KLF-4 and any additional, supplemental, or replacement wells without regard to dominion or control of the ground water so relinquished.

32. All of the wells described in Paragraph 7 may be used as original and alternate points of diversion for each other permitting the withdrawal by flow rate and volume of up to the full cumulative amount of water which may be lawfully withdrawn from all of those wells from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or decreed conditional water right by the granting of this request, and it is hereby granted.

33. Applicants may withdraw more water than the final annual appropriation for each well so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of issuance of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Laramie-Fox Hills Aquifer.

34. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the following provisions shall apply.

(a) The State Engineer shall consider the rights granted herein as valid and shall consider the water sought by Applicants as taken and appropriated by Applicants.

(b) When Applicants are prepared to drill a well described in this decree, Applicants shall apply to the State Engineer for a well permit and that permit shall be issued within 60 days under terms and conditions no less stringent than those set forth in this decree with the conditions for equipping and constructing the well as are specified in Paragraph 35 herein. In the event that a well permit expires prior to the construction of the well and the application of water to beneficial use, Applicants may apply for a new well permit and the State Engineer shall within 60 days issue a new well permit with the same terms and conditions as the permit that expired.

(c) Applicants shall submit well permit applications to the State Engineer's office for any replacement, supplemental or additional wells.

(d) Any well permitted pursuant to this decree which is drilled within 200 feet of the decreed location shall be deemed to have been drilled at the decreed well location and shall not require application for a new or amended well permit.

(e) In determining whether good cause exists for granting a request by Applicants to extend well permits for nontributary wells for one or more additional oneyear periods pursuant to Section 37-90-137(3)(a)(II), C.R.S. (1985 Supp.), the State Engineer shall recognize that each well decreed herein, and such additional wells as are required from time to time to fully recover the annual appropriation herein, are part of a single integrated water supply system to be constructed over a phased period of time. So long as Applicants still desire to use the groundwater the well permits shall be extended.

(f) Prior to constructing any additional wells, Applicants shall submit well permit applications to the State Engineer. In considering such permit applications, the State Engineer shall be governed by Section 37-90-137(10), C.R.S. (1985 Supp.) and the provisions of this decree. Any such permitting action may be reviewed by this Court pursuant to Section 37-92-305(6), C.R.S. (1985 Supp.).

(g) For the purpose of well permit applications, Applicants need not submit separate proof, apart from the terms of this decree, of matters which have been determined herein.

35. Applicants shall geophysically log the entire bore hole of each well prior to the installation of casing. Such logs shall be taken in accordance with the applicable rules promulgated by the State Engineer. In constructing and maintaining any well which will withdraw water from the Laramie-Fox Hills Aquifer under this decree, the Applicants shall seal off and encase the well with an impervious lining at all levels, except the level of the Laramie-Fox Hills Aquifer, to prevent withdrawal of and mixing of groundwater in other aquifers and a totalizing flow meter shall be installed on each well. After construction the Applicants shall attach an identification tag to the well specifying the name of the well, the permit number and the aquifer from which the water is withdrawn. Applicants shall maintain records of the amounts pumped from each well on a monthly basis and such records shall be provided to the Division Engineer or the State Engineer on request.

36. This Court retains jurisdiction in this case for the reconsideration of the final amounts of water appropriated by the proposed wells in accord with Paragraph 29 above. The Court's retained jurisdiction may be invoked only by the Applicants and JVRC, Inc. The Court's retained jurisdiction may be invoked by written notice to the Court requesting a hearing. Copies of that notice will be served on the parties herein at their latest address of record in this case.

Dated this 29 day of Oct., 1986.

BY THE COURT

Honorable John Tracey Water Judge Water Division No. 2 State of Colorado

APPROVED AS TO FORM AND SUBSTANCE:

SHERMAN & HOWARD

John L. DeWeerdt #9390

Kenneth L. Salazar #11648 Suite 2900 633 Seventeenth Street Denver, Colorado 80202

Telephone: (303) 297-2900

Attorneys for Applicants, The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines.

c: Sherman and Howard (Salazar) Vranesh & Raisch (Shimmin) Division Engineer State Engineer VRANESH & RAISCH

By: / 4

Michael D. Shimmin, #9182 Post Office Box 871 Boulder, Colorado 80306 Telephone: (303) 443-6151 Attorneys for Objector JVRC, Inc.

Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

OCT 29 1986

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#### EXHIBIT A

# The Subject Lands consist of the following:

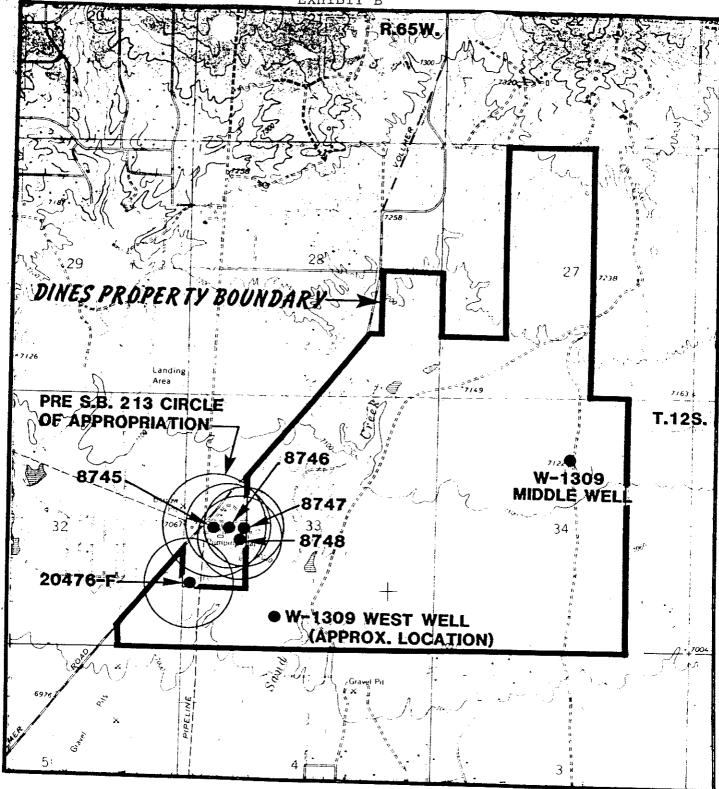
The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the El/2 SEl/4 and that portion of the SWl/4 SEl/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, and that portion of the NE1/4 SE1/4 of said Section 32, lying South and East of said County Road; the E1/2 and the E1/2 SW1/4 and the SW1/4 SW1/4 of Section 33, and all that part of the NW1/4 of said Section 33 lying South and East of the said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the El Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado.

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# SCALE 1:24000

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**FIGURE 1** 

LOCATION MAP

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DISTRICT COURT	, WATER	<b>DIVISION 2,</b>	COLORADO
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Court Address: 501 North Elizabeth Street, Suite 116 Pueblo, CO 81003

CONCERNING THE APPLICATION FOR WATER RIGHTS OF:

ARROYA INVESTMENTS, LLC, JACOB DECOTO, MARVIN ORNES and TERRI WAHLBERG CASE NUMBER: 2017CW3002

DATE FILED: May 31, 2017 9:37 AM

▲ COURT USE ONLY ▲

Case No.: 17CW3002

# IN EL PASO COUNTY

FINDINGS OF FACT, CONCLUSIONS OF LAW, RULING OF REFEREE AND DECREE

THIS MATTER comes before the Water Referee on the Application filed by Arroya Investments, LLC, Jacob Decoto, Marvin Ornes and Terri Wahlberg, and having reviewed said Application and other pleadings on file, and being fully advised on this matter, the Water Referee makes the following findings and orders:

# **GENERAL FINDINGS OF FACT**

1. The applicants in this case are Arroya Investments, LLC ("Arroya"), Jacob Decoto ("Decoto"), Marvin Ornes ("Ornes") and Terri Wahlberg ("Wahlberg") (collectively, "Applicants"). Applicants are, collectively, the owners of the four separately owned parcels of land totaling approximately 335.59 acres under which the groundwater sought to be adjudicated herein are located, and are likewise the owners of the place of use where the water is anticipated to be put to beneficial use.

2. The Applicants filed this Application with the Water Court for Water Division 2 on January 31, 2017. The Application was referred to the Water Referee by order of the Court dated February 2, 2017.

3. The time for filing statements of opposition to the Application expired on the last day of March, 2017, and a no statements of opposition were timely filed.

4. On February 2, 2017, the Division 2 Water Court ordered that publication occur in the *Daily Transcript* within El Paso County.

5. The Clerk of this Court has caused publication of the Application filed in this matter as provided by statute and the publication costs have been paid. On February 15, 2017, proof of publication in the *Daily Transcript* was filed with the Court. All notices of the Application have been given in the manner required by law.

6. Pursuant to C.R.S. §37-92-302(2), the Office of the State Engineer has filed Determination of Facts for each aquifer with this Court dated March 14, 2017.

7. Pursuant to C.R.S. §37-92-302(4), the office of the Division Engineer for Water Division 2 filed its Consultation Report dated March 29, 2017, with the Court. The Consultation Report has been considered by the Water Referee in the entry of this Ruling.

8. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties whether they have appeared or not. The land and water rights involved in this case are not within a designated groundwater basin.

### **GROUNDWATER RIGHTS**

9. The Applicants requested the adjudication and quantification all Denver Basin groundwater in each aquifer underlying the four (4) specifically described parcels of land owned by each of the Applicants, respectively, as described herein. No plan for augmentation for the use of the not-nontributary groundwater was sought or is decreed herein. The Applicants shall construct such wells as necessary for withdrawal of Applicants' full entitlements of water supplies decreed herein. The following findings are made with respect to such underground water rights:

A. <u>Property Description</u>. All wells to all aquifers will be located on the Applicants respective properties. Such Properties are more specifically described as follows:

i. <u>Arroya Parcel</u>. The "Arroya Parcel" is an approximately 226 acre parcel located in the SE1/4 SE1/4 of Section 21, the W1/2 SW1/4 of Section 22, the E1/2 NE1/4 of Section 28, the W1/2 NW1/4 and the NW1/4 SW1/4 of Section 27, all in Township 21 South, Range 65 West of the 6<sup>th</sup> P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit A**, and depicted on attached **Exhibit E**. The Arroya Parcel is owned by Applicant Arroya Investments, LLC.

ii. <u>West Parcel No. 1</u>. The "West Parcel No. 1" is an approximately 36.01 acre parcel located in the SW1/4 SE1/4 and the SE1/4 SE1/4 of Section 21, and the NE1/4 NE1/4 of Section 27, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit B**, and depicted on attached **Exhibit E**. The West Parcel No. 1 is owned by Applicant Jacob Decoto.

iii. <u>West Parcel No. 2</u>. The "West Parcel No. 2" is an approximately 36.03 acre parcel located in the SW1/4 SE1/4 and the SE1/4 SE1/4 of Section 21, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit C**, and depicted on attached **Exhibit E**. The West Parcel No. 2 is owned by Applicant Jacob Decoto.

iv. <u>West Parcel No. 3</u>. The "West Parcel No. 3" is an approximately 37.58 acre parcel located in the NW1/4 SE1/4 and the NE1/4 SE1/4 of Section 21, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit D**, and depicted on attached **Exhibit E**. The West Parcel No. 3 is owned by Applicants Marvin Ornes and Terri Wahlberg.

B. <u>Existing Wells</u>. There is currently one (1) existing well constructed to the Dawson aquifer on West Parcel No. 2 (Decoto): DWR Permit No. 4554, an exempt domestic well. DWR Permit No. 4554 is an exempt structure; water from the Dawson aquifer sufficient to allow for such continued exempt use has been excluded from the quantification herein. Two additional exempt domestic wells have been permitted since the filing of the application in this matter, DWR Permit No. 304551 on West Parcel No. 1 (Decoto), and DWR Permit No. 304498 on West Parcel No. 3 (Ornes/Wahlberg), and are excluded from quantification herein.

C. <u>Additional Wells</u>. Applicants anticipated additional wells will be constructed on each the Applicants' respective properties. To the extent any additional wells may be constructed to the not-nontributary Dawson and/or Denver aquifer(s), such wells may be constructed only pursuant to a subsequent decree providing an approved plan for augmentation, or as exempt well structures pursuant to C.R.S. §37-92-602.

10. Of the statutorily described Denver Basin aquifers, the Dawson, Denver, Arapahoe, and Laramie-Fox Hills aquifers all exist beneath the Applicants' respective properties. The Dawson and Denver aquifers contain not-nontributary water, while the water of the Arapahoe and Laramie-Fox Hills aquifers underlying the Applicants' respective properties is nontributary. The quantity of water in the Denver Basin aquifers exclusive of artificial recharge underlying each of the Applicants' respective properties as allocated on a pro-rata per acre basis from the amounts described in the State Engineer's Determination of Facts, is as follows:

Aquifer	Sand Thickness (Feet)	Total Ground Water Storage (Acre Feet)	Annual Average Withdrawal – 100 Years (Acre Feet)
Dawson (NNT)	270	12,202	122
Denver (NNT)	310	11,909	119.1
Arapahoe (NT)	255	9,796	98
Laramie-Fox Hills (NT)	190	6,440	64.4

	Α.	<u>Arroya</u>	Parcel	(225.97	acres)	:
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Aquifer	Sand Thickness (Feet)	Total Ground Water Storage (Acre Feet)	Annual Average Withdrawal – 100 Years (Acre Feet)
Dawson (NNT)	270	1,944.4	16.44 <sup>1</sup>
Denver (NNT)	310	1,897.7	18.98
Arapahoe (NT)	255	1,561	15.61
Laramie-Fox Hills (NT)	190	1,026.2	10.26

# B. <u>West Parcel No. 1 (Decoto – 36.01 acres)</u>:

# C. <u>West Parcel No. 2 (Decoto – 36.03 acres)</u>:

Aquifer	Sand Thickness (Feet)	Total Ground Water Storage (Acre Feet)	Annual Average Withdrawal – 100 Years (Acre Feet)
Dawson (NNT)	270	1,945.4	16.45 <sup>2</sup>
Denver (NNT)	310	1,898.8	18.99
Arapahoe (NT)	255	1,562	15.62
Laramie-Fox Hills (NT)	190	1,026.8	10.27

#### D. West Parcel No. 3 (Ornes & Wahlberg – 37.58 acres):

Aquifer	Sand Thickness (Feet)	Total Ground Water Storage (Acre Feet)	Annual Average Withdrawal – 100 Years (Acre Feet)
Dawson (NNT)	270	2,029.2	17.29 <sup>3</sup>
Denver (NNT)	310	1,980.5	19.80
Arapahoe (NT)	255	1,629	16.29
Laramie-Fox Hills (NT)	190	1,071	10.7

<sup>&</sup>lt;sup>1</sup> Three (3) annual acre feet of Dawson groundwater has been reserved from quantification herein for permitting of an exempt domestic well on this parcel pursuant to C.R.S. §37-92-602, *et seq.*, recently permitted as DWR Permit No. 304551.

<sup>&</sup>lt;sup>2</sup> Three (3) annual acre feet of Dawson groundwater has been reserved from quantification herein for continued use of DWR Permit No. 4554 as an exempt domestic well on this parcel pursuant to C.R.S. \$37-92-602, et seq.

<sup>&</sup>lt;sup>3</sup> Three (3) annual acre feet of Dawson groundwater has been reserved from quantification herein for permitting of an exempt domestic well on this parcel pursuant to C.R.S. §37-92-602, et seq., recently permitted as DWR Permit No. 304498.

11. Pursuant to \$37-90-137(9)(c.5)(I), C.R.S., the augmentation requirements for wells in the Dawson aquifer require the replacement to the effected stream systems of actual stream depletions on an annual basis, to the extent necessary to prevent injurious effect, based upon actual aquifer conditions. The augmentation requirements for wells to the Denver aquifer are for 4% of pumping. Applicants shall not be entitled to construct a non-exempt well or use water from the not-nontributary Dawson or Denver aquifers except pursuant to an approved augmentation plan in accordance with C.R.S. \$37-90-137(9)(c.5).

12. Applicants shall be entitled to withdraw all legally available groundwater in the Denver Basin aquifers underlying Applicants' respective properties. Said amounts can be withdrawn over the 100-year life for the aquifers as set forth in C.R.S. §37-90-137(4), or withdrawn over a longer period of time based upon local governmental regulations or Applicants' water needs. The average annual amounts of ground water available for withdrawal from the underlying Denver Basin aquifers, based upon the 100-year aquifer life is determined and set forth above, based upon the March 14, 2017 Office of the State Engineer Determination of Facts. Such groundwater may be withdrawn from wells located upon the overlying land or contiguous properties with such contiguity to allow such withdrawal, consistent with the Denver Basin Rules as promulgated by the Office of the State Engineer, as may be amended from time to time.

13. Applicants shall be entitled to withdraw an amount of groundwater in excess of the average annual amount decreed herein from the Denver Basin aquifers underlying Applicants' respective properties, so long as the sum of the total withdrawals from wells in the aquifer does not exceed the product of the number of years since the date of issuance of the original well permit or the date of entry of the decree herein, whichever comes first, and the annual volume of water which Applicants are entitled to withdraw from the aquifer underlying Applicants' respective properties.

The Applicants shall have the right to use the ground water for beneficial 14. uses on or off the Applicants' respective properties consisting of domestic, commercial, irrigation, stock water, recreation, wildlife, wetlands, fire protection, piscatorial, and for storage and augmentation associated with such uses. The amount of groundwater decreed for such uses upon the Applicants' respective properties is reasonable as such uses are to be made for the long term use and enjoyment of the Applicants' respective properties and are to establish and provide for adequate water reserves. The nontributary groundwater, may be used, reused, and successively used to extinction, both on and off the Applicants' respective properties subject, however, to the relinquishment of the right to consume two percent of such nontributary water withdrawn. Applicants may use such water by immediate application or by storage and subsequent application to the beneficial uses and purposes stated herein. Provided however, as set forth above, Applicants shall only be entitled to construct a non-exempt well or use water from the not-nontributary Dawson and Denver aquifers pursuant to a decreed augmentation plan entered by the Court. Withdrawals of groundwater available from the nontributary aquifers beneath the Applicants' respective properties in the amounts determined in accordance with the provisions of this decree will not result in material injury to any other vested water rights or to any other owners or users of water.

15. Applicants may construct such wells on their respective properties as necessary for the withdrawal of all entitlements from each aquifer as described above, and such withdrawals may be made through any combination of wells. As to each of Applicants' respective properties, these wells shall be treated as a well field.

#### CONCLUSIONS OF LAW

16. The application for adjudication of Denver Basin groundwater was filed with the Water Clerk for Water Division 2 pursuant to C.R.S. \$37-92-302(1)(a) and 37-90-137(9)(c).

17. The Applicants' request for adjudication of these water rights is contemplated and authorized by law, and this Court and the Water Referee have exclusive jurisdiction over these proceedings. C.R.S. §§37-92-302(1)(a), 37-92-203, and 37-92-305.

18. Subject to the terms of this decree, the Applicants are entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the Applicants' respective properties, and the right to use that water to the exclusion of all others subject to the terms of this decree.

19. The Applicants have complied with C.R.S. §37-90-137(4), and the groundwater is legally available for withdrawal by the requested nontributary well(s), and legally available for withdrawal by the requested not-nontributary well(s) upon the entry of a subsequent decree approving an augmentation plan pursuant to C.R.S. §37-90-137(9)(c.5). Applicants are entitled to a decree from this Court confirming their rights to withdraw groundwater pursuant to C.R.S. §37-90-137(4).

20. The Denver Basin water rights applied for in this case are not conditional water rights, but are vested water rights determined pursuant to C.R.S. §37-90-137(4). No applications for diligence are required. The claims for nontributary and not-nontributary groundwater meet the requirements of Colorado Law.

21. The determination and quantification of the nontributary and notnontributary groundwater rights in the Denver Basin aquifers as set forth herein is contemplated and authorized by law. C.R.S. §§37-90-137, and 37-92-302 through 37-92-305.

#### IT IS THEREFORE ORDERED, ADJUDGED AND DECREED AS FOLLOWS:

22. All of the foregoing Findings of Fact and Conclusions of Law are incorporated herein by reference, and are considered to be a part of this decretal portion as though set forth in full.

23. The Application for Adjudication of Denver Basin Groundwater proposed by the Applicants is approved, subject to the terms of this decree.

24. The Applicants have furnished acceptable proof as to all claims and, therefore, the Application for Adjudication of Groundwater as requested by the Applicants is granted and approved in accordance with the terms and conditions of this decree. Approval of this Application will not result in any material injury to senior vested water rights.

25. The Applicants shall comply with C.R.S. §37-90-137(9)(b), requiring the relinquishment of the right to consume two percent (2%) of the amount of the nontributary groundwater withdrawn. Ninety-eight percent (98%) of the nontributary groundwater withdrawn may therefore be consumed. No plan for augmentation shall be required to provide for such relinquishment.

26. The Court retains jurisdiction over this matter to make adjustments in the allowed average annual amount of withdrawal from the Denver Basin aquifers, either upwards or downwards, to conform to actual local aquifer characteristic, and that the Applicants need not refile, republish, or otherwise amend this application to request such adjustments.

A. At such time as adequate data may be available, Applicant or the State Engineer may invoke the Court's retained jurisdiction as provided in this Paragraph 26 for purposes of making a final determination of water rights as to the quantities of water available and allowed average annual withdrawals from any of the Denver Basin aquifers quantified and adjudicated herein. Any person seeking to invoke the Court's retained jurisdiction for such purpose shall file a verified petition with the Court setting forth with particularity the factual basis for such final determination of Denver Basin water rights under this decree, together with the proposed decretal language to effect the petition. Within four months of the filing of such verified petition, the State Engineer's Office shall utilize such information as available to make a final determination of water rights finding, and shall provide such information to the Court, Applicant, and the petitioning party.

B. If no protest is filed with the Court to such findings by the State Engineer's Office within sixty (60) days, this Court shall incorporate by entry of an Amended Decree such "final determination of water rights", and the provisions of this Paragraph 26 concerning adjustments to the Denver Basin ground water rights based upon local aquifer conditions shall no longer be applicable. In the event of a protest being timely filed, or should the State Engineer's Office make no timely determination as provided in Paragraph 26.A., above, the "final determination of water rights" sought in the petition may be made by the Water Court after notice to all parties and following a full and fair hearing, including entry of an Amended Decree, if applicable in the Court's reasonable discretion.

27. Pursuant to C.R.S. §37-92-502(5)(a), the Applicants shall install and maintain such water measurement devices and recording devices as are deemed essential by the State Engineer or Division Engineers, and the same shall be installed and operated in accordance with instructions from said entities. Applicants are to install and maintain a totalizing flow meter on all wells, and any additional or replacement wells. Applicants are also to maintain records and provide reports to the State Engineer or Division Engineers as instructed by said entities, on at least an annual basis.

28. The vested water rights and water right structures decreed herein shall be subject to all applicable administrative rules and regulations, as currently in place or as may in the future be promulgated, of the offices of Colorado State and Division Engineers for administration of such water rights, to the extent such rules and regulations are uniformly applicable to other similarly situated water rights and water users.

29. This Ruling of Referee, when entered as a decree of the Water Court, shall be recorded in the real property records of El Paso County, Colorado. Copies of this ruling shall be mailed as provided by statute.

DATED THIS 5th day of May, 2017.

BY THE REFEREE:



Marado R. Di Dominico

Mardell R. DiDomenico, Water Referee Water Division 2

#### DECREE

THE COURT FINDS THAT NO PROTEST WAS MADE IN THIS MATTER, THEREFOR THE FORGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated: May 31, 2017.



BY THE COURT:

LARRY C SCHWARTZ, WATER JUDGE WATER DIVISION 2

# EXHIBIT A

#### **LEGAL DESCRIPTION – ARROYA PARCEL**

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE SOUTHWEST ONE-QUARTER OF SECTION 22, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30°E. A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27; THENCE S88°38'56"W ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1047.88 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S88°38'56"W CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 283.03 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27 SAID POINT ALSO BEING A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE ALONG THE EASTERLY AND NORTHERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N00°37'14"W SAID LINE ALSO BEING THE WEST LINE OF THE SOUTHWEST ONE-QUARTER (SW1/4) OF SAID SECTION 22, A DISTANCE OF 30.00 FEET; 2. S89°40'23"W, A DISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF SAID COUNTY RECORDS;

THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1798.07 FEET;

THENCE N59°58'50'E, A DISTANCE OF 694.83 FEET; THENCE S14°30'58"E, A DISTANCE OF 567.09 FEET; THENCE N69°36'18"E, A DISTANCE OF 603.87 FEET; THENCE S30°23'46"E, A DISTANCE OF 264.58 FEET; THENCE S61°52'38"W, A DISTANCE OF 227.40 FEET;

THENCE S79°15'47"W, A DISTANCE OF 276.17 FEET; THENCE S89°39'18"W, A DISTANCE OF 356.07 FEET; THENCE S40°09'47"W, A DISTANCE OF 310.61 FEET; THENCE S09°56'46"W, A DISTANCE OF 270.03 FEET; THENCE S35°00'25"W, A DISTANCE OF 167.38 FEET; THENCE S57°24'01"W, A DISTANCE OF 235.36 FEET; THENCE S27°23'34"E, A DISTANCE OF 611.29 FEET TO THE POINT OF BEGINNING; SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 35.08 ACRES OF LAND, MORE OR LESS.

Along With:

A PARCEL OF LAND BEING THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (SW1/4 NW1/4) OF SECTION 27, THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SECTION 27, A PORTION OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER OF SECTION 28 AND A PORTION OF THE NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4) OF SECTION 28, ALL IN TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S00°54'30"E ALONG THE EAST LINE OF THE WEST ONE-HALF (W1/2) OF SAID SECTION 27, A DISTANCE OF 3925.63 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER NW1/4 SW1/4) OF SAID SECTION 27,

THENCE S87°35'00"W ALONG THE SOUTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1332.78 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4);

THENCE N00°53'18"W ALONG THE WEST LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1316.78 FEET TO THE NORTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4);

THENCE S89°08'28"W ALONG THE SOUTH LINE OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4) OF SECTION 28, A DISTANCE OF 1326.68 FEET TO THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4);

THENCE N00°30'49"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4), A DISTANCE OF 1270.77 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN

BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1450.84 FEET TO THE POINT OF INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY RECORDS;

THENCE ALONG THE SOUTHERLY AND EASTERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N89°40'23"E, A DISTANCE OF 761.52 FEET TO A POINT ON THE EAST LINE OF SAID NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4); 2. N00°52'58"W ALONG SAID EAST LINE, A DISTANCE OF 30.00 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27;

THENCE N88°38'56''E ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1330.91 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 190.89 ACRES OF LAND, MORE OR LESS.

# EXHIBIT B

#### LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 1:

A PARCE, OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE NORTHCAST ONE-QUARTER (NE1/4) OF SECTION 28, TOMNSHIP 12 SOUTH, HANGE 65 MEST OF THE 5TH P.M., EL PASO DOWNLY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS.

SASIS OF BEARINCS: THE WEST CIRE OF THE SOUTHEAST ONE-QUARTER (SET/4) OF SECTION 21, TOWNSHP 12 SOUTH, RANCE OS WEST IS ASSUMED TO BEAR NOR25732%, A DISTANCE OF 2638.53 FEET.

COMMENSION AT THE REATHINGST CORRECT OF DAID SOUTHEAST ONE-OLARTER (3E1/\*) SAID FORT ALSO BEING THE POINT OF BECKNING OF THE PARCEL OF LAND HEREIN DESCRIBED: THENCE NDC25'32'W ALGOLG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER (SEX/4), A DISTANCE OF 850-11 FEET.

THENCE N89140'SIT, A DISTANCE OF 2077.12 FEET TO A POINT ON THE MESTERLY RIGHT-OF-WAY LINE OF VOLLIMER RUAD AS DESCRIPTION THE OCCULARINT RECORDED IN BOOK 2678 AT PACE 430 GR THE RECORDES OF THE EL PABO COUNTY CLERK AND RECORDER. THENCE SZITATIOW ALONG SAID WESTERLY RIGHT-OF-WAY LINE, A DISTANCE IN 2813.88 FEET TO A POINT

THENCE SETATION ACONG SAID DESTENCT RIGHT-OF-WAY LINE, A DISTANCE OF 2013.38 FEET TO A POINT ON THE EAST LINE OF THE MONTHMEST CINE-QUARTER OF THE NONTHEAST ONE-QUARTER (NUMLA NET/4) OF SAID SECTION 28:

THENCE NOTATITY ALLONG SAID EAST LINE, A DISTANCE OF 1217.12 FUT TO DHE SOUTHEAST DORMER OF THE SOUTHWEST ONE QUARTER OF THE SOUTHEAST ONE-QUARTER (SW174 SEL/4) OF SAID SECTION 21: THENCE 383740'14'W ALONG THE SOUTH UNE OF SAID SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER (SW1/4 SEL/4), A DISTANCE OF 1313.40 FEST TO THE POINT OF BEQUINES

SAD PARCEL OF LAND CONTAINS & CALCULATED AREA OF SHOT ACRES OF LAND. ROPE OF LESS

# EXHIBIT C

#### LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 2:

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-DUARTER (SE)/A) OF SECTION 21. TOWNSHIP 12 SOUTH, BANGE 65 WEST OF THE SIXTH PRINCIPAL MERICIAN, EL PASO COUNTY, COLORADO, BONG MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS. THE WEST LINE OF THE SCUTHEAST ONE-QUARTER (SET/4) OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 65 WEST IS ASSUMED TO BEAR NOO'25 32"N, A DISTANCE OF 2638-53 FEET,

COMMENCING AT THE SOUTHWEST CORNER OF SAID SOUTHEAST CHE-QUARTER (SCI/4) THENCE NOO'2S'32 W ALONG THE WEST LINE OF SAID SOUTHEAST CHE-QUARTER (SCI/4). A DISTANCE OF 650.11 FLET TO THE POINT OF BEDMINEND OF THE PARCEL OF LAND HEPEDN DESCRIDED. THENCE NOU'2S 32 W CONTINUING ALONG SAID WEST UNE, A DISTANCE OF 705.70 FLET THENCE NOU'SS 32 W CONTINUING ALONG SAID WEST UNE, A DISTANCE OF 705.70 FLET THENCE NOTAGEST AND CONTINUING ALONG SAID WEST UNE, A DISTANCE OF 705.70 FLET VOLUMED ROAD AS DESCRIBED IN THE DOCUMENT RECORDED IN BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PAGE COUNTY OLERS AND RECORDER. THENCE SEGNAD'S WALCING SAID WESTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 762.26 FEEL THENCE SEGNAD'STW. A DISTANCE OF 2077.12 FEET TO THE POINT OF BESINNENG.

SAID PARCEL OF LAND CONTAINS & CALCULATED AREA OF 36:03 ACRES OF LAND , HORE OF JESS.

# EXHIBIT D

#### LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 3:

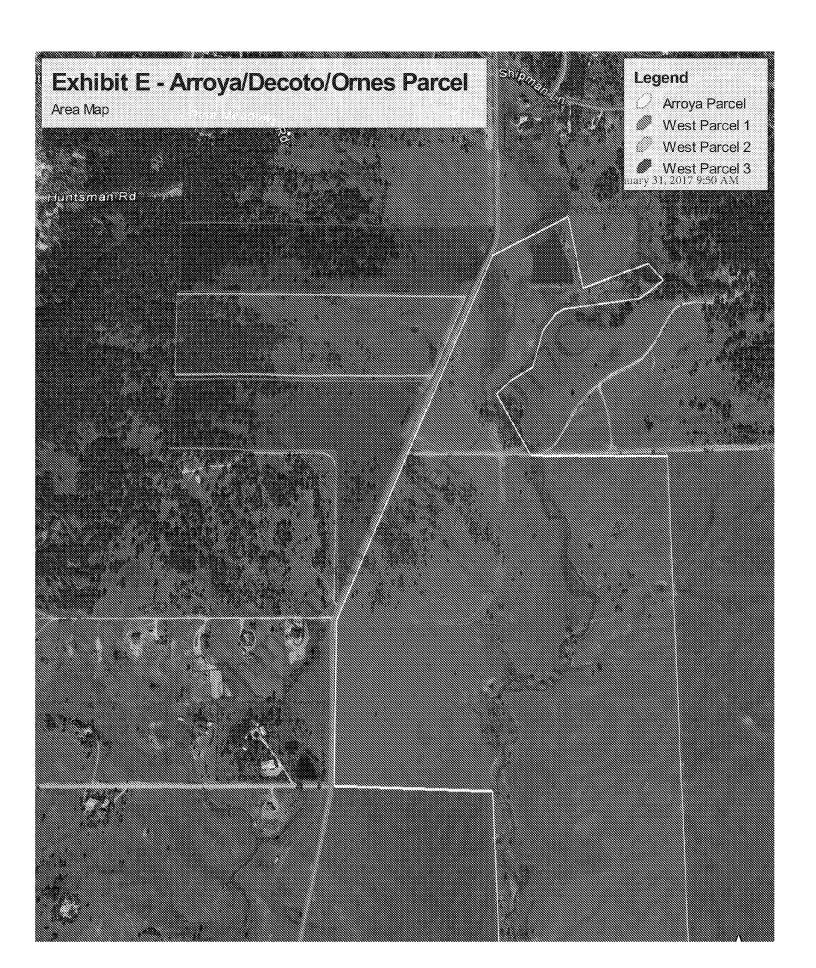
A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21, TOWNSHEP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASC COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: THE WEST LINE OF THE SOUTHEAST ONE-OUARTER (SE1/4) OF SECTION 21. TOWNSHIP-12 SOUTH, RANGE 65 WEST IS ASSUMED TO BEAR NOO'25'32'W, A DISTANCE OF 2038,53 FEET;

COMMENCING AT THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER (SE1/4); DENCE NOT22'32'W ALONG THE WEST UNE OF BAID SOUTHEAST ONE-QUARTER (SE1/4); A DISTANCE OF 1356.51 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREW DESCRIBED; DENCE NOT25'32'W CONTINUING ALONG SAID WEST UNE. A DISTANCE OF 656 30 FEET; THENCE NOT25'32'W CONTINUING ALONG SAID WEST UNE. A DISTANCE OF 656 30 FEET; THENCE NOT25'32'W CONTINUING ALONG SAID WEST UNE. A DISTANCE OF 656 30 FEET; THENCE NOT25'32'W CONTINUING ALONG SAID WEST UNE. A DISTANCE OF 656 30 FEET; THENCE NOT25'32'W CONTINUING ALONG SAID WEST UNE. A DISTANCE OF 656 30 FEET; THENCE NOT25'32'W CONTINUING ALONG SAID WEST UNE. A DISTANCE OF 656 30 FEET; THENCE NOT25'32'W CONTINUING ALONG SAID WEST UNE. A DISTANCE OF 656 30 FEET; THE EL PASC COUNTY CONTINUING ALONG SAID WEST DESCRIPTION OF THE RESOLUTION OF THE EL PASCE 136 OF THE RECORDED IN THE OF WEST DESCRIPTION OF THE RECORDED IN BOOK 2578 AT PAGE 136 OF THE RECORDED FT THE EL PASC COUNTY CLERK AND RECORDER;

THENCE ALONG SHID WESTERLY RIGHT-OF-WAY LINE THE FOLLOWING TWO (2) COUPSES: 1. SQU'S7'14'E, A DISTANCE OF 98.54 FEET; 2. S21'N1'NOW, A DISTANCE OF 891.81 FEET;

THENCE 388'40'31'M, A DISTANCE OF 2384.04 FEET TO THE POINT OF BECKNING.



2180925848/9/2018 3:54 PMPGS12\$68.00DF \$0.00Electronically Recorded Official Records El Paso County COChuck Broerman, Clerk and RecorderTD1000N

DISTRICT COURT, WATER DIVISION 2, CO Court Address: 501 North Elizabeth Street, Suite 116 Pueblo, CO 81003 Phone Number: (719) 404-8832	DATE FILED: August 9, 2018 3:38 PM CASE NUMBER: 2018CW3002
CONCERNING THE APPLICATION FOR WATER RIGHTS OF:	▲ COURT USE ONLY ▲
ARROYA INVESTMENTS, LLC	Case No.: 18CW3002 (17CW3002)
IN EL PASO COUNTY	
FINDINGS OF FACT, CONCLUSIONS OF LAW, DECREE	RULING OF REFEREE AND

THIS MATTER comes before the Water Referee on the Application filed by Arroya Investments, LLC, and having reviewed said Application and other pleadings on file, and being fully advised on this matter, the Water Referee makes the following findings and orders:

## GENERAL FINDINGS OF FACT

1. The applicant in this case is Arroya Investments, LLC, whose address is 1283 Kelly Johnson Blvd., Colorado Springs, CO 80920 ("Applicant"). Applicant is the owner of the land totaling approximately 72.5 acres (a portion of the larger 225.97-acre Arroya Parcel previously adjudicated in Case No. 17CW3002), on which the structures sought to be adjudicated herein are located, and are the owners of the place of use where the water will be put to beneficial use.

2. The Applicant filed this Application with the Water Court for Water Division 2 on January 9, 2018. The Application was referred to the Water Referee in Division 2 on or about January 18, 2018.

3. The time for filing statements of opposition to the Application expired on the last day of March 2018. No Statements of Opposition were timely filed.

4. On January 18, 2018, the Water Court, Division 2 ordered that publication occur in the *Daily Transcript* within El Paso County.

5. The Clerk of this Court has caused publication of the Application filed in this matter as provided by statute and the publication costs have been paid. On February 15, 2018, proof of publication in the *Daily Transcript* was filed with Water

Court Division 2. All notices of the Application have been given in the manner required by law.

6. Pursuant to C.R.S. §37-92-302(4), the office of the Division Engineer for Water Division 2 has filed its Consultation Report dated May 2, 2018, with the Court, and a Response to the Consultation Report was filed by the Applicant on June 26, 2018. Both the Consultation Report and Response have been considered by the Water Referee in the entry of this Ruling.

7. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties whether they have appeared or not. The land and water rights involved in this case are not within a designated groundwater basin.

8. The Applicant, consistent with the decree entered in Case No. 17CW3002, seeks to utilize ground water rights granted therein for the construction of Timber Ridge Wells Nos. 1 through 29 to the Dawson aquifer, and additional or replacement wells associated therewith, for withdrawal of Applicant's full entitlements of supply under the plan for augmentation sought herein.

9. The land overlying the groundwater subject to the adjudication in this case is owned by the Applicant and was previously quantified in Case No. 17CW3002, which concerned a 225.97 acre parcel of land located in El Paso County, Colorado ("Arroya Parcel"). The land relevant to this decree consists of an approximately 72.5 acre portion of the larger Arroya Parcel as described in Case No. 17CW3002, located in a portion of the SE1/4 of Section 21 and a portion of the SW1/4 of Section 22, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., El Paso County, Colorado, as more particularly described on the attached **Exhibit A**, and depicted on the attached **Exhibit B** map ("Subject Property"). Applicant intends to subdivide the property into up to twenty-nine (29) lots of approximately 2.5 acres each. All groundwater adjudicated herein shall be withdrawn from the overlying land.

10. <u>Timber Ridge Wells Nos. 1 through 29</u>: Each of the Timber Ridge Wells Nos. 1 through 29 are to be constructed to the not-nontributary Dawson aquifer pursuant to the Plan for Augmentation decreed herein to provide domestic water supplies to a single family residence to be located upon the subdivided Subject Property. Upon entry of this decree and submittal by the Applicant of a complete well permit application and filing fee, the State Engineer shall issue a revised permit for Timber Ridge Wells Nos. 1 through 29 pursuant to C.R.S. §37-90-137(4), consistent with and references the Plan for Augmentation decreed herein.

## PLAN FOR AUGMENTATION

11. The structures to be augmented are Timber Ridge Wells Nos. 1 through 29 in the not-nontributary Dawson aquifer underlying the Applicant's Property, along with any additional or replacement wells associated therewith.

12. Pursuant to C.R.S. §37-90-137(9)(c.5), the augmentation obligation for Timber Ridge Wells Nos. 1 through 29, and any additional or replacement wells constructed to the Dawson aquifer requires the replacement of actual stream depletions to the extent necessary to prevent any injurious effect. The water rights to be used for augmentation during pumping are the septic return flows of the not-nontributary Timber Ridge Wells Nos. 1 through 29, to be pumped as set forth in this plan for augmentation. The water rights to be used for augmentation after pumping are a reserved portion of Applicant's nontributary water rights in the Laramie-Fox Hills aquifers. Applicant shall provide for the augmentation of stream depletions caused by pumping the Timber Ridge Wells Nos. 1 through 29 as approved herein. Water use criteria as follows:

A. <u>Use</u>: The Timber Ridge Wells Nos. 1 through 29 may each pump up to 0.32 acre feet of water per year, for a maximum total of 9.32 acre feet being withdrawn from the Dawson aquifer annually. Households will utilize up to 0.26 acre feet of water per year per residence, with the additional pumping available for landscape irrigation, the watering of horses or equivalent livestock, and other beneficial uses decreed in 17CW3002 at each residence. The foregoing figures assume the use of 29 septic systems, with resulting return flows from each. Should Applicant subdivide Applicant's property into fewer than 29 lots, both depletions and return flows for the replacement of the same will be correspondingly reduced, though pumping for uses other than household use may be increased provided at all times septic return flows shall replace the maximum depletions resulting from pumping.

B. <u>Depletions</u>: Applicant has determined that maximum stream depletions over the 300-year pumping period will amount to approximately fifty-six percent (56%) of pumping. Maximum annual depletions for total residential pumping from all wells is therefore 5.22 acre feet in year 300. Should Applicant's pumping be less than the 0.32 acre feet per lot described herein, or should fewer lots be developed, resulting depletions and required replacements will be correspondingly reduced.

C. <u>Augmentation of Depletions During Pumping Life of Wells</u>: Depletions during pumping will be effectively replaced by residential return flows from non-evaporative septic systems. The annual consumptive use for non-evaporative septic systems is 10% per year per residence. At a conservatively estimated household use rate of 0.18 acre feet per residence per year (rather than the full 0.26 acre feet annually), a total of 5.22 acre feet is replaced to the stream system per year, utilizing non-evaporative septic systems, assuming all 29 wells are utilized. With maximum depletions from the pumping of 29 wells at 0.18 acre feet, and anticipated replacement of 5.22 acre feet annually, during pumping, stream depletions will be adequately augmented.

D. <u>Augmentation of Post Pumping Depletions</u>: This plan for augmentation shall have a pumping period of a minimum of 300 years. For the replacement of any injurious post-pumping depletions which may be associated with the use of the Timber Ridge Wells Nos. 1 through 29, Applicant will reserve up to 2,796

acre feet of water from the nontributary Laramie Fox Hills aquifer, less actual stream depletions replaced during the plan pumping period as necessary to replace any injurious post pumping depletions. Applicant also reserves the right to substitute other legally available augmentation sources for such post pumping depletions upon further approval of the Court under its retained jurisdiction. Even though this reservation is made, under the Court's retained jurisdiction, Applicant reserves the right in the future to prove that post pumping depletions will be noninjurious. The reserved nontributary Laramie-Fox Hills groundwater will be used to replace any injurious post-pumping depletions. Upon entry of a decree in this case, the Applicant will be entitled to apply for and receive a new well permit for the Timber Ridge Wells Nos. 1 through 29 for the uses in accordance with this Application and otherwise in compliance with C.R.S. §37-90-137.

13. This decree, upon recording, shall constitute a covenant running with Applicant's Property, benefitting and burdening said land, and requiring construction of well(s) to the nontributary Laramie-Fox Hills aquifer and pumping of water to replace any injurious post-pumping depletions under this decree. Subject to the requirements of this decree, in order to determine the amount and timing of post-pumping replacement obligations, if any, under this augmentation plan, Applicant or its successors shall use information commonly used by the Colorado Division of Water Resources for augmentation plans of this type at the time. Pursuant to this covenant, the water from the nontributary Laramie-Fox Hills aquifer reserved herein may not be severed in ownership from the overlying subject property. This covenant shall be for the benefit of, and enforceable by, third parties owning vested water rights who would be materially injured by the failure to provide for the replacement of post-pumping depletions under the decree, and shall be specifically enforceable by such third parties against the owner of the Applicant's Property.

14. Applicant or its successors shall be required to initiate pumping from the Laramie-Fox Hills aquifer for the replacement of post-pumping depletions when either: (i) the absolute total amount of water available from the Dawson aquifer allowed to be withdrawn under the plan for augmentation decreed herein has been pumped; (ii) the Applicant or its successors in interest have acknowledged in writing that all withdrawals for beneficial use through the Timber Ridge Wells Nos. 1 through 29 have permanently ceased, (iii) a period of 10 consecutive years where either no withdrawals of groundwater has occurred, or (iv) accounting shows that return flows from the use of the water being withdrawn is insufficient to replace depletions caused by the withdrawals that already occurred.

15. Accounting and responsibility for post-pumping depletions in the amount set forth herein shall continue for the shortest of the following periods: (i) the period provided by statute; (ii) the period specified by any subsequent change in statute; (iii) the period required by the Court under its retained jurisdiction; (iv) the period determined by the State Engineer; or (v) the period as established by Colorado Supreme Court final decisions. Should Applicant's obligation hereunder to account for and replace such post-pumping stream depletions be abrogated for any reason, then the Laramie-Fox Hills aquifer groundwater reserved for such a purpose shall be free from the reservation herein and such groundwater may be used or conveyed by its owner without restriction for any post-pumping depletions.

16. The term of this augmentation plan is for a minimum of 300 years, however, the length of the plan for a particular well or wells may be extended beyond such time provided the total plan pumping allocated to such well or wells is not exceeded. Should the actual operation of this augmentation plan depart from the planned diversions described herein such that annual diversions are increased or the duration of the plan is extended, the Applicant must prepare and submit a revised model of stream depletions caused by the actual pumping schedule. This analysis must utilize depletion modeling acceptable to the State Engineer, and to this Court, and must represent the water use under the plan for the entire term of the plan to date. The analysis must show that return flows have equaled or exceeded actual stream depletions throughout the pumping period and that reserved nontributary water remains sufficient to replace post-pumping depletions.

17. Consideration has been given to the depletions from Applicant's use and proposed uses of water, in quantity, time and location, together with the amount and timing of augmentation water which will be provided by the Applicant, and the existence, if any, injury to any owner of or person entitled to use water under a vested water right.

18. It is determined that the timing, quantity and location of replacement water under the protective terms in this decree are sufficient to protect the vested rights of other water users and eliminate material injury thereto. The replacement water shall be of a quantity and quality so as to meet the requirements for which the water of senior appropriators has normally been used, and provided of such quality, such replacement water shall be accepted by the senior appropriators for substitution for water derived by the exercise of the Timber Ridge Wells Nos. 1 through 29. As a result of the operation of this plan for augmentation, the depletions from the Timber Ridge Wells Nos. 1 through 29 and any additional or replacement wells associated therewith will not result in material injury to the vested water rights of others.

## CONCLUSIONS OF LAW

19. The Applicant's request for adjudication of the plan for augmentation decreed herein is contemplated and authorized by law, and this Court and the Water Referee have exclusive jurisdiction over these proceedings. C.R.S. §§37-92-302(1)(a), 37-92-203, and 37-92-305.

20. Subject to the terms of the 17CW3002 decree, the Applicant is entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the Applicant's Property, and the right to use that water to the exclusion of all others subject to the terms of said 17CW3002 decree.

21. The Applicant's request for approval of a plan for augmentation is contemplated and authorized by law. If administered in accordance with this decree, this plan for augmentation will permit the uninterrupted diversions from the Timber Ridge Wells Nos. 1 through 29 without adversely affecting any other vested water rights in the Arkansas River or its tributaries and when curtailment would otherwise be required to meet a valid senior call for water. C.R.S. §§37-92-305(3),(5), and (8).

## IT IS THEREFORE ORDERED, ADJUDGED AND DECREED AS FOLLOWS:

22. All of the foregoing Findings of Fact and Conclusions of Law are incorporated herein by reference, and are considered to be a part of this decretal portion as though set forth in full.

23. The Application for Adjudication of Denver Basin Groundwater and for Approval of Plan for Augmentation proposed by the Applicant is approved, subject to the terms of this decree.

24. The Applicant has furnished acceptable proof as to all claims and, therefore, the Application for Adjudication of Groundwater and Plan for Augmentation, as requested by the Applicant, is granted and approved in accordance with the terms and conditions of this decree. Approval of this Application will not result in any material injury to senior vested water rights.

25. The Applicant shall comply with C.R.S. §37-90-137(9)(b), requiring the relinquishment of the right to consume two percent (2%) of the amount of the nontributary groundwater withdrawn. Ninety-eight percent (98%) of the nontributary groundwater withdrawn may therefore be consumed. No plan for augmentation shall be required to provide for such relinquishment.

26. The State Engineer, the Division Engineer, and/or the Water Commissioner shall not curtail the diversion and use of water covered by the Timber Ridge Wells Nos. 1 through 29 so long as the return flows from the annual diversions associated with the Timber Ridge Wells Nos. 1 through 29 accrue to the stream system pursuant to the conditions contained herein. To the extent that Applicant or one of its successors or assigns is ever unable to provide the replacement water required, then the Timber Ridge Wells Nos. 1 through 29 shall not be entitled to operate under the protection of this plan, and shall be subject to administration and curtailment in accordance with the laws, rules, and regulation of the State of Colorado. Pursuant to C.R.S. §37-92-305(8), the State Engineer shall curtail all out-of-priority diversions which are not so replaced as to prevent injury to vested water rights. In order for this plan for augmentation to operate, return flows from the one or both of the septic systems discussed herein, as appropriate, shall at all times during pumping be in an amount sufficient to replace the amount of stream depletions.

27. Pursuant to C.R.S. §37-92-304(6), the Court shall retain continuing jurisdiction over the plan for augmentation decreed herein for reconsideration of the question of whether the provisions of this decree are necessary and/or sufficient to prevent injury to vested water rights of others, as pertains to the use of Denver Basin groundwater supplies adjudicated herein, including for augmentation purposes.

Except as otherwise specifically provided in Paragraph 28, above, 28. pursuant to the provisions of C.R.S. §37-92-304(6), this plan for augmentation decreed herein shall be subject to the reconsideration of this Court on the question of material injury to vested water rights of others, for a period of five (5) years, except as otherwise provided herein. Any person, within such period, may petition the Court to invoke its retained jurisdiction. Any person seeking to invoke the Court's retained jurisdiction shall file a verified petition with the Court setting forth with particularity the factual basis for requesting that the Court reconsider material injury to petitioner's vested water rights associated with the operation of this decree, together with proposed decretal language to effect the petition. The party filing the petition shall have the burden of proof of going forward to establish a prima facie case based on the facts alleged in the petition. If the Court finds those facts are established, Applicant shall thereupon have the burden of proof to show: (i) that the petitioner is not materially injured, or (ii) that any modification sought by the petitioner is not required to avoid material injury to the petitioner, or (iii) that any term or condition proposed by Applicant in response to the petition does avoid material injury to the petitioner. The Division of Water Resources as a petitioner shall be entitled to assert material injury to the vested water rights of others. If no such petition is filed within such period and the retained jurisdiction period is not extended by the Court in accordance with the revisions of the statute, this matter shall become final under its own terms.

29. Pursuant to C.R.S. §37-92-502(5)(a), the Applicant shall install and maintain such water measurement devices and recording devices as are deemed essential by the State Engineer or Division Engineers, and the same shall be installed and operated in accordance with instructions from said entities. Applicant is to install and maintain a totalizing flow meters on all Timber Ridge Wells or any additional or replacement wells associated therewith. Applicant is also to maintain records and provide reports to the State Engineer or Division Engineers as instructed by said entities, on at least an annual basis.

30. The vested water rights, water right structures, and plan for augmentation decreed herein shall be subject to all applicable administrative rules and regulations, as currently in place or as may in the future be promulgated, of the offices of Colorado State and Division Engineers for administration of such water rights, to the extent such rules and regulations are uniformly applicable to other similarly situated water rights and water users.

31. This Ruling of Referee, when entered as a decree of the Water Court, shall be recorded in the real property records of El Paso County, Colorado. Copies of this ruling shall be mailed as provided by statute.

DATED THIS 18th day of July, 2018.

BY THE REFEREE:



Marall R. Ditemarica

Mardell R. DiDomenico, Water Referee Water Division 2

## DECREE

THE COURT FINDS THAT NO PROTEST WAS MADE IN THIS MATTER, THEREFOR THE FORGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated: August 9<sup>th</sup>, 2018.



BY THE COURT:

EARRY C. SCHWARTZ, WATER JUDGE WATER DIVISION 2

# EXHIBIT A

#### **LEGAL DESCRIPTION – ARROYA PARCEL**

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE SOUTHWEST ONE-QUARTER OF SECTION 22, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27; THENCE S88°38'56"W ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1047.88 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S88°38'56"W CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 283.03 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27 SAID POINT ALSO BEING A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE ALONG THE EASTERLY AND NORTHERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N00°37'14"W SAID LINE ALSO BEING THE WEST LINE OF THE SOUTHWEST ONE-QUARTER (SW1/4) OF SAID SECTION 22, A DISTANCE OF 30.00 FEET; 2. S89°40'23"W, A DISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF SAID COUNTY RECORDS;

THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1798.07 FEET; THENCE N59°58'50"E, A DISTANCE OF 694.83 FEET; THENCE S14°30'58"E, A DISTANCE OF 567.09 FEET; THENCE N69°36'18"E, A DISTANCE OF 603.87 FEET; THENCE S30°23'46"E, A DISTANCE OF 264.58 FEET; THENCE S61°52'38"W, A DISTANCE OF 227.40 FEET;

THENCE S79°15'47"W, A DISTANCE OF 276.17 FEET; THENCE S89°39'18"W, A DISTANCE OF 356.07 FEET; THENCE S40°09'47"W, A DISTANCE OF 310.61 FEET; THENCE S09°56'46"W, A DISTANCE OF 270.03 FEET; THENCE S35°00'25"W, A DISTANCE OF 167.38 FEET; THENCE S57°24'01"W, A DISTANCE OF 235.36 FEET; THENCE S27°23'34"E, A DISTANCE OF 611.29 FEET TO THE POINT OF BEGINNING; SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 35.08 ACRES OF LAND, MORE OR LESS.

Along With:

A PARCEL OF LAND BEING THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (SW1/4 NW1/4) OF SECTION 27, THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SECTION 27, A PORTION OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER OF SECTION 28 AND A PORTION OF THE NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4) OF SECTION 28, ALL IN TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S00°54'30"E ALONG THE EAST LINE OF THE WEST ONE-HALF (W1/2) OF SAID SECTION 27, A DISTANCE OF 3925.63 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER NW1/4 SW1/4) OF SAID SECTION 27;

THENCE S87°35'00"W ALONG THE SOUTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1332.78 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4);

THENCE N00°53'18"W ALONG THE WEST LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1316.78 FEET TO THE NORTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4);

THENCE S89°08'28"W ALONG THE SOUTH LINE OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4) OF SECTION 28, A DISTANCE OF 1326.68 FEET TO THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4);

THENCE N00°30'49"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4), A DISTANCE OF 1270.77 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN

BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER; THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1450.84 FEET TO THE POINT OF INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY

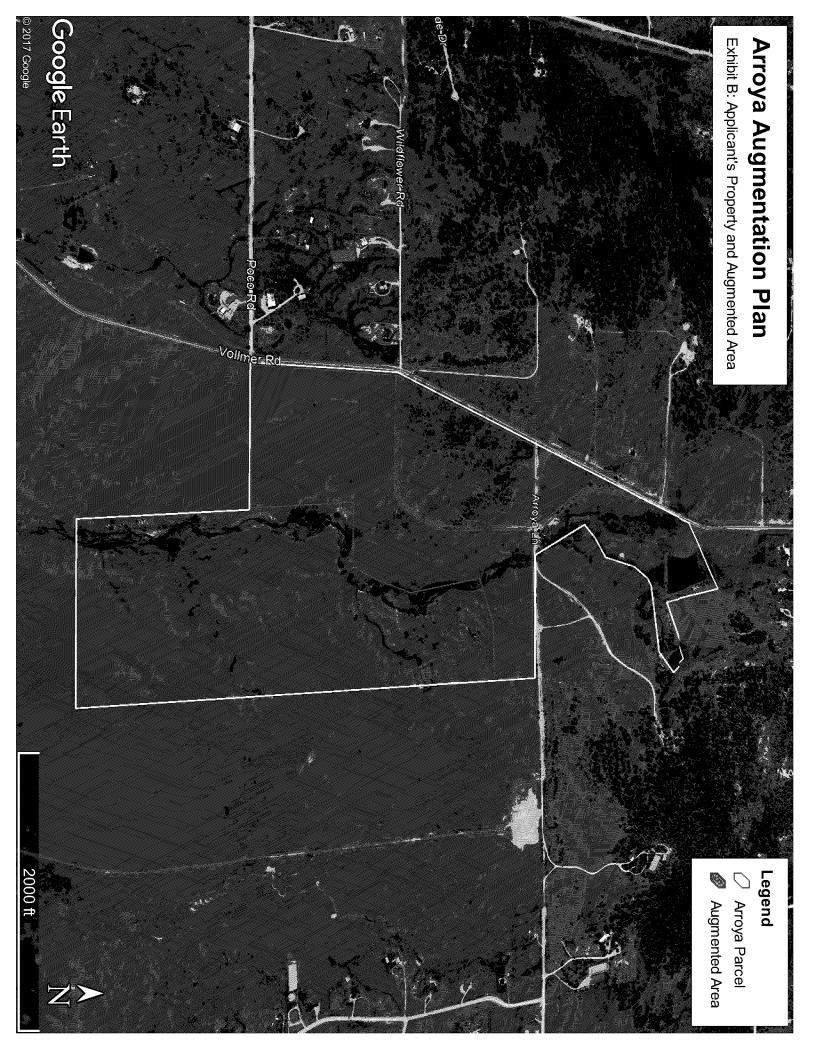
RECORDS;

THENCE ALONG THE SOUTHERLY AND EASTERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N89°40'23"E, A DISTANCE OF 761.52 FEET TO A POINT ON THE EAST LINE OF SAID NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4); 2. N00°52'58"W ALONG SAID EAST LINE, A DISTANCE OF 30.00 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27;

THENCE N88°38'56"E ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1330.91 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 190.89 ACRES OF LAND, MORE OR LESS.



DISTRICT COURT, WATER DIVISION 2, COLORADO Court Address: 501 North Elizabeth Street, Suite 116 Pueblo, CO 81003 Phone Number: (719) 404-8832	DATE FILED: March 4, 2022 10:52 AM CASE NUMBER: 2020CW3059	
CONCERNING THE APPLICATION FOR WATER RIGHTS OF: STERLING RANCH METROPOLITAN DISTRICT NO. 1	▲ COURT USE ONLY ▲ Case No.: 20CW3059	
IN EL PASO COUNTY		
FINDINGS OF FACT, CONCLUSIONS OF LAW, AMENDED RULING OF REFEREE AND DECREE: ADJUDICATING DENVER BASIN GROUNDWATER, WATER STORAGE RIGHTS AND APPROVAL OF PLAN FOR AUGMENTATION		

THIS MATTER comes before the Court on the Application filed by Sterling Ranch Metropolitan District No. 1, and having reviewed said Application and other pleadings on file, and being fully advised on this matter, the Court makes the following findings and orders:

## GENERAL FINDINGS OF FACT

1. The applicant in this case is Sterling Ranch Metropolitan District No. 1, whose address is 20 Boulder Crescent, #200, Colorado Springs, Colorado 80903 ("Applicant" or "District"). The Applicant seeks the adjudication of surface water rights, groundwater rights, and approval of a plan for augmentation.

2. The land upon which the surface water rights adjudicated herein are located are within the District, and the District is the owner of, or controls, all Denver Basin groundwater described herein. All land is located within the District, where the water will be put to beneficial use.

3. The Applicant filed this Application with the Water Court for Water Division 2 on October 12, 2020, and filed an Amended Application on October 13, 2020. The Application was referred to the Water Referee Division 2 on October 12, 2020.

4. The time for filing statements of opposition to the Application expired on the last day of December 2020. A Statement of Opposition was timely filed by The City of Colorado Springs, acting through its enterprise, Colorado Springs Utilities, on December 28, 2020, and a Statement of Opposition was timely filed by the State Engineer and the

Division Engineer for Water Division No. 2 on December 30, 2020.

5. On October 21, 2020, Water Court, Division 2, ordered that publication occur in El Paso County. The Clerk of this Court has caused publication of the Application filed in this matter as provided by statute and the publication costs have been paid. On November 19, 2020, proof of publication in *The Colorado Springs Gazette* was filed with the Division 2 Water Court. All notices of the Application have been given in the manner required by law.

6. On January 19, 2022, a stipulation between the Applicant and The City of Colorado Springs, acting through its enterprise, Colorado Springs Utilities was filed with the Division 2 Water Court. By Order dated January 24, 2022, the Division 2 Water Court approved such stipulation.

7. On November 5, 2021, a stipulation between the Applicant and the State Engineer and the Division Engineer for Water Division No. 2 was filed with the Division 2 Water Court. By Order dated November 5, 2021, the Division 2 Water Court approved such stipulation.

8. Pursuant to C.R.S. §37-92-302(2), the Office of the State Engineer has filed Determination of Facts for each aquifer with this Court on January 29, 2021.

9. As the State and Division Engineers timely filed a statement of opposition in this matter and obtained party status, no Consultation Report pursuant to C.R.S. §37-92-302(4) is necessary or required.

10. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties whether they have appeared or not. The land and water rights involved in this case are not within a designated groundwater basin.

# SURFACE WATER STORAGE RIGHTS

11. The Applicant seeks the adjudication of absolute surface water storage rights and the following findings are made with respect those rights:

A. <u>Name of Structure</u>: SRMD Pond No. 1. The terms of this decree concerning SRMD Pond No. 1 abrogate and replace all uses, terms, and conditions of prior decree of this Court in Case No. W-1309 as concerns the like structure decreed therein as Dines Reservoir No. 1, with the exception of claimed appropriation date for stockwater uses.

i. <u>Legal Description of Structure</u>: SRMD Pond No. 1 is located in the NE¼ SW¼ and the NW¼ SE¼ of Section 33, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M. with the center of the embankment at a point approximately 1,450 feet from the south section line of said Section 33, and approximately 2,590 feet from the east section line of said Section 33, in El Paso County, Colorado.

ii. <u>Source</u>: The source for filling and re-filling of this existing onchannel structure is Sand Creek, a tributary of Fountain Creek, tributary to the Arkansas River.

iii. <u>Date and Initiation of Appropriation</u>: This water right shall be administered with a priority date of October 13, 2020, coincident with the filing of this Application. A stock tank in this location was decreed by the Division 2 Water Court in 1973, Case No. W-1309 as Dines Reservoir No. 1. However, Applicant's uses are far more expansive than those considered in W-1309, and Applicant therefore does not claim the earlier September 24, 1962 appropriation date decreed therein, except as to stockwater uses for purposes of demonstrating in-priority storage of water in support of Applicant's absolute claim for such uses.

iv. <u>Date Water Applied to Beneficial Use</u>: SRMD Pond No. 1 has existed since at least September 24, 1962, per the decree in W-1309.

v. <u>Amount Claimed</u>: 12.25 acre feet, with the right to freshening flows for maintenance of recreational, wildlife, fish propagation and fire protection purposes when in priority or when augmented by the plan approved herein. Since the initial construction of SRMD Pond No. 1 in 1962, there have been a number of instances where the Arkansas River call (and Sand Creek and Fountain Creek, as tributaries thereto), has been junior to the priority date of September 24, 1962 decreed to stockwater uses for this facility in W-1309, including in 1999. Each of these circumstances of in-priority storage occurred for decreed stockwatering purposes, supporting the absolute water rights decreed herein in the amount of 12.25 acre feet for such stockwater uses. All other municipal uses, including domestic, commercial, industrial, recreation, fish propagation, wetlands, wildlife habitat, and fire protection purposes decreed herein are conditional, in the amount of 12.25 acre feet.

vi. <u>Uses</u>: All municipal uses, including domestic, commercial, industrial, recreation, fish propagation, stockwater, wetlands, wildlife habitat, and fire protection purposes.

vii. <u>Pond Specifications</u>: SRMD Pond No. 1 has a maximum surface area at the high-water line of approximately 2.51 acres. The maximum height of the dam is approximately 10 feet and the length of the dam is approximately 510 feet.

viii. <u>Total Capacity of Pond</u>: Approximately 12.25 acre feet, all of which is dead storage.

ix. <u>Place of Use</u>: All uses of water associated with SRMD Pond No. 1 shall be within the boundaries of the District.

B. <u>Name of Structure</u>: SRMD Pond No. 2. The terms of this decree

concerning SRMD Pond No. 2 abrogate and replace all the uses, terms, and conditions of prior decree of this Court in Case No. W-1309 as concerns the like structure decreed therein as Dines Reservoir No. 3, with the exception of appropriation date for stockwater uses.

i. <u>Legal Description of Structure</u>: SRMD Pond No. 2 is located in the SE¼ SE¼ of Section 28, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M. at a point approximately 115 feet from the south section line of said Section 28, and approximately 156 feet from the east section line of said Section 28, in El Paso County, Colorado.

ii. <u>Source</u>: The source for filling and re-filling of this existing onchannel structure is Sand Creek, a tributary of Fountain Creek, tributary to the Arkansas River.

iii. <u>Date and Initiation of Appropriation</u>: This water right shall be administered with a priority date of October 13, 2020, coincident with the filing of this Application. A stock tank in this location was decreed by the Division 2 Water Court in 1973, Case No. W-1309 as Dines Reservoir No. 3. However, Applicant's uses are far more expansive than those considered in W-1309, and Applicant therefore does not claim the earlier September 24, 1962 appropriation date decreed therein, except as to stockwater uses for purposes of demonstrating in-priority storage of water in support of Applicant's absolute claim for such uses.

iv. <u>Date Water Applied to Beneficial Use</u>: The pond has existed since at least October 4, 1962, per the decree in W-1309.

v. <u>Amount Claimed</u>: 4.29 acre feet, with the right freshening flows for maintenance of recreational, wildlife, fish propagation and fire protection purposes when in priority or when augmented by the plan approved herein. Since the initial construction of SRMD Pond No. 1 in 1962, there have been a number of instances where the Arkansas River call (and Sand Creek and Fountain Creek, as tributaries thereto), has been junior to the priority date of September 24, 1962 decreed to stockwater uses for this facility in W-1309, including in 1999. Each of these circumstances in-priority storage occurred for decreed stockwatering purposes, supporting the absolute water rights decreed herein in the amount of 4.29 acre feet for such stockwater uses. All other municipal uses, including domestic, commercial, industrial, recreation, fish propagation, wetlands, wildlife habitat, and fire protection purposes decreed herein are conditional, in the amount of 4.29 acre feet.

vi. <u>Uses</u>: All municipal uses, domestic, commercial, industrial, recreation, fish propagation, stockwater, wetlands, wildlife habitat, and fire protection purposes.

vii. <u>Pond Specifications</u>: SRMD Pond No. 2 has a maximum surface area at the high-water line of approximately 1.30 acres. The maximum height of

the dam is approximately 10 feet and the length of the dam is approximately 155 feet.

viii. <u>Total Capacity of Pond</u>: Approximately 4.29 acre feet, all of which is dead storage.

ix. <u>Place of Use</u>: All uses of water associated with SRMD Pond No. 2 will be within the boundaries of the District.

The Court finds the absolute surface water storage rights decreed herein 12. have been fully developed and the Applicant has utilized the water rights in-priority for stock-watering beneficial uses, as requested in the application. The Court further finds that the Applicant has completed all of the elements for the appropriation of the absolute water right, as to such stockwater uses, including: (a) formation of the intent to appropriate water; (b) performance of overt acts coincidental with this intent to manifest the intention to appropriate water to beneficial use and to demonstrate the taking of a substantial step toward applying water to beneficial use; (c) these acts were of such a nature as to provide interested third parties with notice of the nature and extent of the proposed diversion and the consequent demand upon the river system water to beneficial use; and as to the absolute water rights for stockwater purposes, (d) unappropriated waters have been diverted and have been applied to the beneficial use set forth herein. Applicant's documented in-priority fill and beneficial use of water stored within SRMD Pond Nos. 1 and 2 for stock-watering purposes is sufficient for creation of an absolute water right. The appropriation dates of the conditional water rights decreed herein establishes such water rights' relative priority among all other water rights or conditional water rights awarded on applications filed in Water Division 2 in the original years of filing for such conditional water rights, but such conditional water right shall be junior to all water rights and conditional water rights awarded on applications filed in previous calendar years.

#### **GROUNDWATER RIGHTS**

13. The Applicant requested quantification and adjudication of underground Denver Basin water rights, including as associated with an existing well with Permit No. 26947-F, as constructed to the Denver aquifer, and for an undetermined quantity of additional or replacement wells to one or more of the Denver Basin aquifers, as quantified herein, for withdrawal of Applicant's full entitlement of water supplies underlying the SR Quarry Parcel, as more particularly described on the attached **Exhibit A** and depicted on the **Exhibit B1** map, pursuant to the plan for augmentation decreed herein. Applicant also sought, and this Court decrees that, to the extent wells or well fields constructed on nearby property owned or controlled by Applicant and its affiliates have or are legally interpreted to have contiguity, Applicant shall have the right to withdraw all groundwater entitlements quantified herein from such contiguous wells and be considered a well field. The following findings are made with respect to such groundwater rights:

14. The land overlying the groundwater subject to the adjudication in this case is owned by the Applicant and consists of approximately 97.54 acres located in the S½ SW¼ and the SW¼ SE¼ in Township 12 South, Range 65 West of the 6th P.M., El Paso

County, Colorado, described as the SR Quarry Parcel, and depicted on the attached **Exhibit B1** map ("SR Quarry Parcel"). All groundwater adjudicated herein shall be withdrawn from the overlying land, or from a contiguous parcel owned or controlled by the Applicant and its affiliates.

15. In accordance with the notice requirements of C.R.S. §37-92-302, lienholders of the SR Quarry Parcel were sent a Letter of Notice dated November 30, 2020. A Certificate of Notice was filed with the District Court, Water Division 2, on December 22, 2020.

16. <u>Existing and Future Wells.</u> All wells will be located on the SR Quarry Parcel, and/or on contiguous parcels thereto. There is an existing well on the property permitted and constructed under Well Permit No. 26947-F constructed to the Denver aquifer. Applicant is awarded the vested right to use the existing well and future wells, along with any necessary additional or replacement wells associated with such structures, for the extraction and use of groundwater from the not-nontributary Denver and Arapahoe aquifers pursuant to the Plan for Augmentation decreed herein. Upon entry of this decree and submittal by the Applicant of a complete well permit application and filing fee, the State Engineer shall issue a revised permit for the existing well, and new permits for any future well pursuant to C.R.S. §37-90-137(4), consistent with and referencing the Plan for Augmentation decreed herein.

17. Of the statutorily described Denver Basin aquifers, the Dawson, Denver, Arapahoe, and Laramie-Fox Hills aquifers all exist beneath the SR Quarry Parcel. The Dawson, Denver, and Arapahoe aquifers underlying the SR Quarry Parcel contain not-nontributary water, while the water of the Laramie-Fox Hills aquifer underlying the SR Quarry Parcel is nontributary. The quantity of water in the Denver Basin aquifers exclusive of artificial recharge underlying the SR Quarry Parcel is as follows:

AQUIFER	NET SAND (ft)	Annual Average Withdrawal 100 Years (Acre Feet)	Annual Average Withdrawal 300 Years (Acre Feet)	Total Withdrawal (Acre Feet)
Dawson (NNT)	50	9.75	3.25	975
Denver (NNT)	300	45.56 <sup>1,2</sup>	15.19 <sup>2</sup>	4,556 <sup>2</sup>
Arapahoe (NNT)	260	43.11	14.37	4,311
Laramie-Fox Hills (NT)	190	27.8	9.27	2,780

<sup>&</sup>lt;sup>1</sup> Consistent with the State Engineer's Determination of Facts, this entire amount requires the existing well with Permit No. 26947-F to be re-permitted upon entry of this decree, as anticipated. If the well is not re-permitted, the average annual amount shall be reduced to 0 acre-feet.

<sup>&</sup>lt;sup>2</sup> Applicant's consultants have estimated the maximum uses of the well with existing Permit No. 26947-F since it was first placed to beneficial use in 1989 as 13.1 acre feet annually, though it is highly unlikely that such maximum pumping actually occurred in each of the past 32 years. Nonetheless, Applicant has conservatively estimated that a total of 419 acre feet has been pumped thereby, and therefore the quantity of water claimed in the Denver aquifer in this decree has been reduced by such amounts.

the 18. Pursuant to C.R.S. §37-90-137(9)(c.5)(I)(B), augmentation requirements for wells in the Dawson aquifer underlying the SR Quarry Parcel requires the replacement to the affected stream systems of actual stream depletions on an annual Pursuant to C.R.S. §37-90-137(9)(c.5)(I)(C), the water of the Denver and basis. Arapahoe aquifers underlying the SR Quarry Parcel, which are located greater than 1 mile from any point of contact between a natural stream, requires replacement to the affected stream system of four percent (4%) of the amount of the water withdrawn from those aguifers on an annual basis. The Applicant shall not be entitled to construct a well or use water from the not-nontributary Dawson, Denver, or Arapahoe aquifers except pursuant to an approved augmentation plan in accordance with C.R.S. §37-90-137(9)(c.5), including as decreed herein as concerns the Denver and Arapahoe aquifers.

19. Subject to the augmentation requirements described in Paragraph 18 and the other requirements and limitations in this decree, Applicant shall be entitled to withdraw all legally available groundwater in the Denver Basin aquifers underlying the SR Quarry Parcel. Said amounts can be withdrawn over the 100-year life for the aquifers as set forth in C.R.S. §37-90-137(4), or withdrawn over a longer period of time based upon local governmental regulations or Applicant's water needs provided withdrawals during such longer period are in compliance with the augmentation requirements of this decree. This decree is based upon a pumping period of 300-years as required by El Paso County, Colorado Land Development Code §8.4.7(C)(1). The average annual amounts of groundwater available for withdrawal from the underlying Denver Basin aquifers, based upon a 300-year aquifer life, are determined and set forth above, based upon the January 29, 2021 Office of the State Engineer Determination of Facts described in Paragraph 8.

20. Applicant shall be entitled to withdraw an amount of groundwater in excess of the average annual amount decreed herein from the Denver Basin aquifers underlying the SR Quarry Parcel for a 300-year aquifer life, so long as the sum of the total withdrawals from wells in each of the aquifers does not exceed the product of the number of years since the date of entry of the decree herein, and the average annual volume of water which Applicant is entitled to withdraw from each of the aquifers underlying the SR Quarry Parcel, subject to the requirement that such banking and excess withdrawals do not violate the terms and conditions of the plan for augmentation decreed herein and any other plan for augmentation decreed by the Court that authorizes withdrawal of the Denver Basin groundwater adjudicated and decreed herein.

21. Subject to the terms and conditions of the plan for augmentation decreed herein and final approval by the State Engineer's Office pursuant to the issuance of well permits in accordance with C.R.S. §§37-90-137(4) or 37-90-137(10), the Applicant shall have the right to use the groundwater for beneficial municipal uses including, without limitation, domestic, commercial, industrial, irrigation of any irrigable acreage within the District boundaries or District service area, stock water, recreation, fish and wildlife propagation, fire protection, central water supply for such uses and also for exchange, aquifer recharge, replacement, and augmentation purposes. The amount of groundwater decreed for such uses is reasonable as such uses are to be made for the long-term use

and enjoyment of those served by Applicant and is to establish and provide for adequate water reserves. The nontributary groundwater in the Laramie-Fox Hills aquifer underlying the SR Quarry Parcel may be used, reused, and successively used to extinction, both on and off the SR Quarry Parcel subject, however, to the requirement under C.R.S. §37-90-137(9)(b) that no more than 98% of the amount withdrawn annually shall be consumed. Applicant may use such water by immediate application or by storage and subsequent application to the beneficial uses and purposes stated herein. Provided, however, as set forth above, Applicant shall only be entitled to construct a well or use water from the not-nontributary Dawson, Denver, and Arapahoe aquifers pursuant to a decreed augmentation plan entered by the Court, including that plan for augmentation decreed herein concerning the Denver and Arapahoe aquifers.

22. Withdrawals of groundwater available from the nontributary Laramie-Fox Hills aquifer beneath the SR Quarry Parcel in the amount determined in accordance with the provisions of this decree will not result in injury to any other vested water rights or to any other owners or users of water.

## PLAN FOR AUGMENTATION

23. The structures to be augmented are the existing and future wells as constructed and to be constructed to the not-nontributary Denver and Arapahoe aquifers within the boundaries of the District or contiguous thereto and available to the District and the decree entered in Case No. 08CW113, as well as out-of-priority storage and evaporative depletions associated with the SRMD Pond Nos. 1 and 2.

24. Applicant is hereby decreed a plan for augmentation for out-of-priority depletions associated with the SRMD Pond Nos. 1 and 2, and for the withdrawal of notnontributary Denver Basin groundwater rights in the Denver and Arapahoe aguifers, respectively, underlying property owned and controlled by the Applicant and affiliates Sterling Ranch Metropolitan District Nos. 2 and 3 as previously decreed in Case No. 08CW113, and underlying the SR Quarry Parcel as decreed herein, to support development of land served by the District, more particularly described on the attached Exhibit A, and depicted on the attached Exhibit B1 and B2 maps. During the pumping life of wells to the Denver and Arapahoe aguifers described above, it is anticipated that any out-of-priority depletions will be replaced by Lawn Irrigation Return Flows ("LIRFs") resulting from the irrigation of approximately 48 acres of parks and common areas, supplemented by pumping of decreed nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aguifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing Applicant shall utilize a portion of the nontributary Denver Basin SRMD wells. groundwater underlying property outside of the District ("Bar X Parcel") as decreed in Case No. 93CW18 and 93CW19 by the Division 1 Water Court, which amended prior Case No. 85CW445, for replacement of any injurious post-pumping depletions.

25. SRMD Pond Nos. 1 and 2, with a total maximum surface area of 3.81 acres, have been calculated by Applicant's consultants to result in maximum annual evaporative

losses of 10.58 acre feet assuming such ponds are maintained at full stage, resulting in a like depletion to Sand Creek, a tributary of Fountain Creek, tributary to the Arkansas River. As described below, Applicant will replace this 10.58 acre foot annual depletion through dedicated LIRFs accruing to Sand Creek in the vicinity of the District, as depicted on the Exhibit B2 Map, or by pumping of the decreed nontributary supplies decreed in Case Nos. 86CW19 and 08CW113, including from existing SRMD wells. Applicant asserts, and this Court accepts as reasonable, that the SRMD Pond Nos. 1 and 2 were filled in priority in 1999, and have been maintained at full stage since such in-priority fill. Should the SRMD Pond Nos. 1 and 2 be fully or partially drained at any point in the future and thus require partial or complete refill, and should such re-fill be unavailable in priority, Applicant shall augment any such out-of-priority storage and refill of SRMD Pond Nos. 1 and 2 utilizing reusable LIRF credits accruing to Sand Creek and in excess of those required to replace depletions from the pumping of the not-nontributary wells described herein, and in excess of those required to replace evaporative depletions (including from less than full-stage storage), or by pumping of decreed nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aguifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells up to a maximum of 16.54 acre feet, being the total combined capacity of both SRMD Pond Nos. 1 and 2.

26. The not-nontributary Denver Basin groundwater underlying the property owned by the District and its affiliates that is available for withdrawal in accordance with this plan for augmentation was previously adjudicated and quantified by the Division 2 Water Court in Case No. 08CW113 as follows:

Aquifer	Annual Average Withdrawal (Acre-Feet) <sup>3</sup>
Denver (NNT)	242.97
Arapahoe (NNT)	0.20

As quantified and determined herein, the SR Quarry Parcel has the following additional not-nontributary groundwater that is available for withdrawal in accordance plan for augmentation:

Aquifer	Annual Average Withdrawal (Acre-Feet) <sup>2</sup>
Denver (NNT)	15.19

<sup>&</sup>lt;sup>3</sup> This represents the annually estimated available quantity of water for a 300-year pumping life, as required by El Paso County Land Development Code.

Arapahoe (NNT)	14.37
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Depletions from the pumping of the not-nontributary Denver and Arapahoe aquifer water described above are equal to 4% of pumping, a maximum of 10.91 annual acre feet.

27. All existing exempt permitted wells to the Denver and Arapahoe aquifers, if any, shall be either repermitted as augmented structures under the plan for augmentation decreed herein, or abandoned, consistent with the rules and regulations of the State and Division Engineers. Applicant is hereby granted pursuant to the terms and conditions of the augmentation plan decreed herein, the right to withdraw all quantities of not-nontributary Denver Basin groundwater in the Denver and Arapahoe aquifers underlying the SR Quarry Parcel, and underlying the District and its affiliates as described above, through existing, additional or replacement wells located on the subject properties or upon contiguous properties, consistent with Rule 11.A. of the Statewide Nontributary Ground Water Rules, provided Applicant first acquires such interests in the overlying land as may be necessary for construction, maintenance and operation of any such wells, and infrastructure related thereto. Applicant expressly may withdraw the not-nontributary groundwater underlying the SR Quarry Parcel from any and all wells, both existing and as may in the future be developed, available to Applicant on said parcel or other contiguous properties upon which the District has wells and infrastructure to each of the Denver and Arapahoe aquifers, respectively.

## 28. <u>Water Rights to be Used for Augmentation.</u>

Depletions During Pumping. During the pumping life of the not-Α. nontributary wells described herein, any out-of-priority depletions caused by the pumping of the wells, as well as evaporative depletions from the SRMD Pond Nos. 1 and 2 described herein and located on-channel on Sand Creek with total surface area of approximately 3.81 acres, will be augmented by LIRFs unless and until such a time as the District has reusable treated effluent credits available in proper time, place and amount, and unless such LIRFs are insufficient to fully replace actual out-of-priority depletions. Maximum pumping of the not-nontributary aquifers described herein, in combination, shall be 272.73 acre feet over the pumping life of the wells. If at any time LIRFs prove insufficient to replace out-of-priority depletions, Applicant shall utilize decreed nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aguifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells. Applicant's LIRFs will accrue to Sand Creek as a result of irrigation uses throughout the District. Maximum evaporative depletions from SRMD Pond Nos. 1 and 2 are 10.58 acre feet annually, and

maximum depletions from the pumping of the not-nontributary Denver and Arapahoe aquifer wells within the District are 4% of pumping, or 10.91 annual acre feet, for total approximate annual depletions of 21.49 acre feet that are to be replaced under the plan for augmentation decreed herein, plus any out-of-priority storage within SRMD Pond Nos. 1 and 2, as described in Paragraph 25, above. As described in Paragraph 30, below, LIRFs resulting from irrigation within the District's service area will result in up to 27.45 annual acre feet of reusable return flow credits to Sand Creek, though Applicant will be limited to 17.65 annual acre feet of LIRF credits for such augmentation uses unless and until Applicant is awarded a right to additional LIRF credits utilizing the process identified in Paragraph 30, below.

B. <u>Post Pumping Depletions.</u> The water rights to be used for augmentation of any injurious post-pumping depletions occurring after the anticipated 300-year pumping life of the wells resulting from the pumping of the not-nontributary groundwater described in this plan for augmentation are a portion of the nontributary Denver Basin groundwater rights underlying the Bar X Parcel, as decreed in Case Nos. 93CW18 and 93CW19 by the Division 1 Water Court, which amended prior Case No. 85CW445 as owned and controlled by the District:

Aquifer	Total Allocation (AF)
Denver (NT)	136,000
Arapahoe (NT)	81,300
Laramie-Fox Hills (NT)	42,700
BAR X TOTAL:	260,000

Maximum post-pumping depletions resulting from the i. pumping of the not-nontributary Denver and Arapahoe aquifers underlying the lands owned and controlled by the District and its affiliates, including the SR Quarry Parcel, as described herein, should not exceed 258.13 annual acre-feet from the not-nontributary Denver Aquifer, and 14.60 annual acre-feet from the not-nontributary Arapahoe aquifer over 300-years of pumping, a total of 272.73 annual acre feet in combination. To replace any injurious post-pumping depletions Applicant shall dedicate 82,167 acre-feet, equivalent to an average of 272.73 acre feet annually based on 300-years of pumping, from the nontributary Denver aguifer underlying the Bar X Parcel, owned or controlled by SRMD and its affiliates, less the amount of actual stream depletions replaced hereunder during the plan pumping period. Applicant's consultant estimates that a total of 1,978.12 acre-feet of lawn irrigation return flows will replace stream depletions over the 300-year pumping period. The total 82,167 acre feet of reserved post-pumping replacement water, less the amount of actual stream depletions replaced during the plan pumping period, will be sufficient to replace all calculated injurious post-pumping depletions. Applicant's dedication and reservation of up to 82,167 acre feet annually of nontributary Denver aguifer groundwater, being a portion of the Bar X water previously adjudicated in Case No. 93CW18, will provide this maximum post-pumping augmentation supply. The total reserved nontributary groundwater supply, less the amount of actual stream depletions replaced during the plan pumping period, is sufficient to replace all estimated injurious post-pumping depletions.

29. <u>Augmentation of Evaporative and Out-of-Priority Storage Depletions.</u> Applicant's consultants have calculated, and the Court accepts such calculations as reasonable, that net evaporative depletions of the combined maximum surface areas of the SRMD Ponds Nos. 1 and 2, being approximately 3.81 surface acres, will be 46.5 inches. The equations upon which Applicant's consultants have relied upon for calculating evaporative depletions and out-of-priority storage, are more particularly described in Paragraph 29.A., below. Therefore, the SRMD Ponds Nos. 1 and 2 will have combined evaporative depletions of approximately 10.58 annual acre-feet. Evaporative depletions resulting from the SRMD Ponds Nos. 1 and 2 will be augmented by: (1) excess LIRF credits, or (2) pumping from the nontributary Arapahoe and/or Laramie-Fox Hills aquifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells, as described above.

A. Depletion/Evaporation Formulas:

i. Gross Evaporation at the SRMD Ponds No. 1 and No. 2 = 46.5 inches (per NOAA Plate No. 33 in Colorado)

ii. Monthly Gross Evaporation = (46.5"/12) \* (Monthly Evap.

Percentage)

iii. Monthly Evaporation Percentage Table from Colorado Division of Water Resources:

Month	Percentage
January	1.0%
February	3.0 %
March	6.0 %
April	9.0 %
May	12.5 %
June	15.5 %
July	16.0 %
August	13.0 %
September	11.0 %
October	7.5 %
November	4.0 %
December	1.5 %

iv. Monthly Gross Precipitation (inches) = Black Forest WNW Weather Station No. 6

v. Monthly Effective Precipitation (feet) = (Monthly Gross Precipitation) \* 70 % / 12

vi. Net Monthly Pond Evaporation = ((Monthly Gross Evap.) \* (Monthly %)) – (Effective Precipitation)

vii. Monthly Total Lake Evaporation = (Monthly Net Lake Evaporation) \* (Total Surface Area of Ponds) (Note: Total Surface Area of ponds are assumed to be full at 3.81 Acres)

B. <u>Out-of-Priority Storage:</u> The method to accurately obtain monthly out-of-priority storage volumes for the two ponds is as follows:

i. Stage capacity curves for ponds, as constructed, are attached to this Decree collectively as **Exhibit D**.

ii. Prior to storage of water and administration of the augmentation plan decreed herein, a staff gauge shall be installed in each of the ponds with increments sufficient to monument the staff gauge to the stage capacity curves described in **Exhibit D**.

iii. Using the daily accounting summary for Case No. 20CW3059 daily readings of the SRMD Pond No. 1 and No. 2 staff gauges can be recorded with associated pond volumes documented in Acre-Feet to determine out-of-priority storage. Any positive differences in the pond storage can be documented in the daily data entry form as out-of-priority storage that must be augmented hereunder.

C. <u>LIRF Credits.</u> LIRF credits resulting from irrigation of parks and common areas throughout the District, anticipated to be approximately 48 acres, are anticipated to be available in excess of that required for augmentation of the not-nontributary Denver and Arapahoe aquifer wells described herein, as further described in Paragraph 30, below. Applicant shall likewise utilize such LIRF credits to offset and augment all or part of the estimated 10.58 annual acre feet of evaporative depletions associated with SRMD Pond Nos. 1 and 2, supplemented with nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aquifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells, as described below.

D. <u>Nontributary Groundwater.</u> In the alternative, and at all times when LIRF credits are insufficient to offset and augment the out-of-priority depletions described herein, including until such time as Applicant has constructed all of the approximately 48 acres of irrigated parks and common areas from which LIRF credits will ultimately accrue, Applicant shall pump to the stream such quantities of nontributary groundwater as necessary to fully augment evaporative depletions associated with SRMD Pond Nos. 1 and 2, estimated to be a maximum of 10.58 annual acre feet, not otherwise augmented through excess LIRF credits. The nontributary Laramie-Fox Hills aquifer underlying approximately 1,410 acres of the District was quantified in Case No. 86CW19 by the Division 2 Water Court, while the nontributary Laramie-Fox Hills aquifer underlying the remaining 41.44 acres of the District was quantified in Case No. 08CW113, Water Division 2. Nontributary groundwater in the Arapahoe aquifer was primarily quantified in Case No. 86CW18, Water Division 1, with a 4 acre-foot portion quantified in Case No. 08CW113, Water Division 2. Such adjudications provide for the combined annual withdrawals of nontributary groundwater well in excess of any depletions created through the use and maintenance of SRMD Pond Nos. 1 and 2, and such groundwater was previously adjudicated for all municipal uses, expressly including augmentation. Such groundwater will be pumped to Sand Creek in times and volumes necessary to prevent injury to other vested water rights users, at or above the point on Sand Creek depicted on the **Exhibit B2** Map. Prior to operation of the augmentation plan decreed herein, Applicant shall design and install infrastructure sufficient to allow Applicant, as contemplated in paragraph 30(L) herein, to deliver non-tributary Denver Basin Groundwater to Sand Creek at a point at or above the point depicted on Exhibit B2.

30. <u>Quantification of Reusable LIRFs</u>. Water use within the District's boundaries will include use for outdoor purposes, including irrigation of lawns, landscaping, open space, medians, and similar (*i.e.* parks and common areas). A portion of the water used for outdoor purposes, being reusable LIRFs, will return to the Sand Creek stream system unconsumed, and is therefore available to replace evaporative and well pumping depletions from the structures described herein. The District's consultants conducted a study of anticipated water uses within the District using water use data, climate data, anticipated irrigated acreages, irrigation requirements, and projected tree canopy areas in order to determine total annual LIRFs as a percentage of total annual outdoor water use. The location, amount, and timing of reusable LIRFs available for use by the District from outdoor water use shall be determined using the procedures described in this Paragraph 30.

As a baseline, the LIRFs available for use as an augmentation supply Α. for purposes of this decree will be a minimum of 15% of the total amount of water applied for irrigation of parks and common areas within the District's current and future boundaries, which will accrue to Sand Creek, tributary to Fountain Creek, tributary to the Arkansas River, estimated at an average of 17.65 acre feet annually. Applicant shall not be entitled to claim greater than 15% of the total amount of water applied for irrigation of common areas and parks within the District as LIRF credits without first complying with all provisions of this Paragraph 30. The approximate location at or upstream of which all such LIRFs are anticipated to accrue is shown on the attached Exhibit B2 map. However, the District's consultants' analysis determined that actual re-usable LIRFs are estimated to be an average of 26.14% of the total amount of water applied to outdoor use, with resulting return flows of 27.45 acre feet annually. The actual re-usable LIRFs will therefore amount to between 15% and 26.14% of total outdoor irrigation uses, based upon the relationship between deep percolation (expressed as a fraction of the amount of water applied) and the amount of water applied (expressed as a fraction of the potential consumptive use of lawn grass), referenced as the "Cottonwood Curve". and the methodology referred to as the "Cottonwood Methodology", first approved in Case No. 81CW142 in Water Division 1. The District has calculated the timing of the deep percolation portion of such reusable LIRFs to the Sand Creek stream system using the

Glover bounded alluvial aquifer equation. Applicant's consultants have estimated based upon zoning and land use plans developed by the District's landscape architects and approved by El Paso County, that approximately 48 acres of parks and common areas will be irrigated throughout the District, resulting in LIRFs calculated at approximately 17.65 to 27.45 acre feet annually, based on the percentages described above, and this Court determines this estimate to be reasonable. With maximum annual depletions from pumping of not-nontributary aquifers estimated at 10.91 acre feet (4% of a maximum of 272.73 annual acre feet of pumping), and evaporative depletions of the SRMD Ponds estimated at a maximum of 10.58 acre feet, for a total of 21.49 annual acre feet to be augmented, LIRFs available after construction and irrigation of approximately 48 acres of parks and common area may sufficiently augment evaporative depletions from the SRMD Ponds and well depletions during pumping, with any shortfall in LIRF supply being supplemented with pumping from the nontributary aquifers located within the District in an amount sufficient to replace any remaining depletions. To determine a final LIRF percentage upon buildout of areas upon which outdoor uses will be made (i.e. construction of the approximately 48 acres of parks and common areas from which LIRFs will accrue, and application of metered irrigation water supplies thereto), should the District wish to claim the minimum 15%, or a greater amount of reusable LIRFs, the District shall utilize the following procedures:

B. Total outdoor water use shall be determined on a monthly basis for the months of April through October of each year as the total amount of metered monthly deliveries to the parks and common areas. Prior to Utilizing LIRFs as an augmentation source, Applicant shall install meters capable of recording the amount of irrigation water provided to each park and/or common area from which LIRFs will accrue.

C. Reusable subsurface LIRFs from outdoor water use shall be preliminarily calculated as 15% of the total metered irrigation use for that month. The location of accretions to Sand Creek is the point where LIRFs are deemed to accrue to Sand Creek, as depicted on **Exhibit B2**.

D. The timing of accretion of such subsurface LIRFs to the alluvium has been determined by Applicant's consultants to be within 30 days, in light of local conditions and the proximity of irrigation to Sand Creek and its alluvium.

E. Prior to taking any credits for LIRFs in percentages greater than the baseline percentage of 15%, the District shall install a series of piezometers in consultation with the State Engineer's Office and complete a piezometer study, in order to document the presence, depth and calculated baseline quantities of the groundwater table, and verify the direction of groundwater flow.

F. To assure that the LIRFs are actually returning to the Sand Creek stream system, in order to take credits for LIRFs in percentages greater than the baseline percentage of 15%, the District shall demonstrate through piezometer measurements the existence of a water table with a hydraulic gradient toward the Sand Creek stream system, including its associated alluvium.

G. To document the quantity of LIRFs accruing to Sand Creek the District shall demonstrate through piezometer observations and measurements the increase in groundwater quantities resulting from LIRFs, and provide the State and Division Engineers, and any opposers in this matter requesting the same, an engineering analysis of such increased groundwater quantities, and calculation of the resulting appropriate LIRF percentage in an amount greater than the baseline 15%.

H. The following additional provisions shall apply to the piezometer study described above, necessary for the District to take credit for LIRFs in percentages greater than the baseline 15%:

i. The exact location of piezometers shall be determined by field observation jointly with the District's consultants and State Engineer staff and, prior to constructing any piezometers, the District shall notify the Division of Water Resources of the date and location when construction will occur to allow for observation, if desired. The contemplated location of piezometers is depicted on the attached **Exhibit B2**.

ii. The piezometer boreholes shall be logged under the supervision of a professional geologist or professional engineer and shall be sampled at not less than 5-foot intervals using a split-barrel sampler using the Standard Penetration Test, ASTM D1586. Written borehole logs shall be prepared that describe the subsurface materials at not less than 5-foot intervals, including a description of grain sizes and induration of sediments encountered during piezometer borehole construction.

iii. The total depth of unconsolidated materials overlying bedrock shall be identified for each piezometer borehole log. The top of bedrock shall be defined as the depth at which geologic materials are consolidated, or when the Standard Penetration Test results in a blow count greater than 29 blows to advance the split-barrel sampler the last 1 foot of the 1.5-foot Standard Penetration Test interval, whichever is shallower.

iv. Piezometer construction shall comply with the Colorado Water Well Construction Rules and shall consist of 2-inch PVC pipe with suitable perforations in the pipe and with a hole drilled in the bottom cap, and shall extend through the entire saturated thickness of the materials. The bottom of the piezometer shall be installed at the depth at which bedrock is encountered.

v. The elevation of the surface at, and the location of, each piezometer shall be determined by survey, and following piezometer construction, the depth to water shall be measured in the piezometers and reported to the Division of Water Resources and, upon request, to any other objector hereto. Piezometers shall be monitored and read on a monthly basis for a minimum period of 12 consecutive months (or longer, in the District's discretion), beginning upon the installation of the piezometer or the first measurement of a water table, and the piezometer water level shall be recorded in a monthly table of groundwater elevation and depth to groundwater.

vi. <u>Piezometer Report</u>. The District shall develop a report prepared by a professional geologist or professional engineer that presents all of the following information:

a. Location of each piezometer;

b. Borehole log and Standard Penetration Test for each piezometer location;

c. Monthly water level measured in each piezometer for twelve (12) consecutive months;

d. Average water level elevation in each piezometer;

e. Map of average piezometer groundwater level elevation that demonstrates a groundwater gradient towards Sand Creek and its tributaries.

vii. Acceptance of Piezometer Report. lf piezometer measurements for a continuous period of 12 months (or longer, in the District's discretion) demonstrate increases in the water table resulting from LIRFs in excess of the baseline 15% authorized by this decree, the District shall serve its Piezometer Report to the Division of Water Resources and the Opposers, to demonstrate that an increase in the percentage of re-usable LIRFs is appropriate. The Opposers will have 63 days from the date of service to provide written comments concerning the Piezometer Report to the District and the Division of Water Resources. Applicant must obtain the Division of Water Resources' approval of the Piezometer Report prior to claiming augmentation credit for LIRFs that is greater than the 15% credit approved herein. The Division of Water Resources shall review said Piezometer Report and the Opposers' comments thereto and within 63 days of receipt of said comments, the Division of Water Resources shall (a) Reject the findings of the Piezometer Report and not allow any increase in LIRF credits; (b) Accept the findings of the Piezometer Report and approve the increase in LIRF credit percentage requested therein by the District; or (c) Accept a portion of the findings of the Piezometer Report while rejecting others and recommending an alternative increase in LIRF credit percentages. Either Applicant or Opposers may appeal any such decision by the Division of Water Resources to this Court under the Court's retained jurisdiction as described in Paragraphs 57 and 58, below, and any such appealing party shall have the burden of proof in such an appeal. Applicant shall have the initial burden of proof that the requested increase in percentage of LIRFs credit will not result in injury to other water users. Following acceptance of the Piezometer Report by the Division of Water Resources or the Court under its retained jurisdiction, in whole or in part, increased LIRF credits may be taken by the District.

viii. The District shall have the right to decide if and when to install each of the said piezometers, but the District shall receive no increased credit for LIRFs

in the Sand Creek basin until the piezometers are installed and the Division of Water Resources has approved any increase in the LIRF credit percentage based upon the Piezometer Report described above.

I. The timing of accrual of LIRFs to the Sand Creek stream system was determined by the District using the Glover equation, using representative aquifer hydraulic characteristics and centroidal distances to live flow in the respective creeks, and the alluvial boundaries for each drainage basin. Such analysis determined that LIRFs will accrue to the alluvium of Sand Creek within 30 days. The timing of accrual of LIRFs is such that the LIRFS will accrue in the month following irrigation water application.

J. The LIRFs available to the District under this Decree may be used, reused, and successively used by the District for the same decreed purposes as the reusable water which generates such LIRFs, including, but not limited to, use as a replacement source for the plan for augmentation decreed herein.

K. LIRF credits in excess of the District's augmentation obligations will remain in the stream, but the District does not waive and expressly reserves its right to claim and use any excess LIRF credits in a subsequent plan for augmentation upon approval by this Court. To the extent LIRF credits are insufficient in any month to replace depletions resulting from not-nontributary well pumping, evaporation, and out-of-priority storage, the District shall during such month, and on a schedule acceptable to the Division Engineer, pump sufficient quantities of nontributary Denver Basin groundwater to Sand Creek at a point at or above the point depicted on **Exhibit B2**. In order to document the amount of monthly nontributary Denver Basin pumping required to augment any alluvial depletions measured to be in excess of available LIRF's, if any, depletions will be tracked on a daily basis in Applicant's accounting, an example of which is provided in **Exhibit C**, and augmented monthly as reported to the Water Commissioner. Depletions will be tracked in the accounting sheet as follows:

1) Daily Total Depletion to Alluvium	=	Column AR
2) Daily Estimated LIRF Volume (Credits to Alluvium)	=	Column AS
<ol><li>Daily Obligations to Alluvium</li></ol>	=	Column AT
<ol><li>Daily Excess Credits to Alluvium</li></ol>	=	Column AU

At the end of each month, if augmentation obligations are in excess of LIRF credits calculated to be available, the District shall pump nontributary groundwater at or above the point depicted on **Exhibit B2**. If there are excess LIRF credits, such LIRF Credits can be carried over for augmentation purposes only for a period of one month as tracked in column AW of the Exhibit C accounting.

31. <u>Other Supplies of Augmentation Water of Limited Duration</u>. Pursuant to C.R.S. §37-92-305(8), the Court may authorize the District to use additional or alternative sources of augmentation water for replacement in this augmentation plan, including water leased by the District, if such sources are part of a substitute water supply plan approved pursuant to C.R.S. §37-92-308, or an interruptible supply agreement approved under C.R.S. §37-92-309, or other applicable and/or successor statutes, or if such sources are

decreed for such use. In order to add these sources to this plan for augmentation, the procedures in Paragraphs 31.A. and 31.B. must be followed. These procedures are adequate to prevent injury to other water rights that might otherwise result from the addition of these sources to this plan.

Additional Water Rights Separately Decreed or Lawfully Available for Α. Augmentation Use. If a water right is decreed or lawfully available for augmentation use and not already approved for such use under this Decree, the District shall give at least 63 days advance written notice of use of the water right for augmentation to the Court, the Division Engineer, and all the objectors herein which shall describe: 1) the water right by name and decree, if any; 2) the annual and monthly amount of water available to SRMD from the water right; 3) the manner by which the water will be used to replace outof-priority depletions associated with this plan for augmentation; 4) the date of initial use of the water in this plan for augmentation; 5) the duration of use of the water in this plan for augmentation; 6) identification of any applicable exchanges, including the exchange reach, if the water is to be introduced downstream of the out-of-priority depletion; 7) if an exchange is required for the water to be used, proposed terms and conditions relative to the exchange operation; 8) the location or locations at which the water will be delivered to the stream; 9) evidence that the claimed amount of water is available for use in this plan for augmentation and is not and will not be used by any other person; and, 10) the manner in which the District will account for use of the augmentation credits. Said notice shall specifically include a request that the Court enter an Order either affirming or denying the District's proposal, and that said Order be attached to this Decree.

i. <u>Objection to Use of New Source</u>. If any person wishes to object to the addition of the noticed water rights to this plan for augmentation, a written objection shall be filed with the court within 63 days after the date the Notice was given by the District. If no objection is so filed, the Court shall promptly enter an Order affirming the District's immediate use of the noticed water rights. If an objection is so filed, then the District may not use the noticed water rights until the Court has determined whether and under what terms and conditions the water rights may be used in this plan.

ii. <u>Hearing on Use of New Source</u>. Where an objection has been filed to the use of a noticed water right in this plan for augmentation, the Court shall promptly schedule a hearing to determine whether and under what terms and conditions the water right may be used in this plan for augmentation. The Court shall conduct whatever proceedings are needed to appropriately address and resolve the disputed issues. At such hearing, the Court shall impose such terms and conditions as necessary to prevent injury to vested water rights and decreed conditional water rights. If the Notice requested temporary use of the noticed water rights in this plan for augmentation for a period not to exceed one year, then the Court shall grant an expedited hearing.

iii. <u>New Sources Requiring Operation of Exchange</u>. Where the use of a noticed water right in this plan for augmentation requires the operation of any new exchange(s), the District must obtain approval of the Division Engineer and Water Commissioner prior to operating such exchanges. The District must submit a separate

Water Court application if seeking to adjudicate any such exchange(s).

B. <u>Additional Water rights – Temporary Administrative Approval</u>. If a water right is not decreed or otherwise lawfully available for augmentation use, and Colorado Statutes or other governing authority provides a mechanism for using such water right without the need of a decree, the District shall provide written notice to the objectors herein of its request for approval of the State Engineer pursuant to C.R.S. §37-92-308, or C.R.S. §37-92-309, or any other applicable statute or rule. Such notice shall be in addition to any notice required by any applicable statute or rule. The District may use such water rights in this plan for augmentation upon the State Engineer's approval of the underlying administrative application for the term of any such approval, unless such approval is reversed or modified on appeal or under the retained jurisdiction provisions of this Case No. 20CW3059.

32. Applicant may substitute other legally available augmentation sources for replacement of any such injurious post-pumping depletions under this Court's retained jurisdiction, as described in Paragraph 31, above. Applicant claims that post-pumping depletions will be noninjurious and need not be replaced to prevent injury, though this Court makes no such finding by this decree. Applicant has reserved the right in the future to prove that said post-pumping depletions will be noninjurious and post-pumping depletions will be noninjurious under the Court's retained jurisdiction pursuant to paragraph 58.

33. Applicant shall replace post-pumping depletions for the shortest of the following: (a) the period provided by C.R.S. §37-90-137(9)(c); (b) the express period specified by the Colorado Legislature, should it specify one; (c) the period determined by the State Engineer, should he choose to set such a period and have jurisdiction to do so; (d) the period established through rulings of the Colorado Supreme Court on relevant cases, or (e) until Applicant petitions the Water Court, and after notice to parties in the case and the State Engineer's Office, proves that it has complied with any statutory requirement.

34. If operated pursuant to the terms and conditions set forth herein, the plan for augmentation decreed herein will allow Applicant to provide for the augmentation of any injurious out-of-priority stream depletions which may be caused by the pumping of the not-nontributary Denver and Arapahoe aquifer groundwater underlying the Sterling Ranch Metropolitan District Nos. 2 and 3, the SR Quarry Parcel, and out-of-priority storage and evaporative depletions from the SRMD Ponds Nos. 1 and 2. Applicant shall utilize the not-nontributary Denver Basin groundwater in the Denver and Arapahoe aguifers underlying the SRMD Metropolitan District Nos. 2 and 3 and the SR Quarry Parcel for municipal uses throughout the District's municipal service area, as currently exists or as may exist in the future, expressly including augmentation purposes. Applicant shall replace any out-of-priority depletions resulting from the SRMD Ponds Nos. 1 and 2, and the Applicant's use of the not-nontributary Denver Basin ground water described in paragraph 28 above during the pumping life of the wells through LIRFs accruing to Sand Creek, or by pumping of the decreed nontributary supplies decreed in Case Nos. 86CW19 and 08CW113, including from existing SRMD wells, and any injurious post-pumping or evaporative depletions through the dedication of nontributary Denver Basin groundwater supplies and excess LIRFs. Applicant has reserved sufficient nontributary Denver Basin groundwater supplies for replacement of any injurious post-pumping depletions.

35. <u>Curtailment.</u> Applicant's plan for augmentation, as decreed herein, is sufficient to permit the pumping of not-nontributary supplies in the Denver and Arapahoe aquifers underlying the District as described herein, including the SR Quarry Parcel, and the evaporative depletions from the SRMD Ponds Nos. 1 and 2, to the extent the District complies with all the terms and conditions of this decree including, but not limited to, providing the necessary replacement water as required by this decree. Pursuant to C.R.S. §37-92-305(8), the State Engineer shall curtail all out-of-priority diversions, the depletions from which are not so replaced to prevent injury to vested water rights.

36. <u>Terms and Conditions</u>. This Court finds that there will be no material injury to the owners or users of water diverted under vested water rights or conditional water rights as a result of operation of the plan for augmentation, so long as there is compliance with and proper administration of the protective terms and conditions herein.

A. <u>Lawn Irrigation Return Flow Credits.</u> The lawn irrigation return flows from the District's use of nontributary and not-nontributary groundwater rights, after meeting replacement requirements, shall only be used as an augmentation source in the instant plan for augmentation. All such return flow credits not utilized in the instant plan for augmentation shall, subject to the terms of a future decree, be available for the District's use and re-use, including for sale or lease to other parties.

Β. The reserved nontributary Denver Basin groundwater rights are adequate for replacement of all anticipated post-pumping depletions resulting from the groundwater withdrawals from the not-nontributary Denver and Arapahoe aguifers underlying the District as described herein, including the SR Quarry Parcel, and the evaporative depletions from the SRMD Ponds Nos. 1 and 2, augmented under this plan for augmentation. The District shall initiate pumping of said nontributary Denver Basin groundwater, or provision of any alternative augmentation supply as may be decreed by the Court, for the replacement of any out-of-priority post-pumping depletions upon cessation of withdrawals from the Denver and Arapahoe aguifers as augmented herein. "Cessation of Withdrawals" occurs when (1) the total volume of water available from the Denver and Arapahoe aguifers allowed to be withdrawn under the plan for augmentation decreed herein has been withdrawn; (2) the District has acknowledged in writing that all withdrawals from such aquifers have ceased permanently; (3) no withdrawals of groundwater have been made from the subject aquifers for a period of ten (10) consecutive calendar years; or (4) accounting shows that the augmentation sources described in Paragraph 28.B, above, are insufficient to replace depletions caused by withdrawals that have already occurred, and Applicant has not provided supplemental or additional augmentation supplies to remedy such insufficiency. Nothing herein shall preclude the District or its successors from resuming withdrawals from such notnontributary aquifers after cessation of withdrawals as defined above has occurred. If pumping is resumed, then the District's augmentation requirements for such wells shall be determined in accordance with Paragraph 28.B of this Decree, and its post-pumping augmentation obligation shall be determined as if no cessation of withdrawals had occurred.

C. A copy of the Decree shall be recorded in the records of the Clerk and Recorder for El Paso County, Colorado, and shall constitute a covenant running with the land, requiring Applicant and its successors in interest to be bound by the terms, conditions, and requirements of this Decree and the plan for augmentation herein, including the requirement to construct and pump well(s) to the nontributary aquifers identified herein or take such other measures as necessary to replace any injurious postpumping depletions upon Cessation of Withdrawals. Failure of Applicant or its successors in interest to comply with such requirements of this Decree may result in enforcement actions from the State Engineer's Office including curtailment or elimination of pumping from the not-nontributary aquifers. The covenant represented by this Decree when so recorded shall be amended as necessary to conform to the provisions of any amendment to this plan for augmentation which may occur

While the adjudications of the Denver Basin groundwater to be D. utilized in this plan for augmentation anticipate an aquifer life of 300 years for each Denver Basin aquifer, the length of this plan for augmentation may be shorter than, or extend beyond, such time period provided the total pumping allocated to any augmented well or wells is not exceeded. Should the actual operation of this augmentation plan depart from the planned diversions described in this decree such that the plan may be extended beyond the anticipated 300-year aquifer life, Applicant may be required to develop a revised model of stream depletions caused by the actual pumping schedule by the State or Division Engineer. Any such revised model analysis shall utilize depletion modelling acceptable to the State Engineer, and shall represent the water use under the plan for the entire term of the plan to date. The analysis shall further demonstrate that return flows have equaled or exceeded actual stream depletions to date throughout the pumping periods and that reserved nontributary water remains sufficient to replace post-pumping and evaporative depletions. If such revised modeling is required by the State and Division Engineers, the District shall serve the revised model on the Opposers and they shall have 63 days from service of the revised model and analysis to provide the Division Engineer with comments, concerns or objections regarding the revised model. The Division Engineer shall have 70 days from the receipt of the opposers comments on the revised model and analysis to consider the analysis and Opposers comments thereto, and to approve or disapprove the extension of the term of the plan, or to suggest terms and conditions appropriate to such an approval. Either Applicant or Opposers may appeal any such decision by the Division Engineer to this Court under the Court's retained jurisdiction as described in Paragraphs 57 and 58, below, and any such appealing party shall have the burden of proof in such an appeal. Applicant shall have the initial burden of proof that the extension of the term of the plan for augmentation will not result in injury to other water users.

37. Consideration has been given to the depletions from Applicant's use and proposed uses of water, in quantity, time and location, together with the amount and

timing of augmentation water which will be provided by the Applicant, and the existence, if any, of injury to any owner of or person entitled to use water under a vested water right.

38. It is determined that the timing, quantity and location of replacement water under the terms and conditions of this decree are sufficient to protect the vested rights of other water users and eliminate injury thereto. The replacement water shall be of a quantity and quality so as to meet the requirements for which the water of senior appropriators has normally been used, and such replacement water shall be accepted by the senior appropriators in substitution for water derived by the exercise of their decreed rights pursuant to CRS § 37-92-305(5) . The depletions from the wells withdrawing not-nontributary water underlying the SR Quarry Parcel, and any additional or replacement wells associated therewith, and the evaporation from the SRMD Ponds Nos. 1 and 2 will not result in injury to the vested water rights of others.

# CONCLUSIONS OF LAW

39. Based upon and fully incorporating herein the Findings of Fact set forth above as though fully set forth herein, this Court concludes as a matter of law that:

40. Applicant's request for adjudication of the Denver Basin groundwater underlying the SR Quarry Parcel is contemplated and authorized by law, and this Court and the Water Referee have exclusive jurisdiction over these proceedings. §§ 37-92-302(1)(a), 37-92-203, and 37-92-305, C.R.S.

41. Subject to the terms and conditions of this decree, the Applicant is entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the parcels and property described herein, and the right to use that water to the exclusion of all others subject to the terms of this decree.

42. The Applicant has complied with C.R.S. §37-90-137(4), and the Laramie-Fox Hills groundwater underlying the SR Quarry Parcel is legally available for withdrawal, and the not-nontributary Dawson, Denver, and Arapahoe aquifer groundwater underlying the SR Quarry Parcel is legally available for withdrawal upon the entry of a decree approving an augmentation plan pursuant to C.R.S. §37-90-137(9)(c.5), and such a plan for augmentation is decreed herein as concerns the not-nontributary Denver and Arapahoe aquifer groundwater. Applicant is entitled to a decree from this Court confirming its rights to withdraw groundwater pursuant to §37-90-137(4), C.R.S.

43. The Denver Basin water rights described herein are not conditional water rights, but are vested water rights determined pursuant to C.R.S. §37-90-137(4). No applications for diligence are required. The claims for nontributary and not-nontributary groundwater meet the requirements of Colorado Law.

44. The confirmation, determination and quantification of the nontributary and not-nontributary groundwater rights in the Denver Basin aquifers as set forth herein is

contemplated and authorized by law. C.R.S. §§37-90-137, and 37-92-302 through 37-92-305.

45. <u>Satisfaction of Burdens of Proof.</u> Applicant has complied with all requirements and satisfied all standards and burdens of proof including, but not limited to, C.R.S. §§37-92-302 through 305, excepting sections 305(3.5) and 305(3.6) which are inapplicable hereto, as amended. Applicant is entitled to a decree confirming and approving the quantification of Denver Basin groundwater, and the plan for augmentation decreed herein, which will not injuriously affect the owners of or persons entitled to use water under vested water rights or decreed conditional water rights as long as the plan for augmentation is operated and administered in accordance with the terms and conditions herein.

46. The augmentation plan decreed herein is one contemplated by law. If implemented in accordance with the terms and conditions of this decree, the plan will permit the use of water without material injury to the vested or conditionally decreed water rights of others.

47. The Court is required to retain jurisdiction in a decree approving an augmentation plan on the question of injury to vested or conditional water rights. C.R.S. §37-92-304(6). Such jurisdiction is retained and described in detail at Paragraph 57, below.

# IT IS THEREFORE ORDERED, ADJUDGED AND DECREED AS FOLLOWS:

48. All of the foregoing Findings of Fact and Conclusions of Law are incorporated herein by reference, and are considered to be a part of this decretal portion as though set forth in full.

49. The Application for Surface Water Storage Rights, Adjudication of Denver Basin Groundwater and for Approval of Plan for Augmentation filed by the Applicant is approved, subject to the terms of this decree.

50. The Applicant will comply with C.R.S. §37-90-137(9)(b) requiring the relinquishment of the right to consume two percent (2%) of the amount of the nontributary groundwater underlying the SR Quarry Parcel adjudicated herein. Ninety eight percent (98%) of the nontributary groundwater withdrawn may therefore be consumed. No plan for augmentation is or shall be required to provide for such relinquishment.

51. The operation of the District's augmentation plan as decreed herein provides for the replacement of all injurious out-of-priority depletions which may result from withdrawals of not-nontributary groundwater from the Denver and Arapahoe aquifers underlying the District, including the SR Quarry Parcel, and out-of-priority storage and evaporative depletions from the use and operation of the SRMD Ponds Nos. 1 and 2, as described herein, augmented during pumping through dedication of lawn irrigation return flows, or pumping of nontributary groundwater decreed in Case Nos. 86CW18, 86CW19

and 08CW113, or additional sources approved in accordance with the terms of this decree, and augmented post-pumping through dedication and pumping of the nontributary Denver Basin groundwater rights decreed in Case No. 93CW18, as more particularly described in Paragraph 28.B, herein. The terms and conditions of this decree are adequate to assure that no injury to any water users will result from operation of this plan for augmentation. The Court approves this plan subject to the terms and conditions contained in this decree.

52. The replacement and augmentation supplies that the District will use for operation of the plan for augmentation decreed herein are of a quality and quantity so as to meet the requirements for which the water of senior appropriators has normally been used.

53. The State and Division Engineers and the Water Commissioner shall administer this augmentation plan in accordance with the terms and conditions contained in this decree. So long as the District operates the SRMD Ponds Nos. 1 and 2, and its wells to the not-nontributary Denver and Arapahoe aquifers in accordance with this decree, this augmentation plan can be operated without adversely affecting the owners or users of vested water rights or decreed conditional water rights on Sand Creek or its tributaries. So long as water is used in conformance with the requirements of this decree, there will be no injurious effects to the vested or decreed conditional water rights of others related to the amount or timing of water availability.

The State Engineer, the Division Engineer, and/or the Water Commissioner 54. shall not curtail the diversion and use of water covered by the plan for augmentation decreed herein, so long as the lawn irrigation return flows necessary for augmentation during the pumping life of the not-nontributary Denver and Arapahoe aquifers described herein continue to accrue to the stream system pursuant to the conditions contained herein or the Applicant utilizes the nontributary water available to it under Case Nos. 86CW18, 86CW19 and 08CW113 to replace depletions. To the extent that Applicant or its successors or assigns is unable to provide the replacement water required, then the wells and ponds shall not be entitled to continue under the protection of this plan, and shall be subject to administration and curtailment in accordance with the laws, rules, and regulation of the State of Colorado. Pursuant to C.R.S. §37-92-305(8), the State Engineer shall curtail all out-of-priority diversions which are not so replaced as to prevent injury to vested water rights. In order for this plan for augmentation to operate, LIRFs must at all times during pumping be in an amount sufficient to replace the amount of stream depletions. The State Engineer shall issue well permits in accordance with C.R.S. §37-90-137(4) and/or (10) and consistent with the terms and conditions of this Decree. All such wells constructed by Applicant pursuant to the augmentation plan decreed herein shall be geophysically logged consistent with applicable rules and regulations of the State and Division Engineers.

55. Applicant shall install such metering and measuring devices as may be reasonably required by the State and Division Engineers to ensure proper measurement and accounting of all withdrawals and pumping.

Accounting. The District has demonstrated an appropriate method of 56. accounting for diversions and stream depletions associated with the operation of this plan for augmentation. The District's accounting under this decree shall include the following information: (1) the daily volume of water pumped from each not-nontributary Denver and Arapahoe aquifer well; (2) the daily amount of water used for irrigation within the District and from which LIRFs are claimed, (3) the weekly out-of-priority stream depletions from prior weeks' pumping and from the current week's pumping; (4) the source and amount of the replacement sources used for augmentation in this plan, which shall be accounted for daily and reported monthly; and (5) the amount of any additional or alternative augmentation supplies allowed under Paragraph 29, which shall be accounted for daily, balanced weekly, and reported monthly. Unless specifically indicated by this decree, all accounting records required by this decree shall be filed with the State Engineer and Division Engineer on a monthly basis. An example of the District's current accounting forms, in which the accounting required by this plan for augmentation will be integrated, is attached as Exhibit C. Such Accounting forms are included as an example only and are not decreed herein. The Applicant's current accounting forms are adequate to account for the water rights and augmentation plan under this decree; however, said forms are not decreed herein and may be changed from time to time so long as the information required by this decree is included in the forms. Applicant shall serve the Opposers and the Division Engineer with any modified accounting forms. The Opposers will have 63 days thereafter to provide written comments concerning the modified accounting forms to Applicant and the Division Engineer. Applicant must obtain the Division Engineer's approval of the modified accounting forms prior to their use. Upon the Division Engineer's approval of the modified accounting forms, Applicant shall file the approved modified accounting forms with the Court, with service on the opposers herein. Applicant shall make its accounting available to the Water Commissioner and to any party who requests it, providing a summary of withdrawals, return flows, depletions, and augmentation releases associated with the District's operation of the augmentation plan approved herein. The daily accounting and all backup and supporting information and documents shall also be provided to any objector making a written request for said accounting for the accounting year, upon payment of reasonable costs. The accounting shall be delivered to the Division Engineer and Water Commissioner in the manner they prescribe and may be delivered to other objectors in paper or electronic format at the District's option.

57. <u>Retained Jurisdiction.</u> Pursuant to the provisions of C.R.S. §37-92-304(6), this plan for augmentation decreed herein shall be subject to the reconsideration of this Court on the question of material injury to vested water rights of others, for a period of five years after Applicant fully utilizes the LIRFs as an augmentation supply, as evidenced by the District's provision of written notice to Opposers herein that all parks and common areas anticipated to result in LIRF credits have been developed and constructed, and the District is irrigating such parks and common areas with approved water sources allowing such LIRF credits to be claimed. Any person, within such period, may petition the Court to invoke its retained jurisdiction. Any person seeking to invoke the Court's retained jurisdiction shall file a verified petition with the Court setting forth the factual basis for the relief requested in the petition, together with proposed decretal language to effect the

petition. The party filing the petition shall have the burden of proof of going forward to establish the facts alleged in the petition. If the Court finds those facts are established, Applicant shall thereupon have the burden of proof to show: (a) that the petitioner is not injured, or (b) that any modification sought by the petitioner is not required to avoid injury to the petitioner, or (c) that any term or condition proposed by Applicant in response to the petition does avoid injury to the petitioner. The Division of Water Resources as a petitioner shall be entitled to assert injury to the vested water rights of others. If no such petition is filed within such period and the retained jurisdiction period is not extended by the Court in accordance with the revisions of the statute, this matter shall become final under its own terms. The Court also retains continuing jurisdiction for the purpose of determining whether the continued reservation of the nontributary Denver Basin water rights in the Denver, Arapahoe, and Laramie-Fox Hills aquifers, more particularly described in Paragraph 28.B., above, for augmentation use hereunder is required and retained jurisdiction for such purpose shall be perpetual. After notice to all objectors, if Applicant can demonstrate to the Court that post-pumping depletions need no longer be replaced and/or are non-injurious, the Court may remove the requirement that the nontributary groundwater must continue to be reserved.

58. Pursuant to C.R.S. §37-92-304(6), the Court shall retain continuing jurisdiction over the plan for augmentation decreed herein for reconsideration of the question of whether the provisions of this decree are necessary and/or sufficient to prevent injury to vested water rights of others, as pertains to the use of Denver Basin groundwater supplies adjudicated herein for augmentation purposes. The Court also retains continuing jurisdiction for the purpose of determining compliance with the terms of the augmentation plan. The Court further retains jurisdiction should the Applicant later seek to amend this decree by seeking to prove that post-pumping depletions are noninjurious, that the extent of replacement for post-pumping matters addressed in Paragraph 28.B. The Court's retained jurisdiction may be invoked using the process set forth in Paragraph 57.

59. Pursuant to C.R.S. §37-92-502(5)(a), the Applicant shall install and maintain such water measurement devices and recording devices as are deemed necessary by the State Engineer or Division Engineers, and the same shall be installed and operated in accordance with instructions from said entities. Applicant is to install and maintain a totalizing flow meter on each well, or any additional or replacement wells associated therewith and are required to include geophysical logging on each well. Applicant shall read and record their well meter readings on April 1<sup>st</sup> and November 1<sup>st</sup> of each year and shall submit their meter readings to the Water Commissioner by April 15<sup>th</sup> and November 15<sup>th</sup> of each year or more frequently as requested by the Water Commissioner.

60. In compliance with Local Water Court Rule 9, the owner of a conditional water right shall:

Upon the sale or transfer of a conditional water right, the transferee Α. shall file with the Water court a notice of transfer which shall state:

- 1. The title and case number of the case in which the conditional decree was issued:
- 2. The description of the conditional water right transferred;
- The name of the transferor: 3.
- 4. The name and mailing address of the transferee; and
- A copy of the recorded deed. 5.

The transferor of any conditional water rights shall notify the clerk of Β. the water court having jurisdiction of any change in mailing address.

C. The clerk shall place any notice of transfer or change of address in the case file in which the conditional decree was entered and in the case file in which the court first made a finding of reasonable diligence.

As to the conditional water rights, pursuant to C.R.S. §37-92-301(4)(a), the 61. Applicant shall, every sixth year after the calendar year in which this conditional water right was decreed or subsequent diligence decreed or issued, if it desires to maintain the same, file an application for a finding of reasonable diligence or these conditional water rights shall be considered abandoned. Applicant shall, during the month of \_, and the year of 2028, file an application for a finding of reasonable March diligence herein, unless Applicant has, prior to that time, made application to make absolute the conditional water rights guaranteed herein.

This Ruling of Referee, when entered as a decree of the Water Court, shall 62. be recorded in the real property records of El Paso County, Colorado. Copies of this ruling shall be mailed as provided by statute.

DATED: March 2, 2022.

BY THE REFEREE:

Kate Brewer, Water Referee Water Division 2

# DECREE

THE COURT FINDS THAT NO PROTEST WAS MADE IN THIS MATTER, THEREFOR THE FORGOING RULING IS CONFIRMED AND APPROVED. AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated: March 4, 2022

Honorable Larry C. Schwartz Water Judge, Water Division 2 State of Colorado

#### EXHIBIT A – Legal Descriptions

#### Sterling Ranch Metropolitan District Nos. 1, 2 and 3 DATE FILED: January 24, 2022 11:58 AM

The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1f4 SW1/4 of Section 27; the E1/2 SE1/4 and that portion of the SW1/4 SE1/4 Jying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, that portion of the NE1/4 SE114 of said Section 32, Jying South and East of said County Road, and that portion of the SE1/4 SW1/4 SE1/4 of Section 32 beginning at the SE comer of the SE1/4 SW1/4 SE1/4, then northerly along the east line of the SE1/4 SW1/4 SE1/4 a distance of 495 feet to a point on Vollmer Road, then southwesterly along Vollmer Road 660 feet to a point on the south line, then easterly 495 feet to the point of beginning; the E1/2 and the E1/2 SW1/4 and the SW1/4 SW114 of Section 33, and all that part of the NW1/4 of said Section 33 lying South and East of the said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the El Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado. The NW1/4 of the NW1/4 of Section 4, Township 13 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado.

#### Bar X Land

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

#### SR Quarry Land

A TRACT OF LAND IN THE SOUTHWEST ONE-QUARTER AND THE SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER OF SECTION 32, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, IN EL PASO COUNTY, COLORADO, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 32; THENCE N89°23'57"E ALONG THE SOUTH LINE OF SECTION 32, 30.00 FEET TO POINT ON THE EASTERLY LINE OF BLACK FOREST ROAD, ACCORDING TO THE RESOLUTION ADOPTED BY THE BOARD OF COMMISSIONERS OF EL PASO COUNTY RECORDED IN ROAD BOOK A AT PAGE 78, WHICH POINT IS THE POINT OF BEGINNING; THENCE N00°02'19"W ALONG SAID EASTERLY LINE, 125.50 FEET TO A POINT ON THE SOUTH LINE OF THAT TRACT OF LAND DESCRIBED IN BOOK 3859 AT PAGE 151; THENCE ALONG THE BOUNDARY OF SAID TRACT FOR THE FOLLOWING FOUR (4) COURSES; (1) THENCE N89°23'57"E, 25.20 FEET; (2) THENCE N42°32'21"E, 664.79 FEET; (3) THENCE N01°44'16"W, 403.43 FEET; (4) THENCE N87°25'38"W, 463.51 FEET TO A POINT ON SAID EASTERLY LINE OF BLACK FOREST ROAD; THENCE N00°02'19"E ALONG SAID EASTERLY LINE, 124.08 FEET; THENCE N89°27'58"E. 2607.50 FEET; THENCE N00°00'40"W ALONG THE NORTH-SOUTH CENTERLINE OF SECTION 32, 152.93 FEET TO THE SOUTHWEST CORNER OF HOLIDAY HILLS NO. 1, ACCORDING TO THE PLAT RECORDED IN PLAT BOOK E2 AT PAGE 12; THENCE N89°31'30"E ALONG THE SOUTH LINE OF SAID HOLIDAY HILLS NO. 1, 1260.38 FEET; THENCE S00°33'58"E ALONG THE WESTERLY LINE OF GLIDER PORT ROAD, AS DEDICATED IN SAID HOLIDAY HILLS NO. 1, 741.29 FEET; THENCE \$37°18'25"W ALONG THE NORTHWESTERLY LINE OF VOLLMER ROAD, 721.56 FEET; THENCE S89°23'57"W ALONG THE SOUTH LINE OF SECTION 32, 3437.29 FEET TO THE POINT OF BEGINNING, COUNTY OF EL PASO, STATE OF COLORADO

#### **Retreat Land**

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE SOUTHWEST ONE-QUARTER OF SECTION 22, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

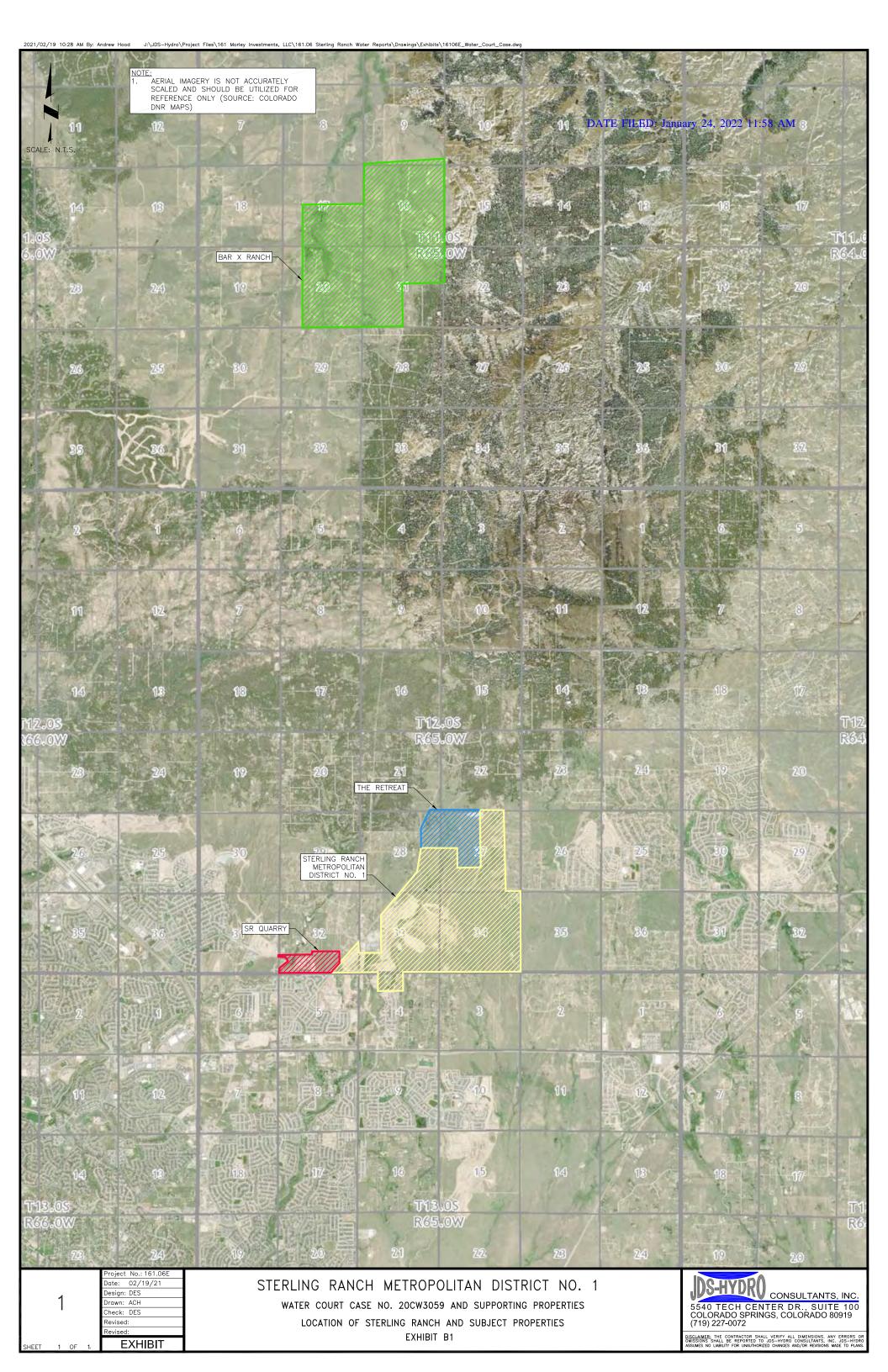
COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27; THENCE S88°38'56"W ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1047.88 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED; THENCE S88°38'56"W CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 283.03 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27 SAID POINT ALSO BEING A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER; THENCE ALONG THE EASTERLY AND NORTHERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

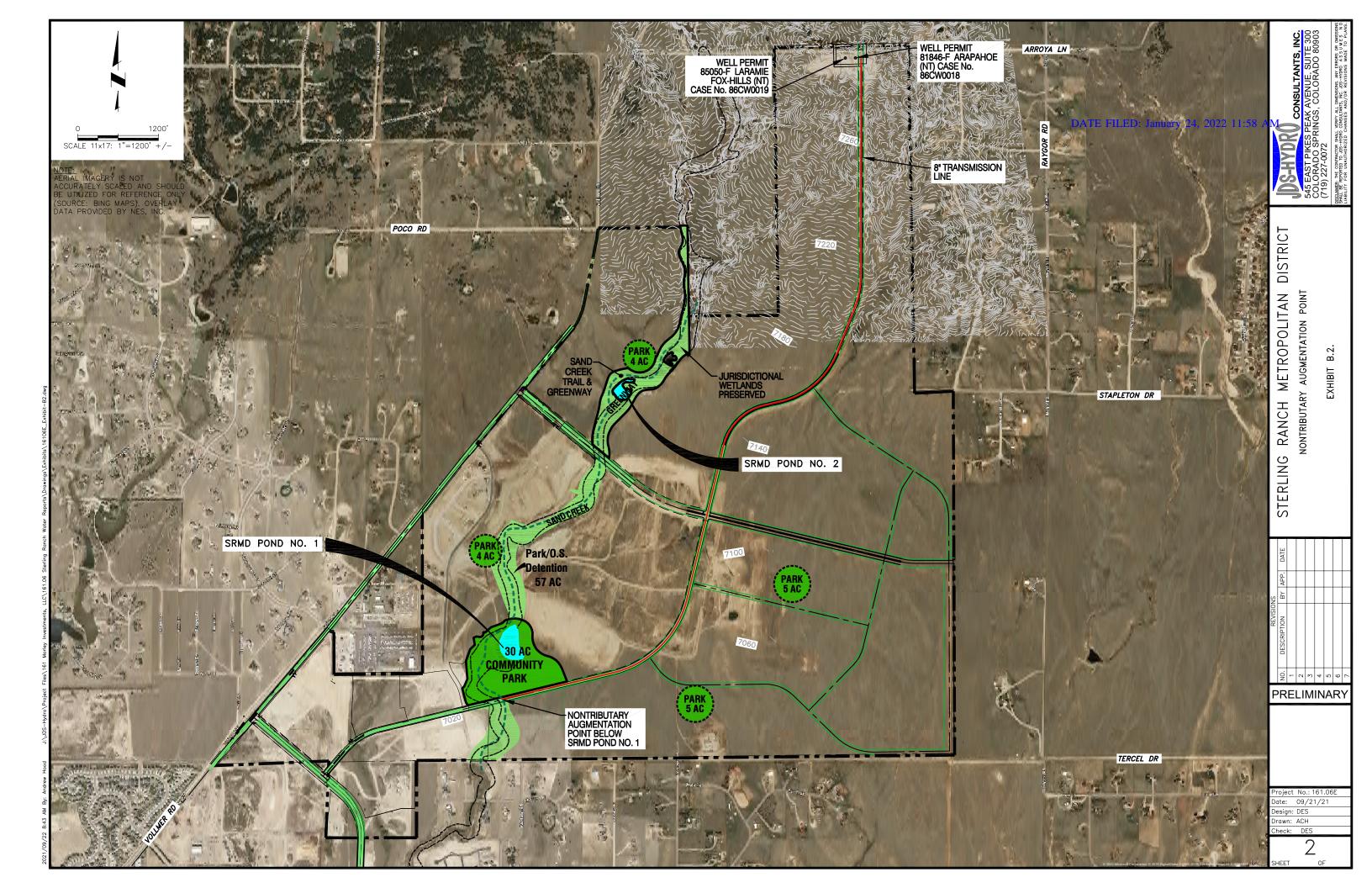
1.N00°37'14"W SAID LINE ALSO BEING THE WEST LINE OF THE SOUTHWEST ONE-QUARTER (SW1/4) OF SAID SECTION 22, A DISTANCE OF 30.00 FEET; 2.S89°40'23"W, A DISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THEEASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF SAID COUNTY RECORDS; THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1798.07 FEET; THENCE N59°58'50"E, A DISTANCE OF 694.83 FEET; THENCE S14°30'58"E, A DISTANCE OF 567.09 FEET; THENCE N69°36'18"E, A DISTANCE OF 603.87 FEET; THENCE S30°23'46"E, A DISTANCE OF 264.58 FEET; THENCE S61°52'38"W, A DISTANCE OF 227.40 FEET; THENCE S79°15'47"W, A DISTANCE OF 276.17 FEET; THENCE S89°39'18"W, A DISTANCE OF 356.07 FEET; THENCE S40°09'47"W, A DISTANCE OF 310.61 FEET; THENCE S09°56'46"W, A DISTANCE OF 270.03 FEET; THENCE S35°00'25"W, A DISTANCE OF 167.38 FEET; THENCE S57°24'01"W, A DISTANCE OF 235.36 FEET; THENCE S27°23'34"E, A DISTANCE OF 611.29 FEET TO THE POINT OF BEGINNING; SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 35.08 ACRES OF LAND, MORE OR LESS.

#### Along With:

A PARCEL OF LAND BEING THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (SW1/4 NW1/4) OF SECTION 27, THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SECTION 27, A PORTION OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER OF SECTION 28 AND A PORTION OF THE NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4) OF SECTION 28, ALL IN TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET; COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-OUARTER OF THE NORTHWEST ONE-OUARTER (NW1/4 NW1/4) OF SECTION 27, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED; THENCE S00°54'30"E ALONG THE EAST LINE OF THE WEST ONE-HALF (W1/2) OF SAID SECTION 27, A DISTANCE OF 3925.63 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST ONE-OUARTER OF THE SOUTHWEST ONE-QUARTER NW1/4 SW1/4) OF SAID SECTION 27; THENCE S87°35'00"W ALONG THE SOUTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1332.78 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4); THENCE N00°53'18"W ALONG THE WEST LINE OF SAID NORTHWEST ONE-OUARTER OF THE SOUTHWEST ONE-OUARTER (NW1/4 SW1/4), A DISTANCE OF 1316.78 FEET TO THE NORTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4); THENCE S89°08'28"W ALONG THE SOUTH LINE OF THE SOUTHEAST ONE-OUARTER OF THE NORTHEAST ONE-OUARTER (SE1/4 NE1/4) OF SECTION 28, A DISTANCE OF 1326.68 FEET TO THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4); THENCE N00°30'49"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-OUARTER OF THE NORTHEAST ONE-OUARTER (SE1/4 NE1/4), A DISTANCE OF 1270.77 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER; THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1450.84 FEET TO THE POINT OF INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY RECORDS; THENCE ALONG THE SOUTHERLY AND EASTERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES: 1. N89°40'23"E, A DISTANCE OF 761.52 FEET TO A POINT ON THE EAST LINE OF SAID NORTHEAST ONE-OUARTER OF THE NORTHEAST ONE-OUARTER (NE1/4 NE1/4); 2. N00°52'58"W ALONG SAID EAST LINE, A DISTANCE OF 30.00 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27; THENCE N88°38'56"E ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1330.91 FEET TO THE POINT OF BEGINNING; SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 190.89 ACRES OF LAND, MORE OR LESS.





prepared by: JDS-Hydro Consultants, Inc.

EXHIBIT C

ounting - SRMD Pond No. 1 and Pond No. 2

#### <u>No. 1</u>

Beginning of Day Staff Gauge Reading	ft
Beginning of Day Volume <sup>1</sup>	Acre-feet
End of Day Staff Gauge Reading	ft
End of Day Staff Volume <sup>1</sup>	Acre-feet
End of Day Gain / Loss in Volume (D-B)	ft

<u>No. 2</u>

Beginning of Day Staff Gauge Reading	 ft
Beginning of Day Volume <sup>2</sup>	Acre-feet
End of Day Staff Gauge Reading	 ft
End of Day Staff Volume <sup>2</sup>	Acre-feet
End of Day Gain / Loss in Volume (I-G)	ft

Total Volume Gain / Loss in Volume (E+J) Acre-feet
Is there a Free River? (yes / no)
Admin Number of Calling Right

Volume from SRMD Pond No. 1 Stage-Storage Table No. 1
 Volume from SRMD Pond No. 2 Stage-Storage Table No. 2

### DATE FILED: January 24, 2022 11:58 AM

# Sterling Ranch Metropolitan District Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan prepared by: JDS-Hydro Consultants, Inc.

Evaporation Accounting - SRMD Pond No. 1 and Pond No. 2

Date:

## SRMD Pond No. 1

- A) Beginning of Day Staff Gauge Reading
- B) Beginning of Day Surface Area<sup>1</sup>
- C) End of Day Staff Gauge Reading
- D) End of Day Staff Surface Area<sup>1</sup>
- E) End of Day Average Surface Area (D-B)
- F) Precipitation<sup>2</sup>
- G) Effective Precipitation (((F)\*0.7)/12)

I) Gross Lake Evaporation<sup>3</sup>

- J) Net Lake Evaporation (I-G)
- K) Daily Average Evaporation (J\*E)

## SRMD Pond No. 2

- L) Beginning of Day Staff Gauge Reading
- M) Beginning of Day Surface Area<sup>2</sup>
- N) End of Day Staff Gauge Reading
- O) End of Day Staff Surface Area<sup>2</sup>
- P) End of Day Average Surface Area (D-B)
- Q) Precipitation<sup>2</sup>
- R) Effective Precipitation (((Q)\*0.7)/12)
- S) Gross Lake Evaporation<sup>3</sup>
- T) Net Lake Evaporation (S-R)
- U) Daily Average Evaporation (T\*P)

## Summary

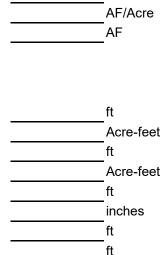
- V) Total Evaporation Volume (U+K) \_\_\_\_\_\_ Acre-feet
- W) Is there a Free River? (yes / no)

X) Admin Number of Calling Right

Note: 1) Volume from SRMD Pond No. 1 Stage-Surface Area Table No. 1

2) From Black Forest 6 WNW Weather Station

3) Monthly Gross Evaporation Rate from Table 3



ft

ft

ft

ft

ft

Acre-feet

Acre-feet

inches

AF/Acre

AF

2) Volume from SRMD Pond No. 2 Stage-Surface Area Table No. 2

# Sterling Ranch Metropolitan District Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan prepared by: JDS-Hydro Consultants, Inc.

Table 3 - Monthly Gross Evaporation Rates for SRMD

Month	% of Annual Evaporation % of Acres	Gross Lake Evaporation Rate - Feet
January	1.0%	0.039
February	3.0%	0.116
March	6.0%	0.233
April	9.0%	0.349
May	12.5%	0.484
June	15.5%	0.601
July	16.0%	0.620
August	13.0%	0.504
September	11.0%	0.426
October	7.5%	0.291
November	4.0%	0.155
December	1.5%	0.058
Total	1.0	3.875

# Sterling Ranch Metropolitan District Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan prepared by: JDS-Hydro Consultants, Inc.

# Well Pumping / Accounting - NT and NNT Wells

Date: \_\_\_\_\_

## Not-Nontributary Well Pumping

1) SR Quarry Denver Well No. 1

A) Meter Reading - Beginning of Day	gallons
B) Meter Reading - End of Day	gallons
C) Total gallons pumped (B-A)	gallons
D) Alluvial depletions (4%*C)	gallons
E) Alluvial deplations (D/325851)	AF
2) SR Quarry Arapahoe Well No. 1	
F) Meter Reading - Beginning of Day	gallons
G) Meter Reading - End of Day	gallons
H) Total gallons pumped (G-F)	gallons
<ol> <li>Alluvial depletions (4%*H)</li> </ol>	gallons
J) Alluvial deplations (I/325851)	AF

3) SRMD Well D-1

K) Meter Reading - Beginning of Day	gallons
L) Meter Reading - End of Day	gallons
M) Total gallons pumped (L-K)	gallons
N) Alluvial depletions (4%*N)	gallons
O) Alluvial deplations (N/325851)	AF

AF

P) Total alluvial depletions (E+J+O)

## Nontributary Well Pumping

4) SRMD Well A-1

Q) Meter Reading - Beginning of Day	gallons
R) Meter Reading - End of Day	gallons
S) Total gallons pumped (R-Q)	gallons
T) Total gallons pumped (S/325851)	AF

# 5) SRMD Well LFH-2

U) Meter Reading - Beginning of Day	gallons
V) Meter Reading - End of Day	gallons
W) Total gallons pumped (R-Q)	gallons
X) Total gallons pumped (S/325851)	AF
Y) Total NT pumped (T+X)	AF

# Sterling Ranch Metropolitan District Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan prepared by: JDS-Hydro Consultants, Inc.

Lawn Irrigation Return Flows (LIRF) Calculations

Date:

## LIRF Credit Calculations

A) Metered municipal irrigation use	gallons
B) Metered municipal irrigation use (A/325851)	AF
C) Estimated irrigation losses (B*0.735)	AF
D) Adjusted irrigation application (B-C)	AF
E) Fixed LIRF return flow rate	<u> </u>
F) Estiamted LIRF volume (D*E)	AF

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154/2021	_		1-			-		+ +	_											1 1		+ +		153	1					1			L
15/7/2021															⊨									153				_					
159(2021	_ T			ЬŦ		<u>+</u>	LF	<u> </u>			ĿГ				L-F	$\pm - \top$		ШF		<u>+</u> -7		±-T		153	±-					L			<u> </u>
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513/0001	_		-			-		-	_										1 1	1		1 1		153	-					1			-
s 1892021 515/2021																								159	4					1			
516/2021			_																					159						-			
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15262021	_		-						_	_					$\square$		_							159	-								-
5939001																								159						1			1
9282001 9282001			_																					53						1			
10160001	—T		+	++-T		+	+	<u>+</u> -T	+	+	+	+	+ - 7		⊢–T	-+T		++-	++-	+ - 7		$+$ $\mp$		153	+	— T				<u> </u>			<u> </u>
19270001							1 1	1 1				+ +					-		1 1	1 1		1 1		197	-								1
1489/021 526/0021																								159	4					1			
3362031			_																					153	1					-			
30.0021	— T		+	++-		+	+	+ T		+	++-	+	+ - 7		⊢–T	-+-T			++-	+ - 7		+ T		153	+	H				<u> </u>			<u> </u>
2/4/2021	_		_						_		+						_					+		159	-								-
3402021							1 1	1 1				+ +					-		1 1	1 1		1 1		157	4					1			1
(10021 (8/2021			_																					53						1			1
m 2021 16/2021	—T		+	++-T		+	+	<u>+</u> -T	+	+	+	+	+ - 7		⊢–T	-+-T		++-	++-	+ - 7		$+$ $\mp$		153	+	— T				<u> </u>			<u> </u>
110001			-				- 1-	1 1		1		+ +							+ 1-			1 1		153	-								
13/0021																				1 1				153									1
140001																								159	1					<u> </u>			
316/2021	-		_			_	1												+ +	1				159	-		_	-		1	-		1
3160001																								153									1
a ma2021 2/20/2021																				1 1				153									1
2210001	— T		+			+-	H-F	+ $ T$		_	+	+	+ - 7		⊢–T	-+-		++-	+	+ - 7		+ T		1 1		H T				+			<u> </u>
3/33/0031	-		1	$\square$		+		+ +	_	-	++				- 1		_	<u> </u>	+	+ 1		+		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4		_			-			-
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13/25/20021																								153 153 159									
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Stering Karch Metropottan District Case No. 20CH208 - Daily Accounting Summary Is prepared by JDS Hydro Consultants, Inc.

# EXHIBIT D

SR	MD Pond No. 1	Elevation-Are	ea-Capacity -	JDS-Hydro -	September 2021
a. 11 a				Capacity	
Staff Gage	Depth	Elevation	Area (ac)	(ac-ft)	
0	0.00	7028	0.000	0.000	Reservoir Bottom
2	2.00	7030	1.235	1.230	
4	4.00	7032	1.619	4.090	
6	6.00	7034	2.013	7.720	
8	8.00	7036	2.516	12.250	Spillway Crest / NWL
10	10.00	7038	3.612	17.390	
12	12.00	7040	4.676	24.600	Dam Crest
	Elevati	on-Area-Capa	city Interpol	-	Oth ft.
Staff Gauge	Depth	Elevation	Area (AC)	Capacity (AF)	Comments
0.00	0.00	7028.00	0.00	0.00	Reservoir Bottom
0.01	0.01	7028.01	0.006	0.006	
0.02	0.02	7028.02	0.012	0.012	
0.03	0.03	7028.03	0.018	0.018	
0.04	0.04	7028.04	0.025	0.025	
0.05	0.05	7028.05	0.031	0.031	
0.06	0.06	7028.06	0.037	0.037	
0.07	0.07	7028.07	0.043	0.043	
0.08	0.08	7028.08	0.049	0.049	
0.09	0.09	7028.09	0.055	0.055	
0.10	0.10	7028.10	0.062	0.062	
0.11	0.11	7028.11	0.068	0.068	
0.12	0.12	7028.12	0.074	0.074	
0.13	0.13	7028.13	0.080	0.080	
0.14	0.14	7028.14	0.086	0.086	
0.15	0.15	7028.15	0.092	0.092	
0.16	0.16	7028.16	0.098	0.098	
0.17	0.17	7028.17	0.105	0.105	
0.18	0.18	7028.18	0.111	0.111	
0.19	0.19	7028.19	0.117	0.117	
0.20	0.20	7028.20	0.123	0.123	
0.21	0.21	7028.21	0.129	0.129	
0.22	0.22	7028.22	0.135	0.135	
0.23	0.23	7028.23	0.141	0.141	
0.24	0.24	7028.24	0.148	0.148	
0.25	0.25	7028.25	0.154	0.154	
0.26	0.26	7028.26	0.160	0.160	
0.27	0.27	7028.27	0.166	0.166	
0.28	0.28	7028.28	0.172	0.172	
0.29	0.29	7028.29	0.178	0.178	
0.30	0.30	7028.30	0.185	0.185	
					1

SRM	MD Pond No. 2	Elevation-Are	ea-Capacity -	JDS-Hydro -	September 2021
Staff Gage	Depth	Elevation	Area (ac)	Capacity (ac-ft)	
0	0.00	DATE F	LE000Jar	uaoyood4,	ReservolirlBothornM
1	1.00	7115	0.031	0.020	
2	2.00	7116	0.662	0.360	
4	4.00	7118	1.015	2.040	
6	6.00	7120	1.233	4.290	Spillway Crest / NWL
8	8.00	7122	1.602	6.76	
10	10.00	7124	2.548	9.96	Dam Crest
	Elevat	ion-Area-Capa	city Interpol	ated to 1/10	0th ft.
Staff Gauge	Depth	Elevation	Area (AC)	Capacity (AF)	Comments
0.00	0.00	7114.00	0.000	0.000	Reservoir Bottom
0.01	0.01	7114.01	0.000	0.000	
0.02	0.02	7114.02	0.001	0.000	
0.03	0.03	7114.03	0.001	0.001	
0.04	0.04	7114.04	0.001	0.001	
0.05	0.05	7114.05	0.002	0.001	
0.06	0.06	7114.06	0.002	0.001	
0.07	0.07	7114.07	0.002	0.001	
0.08	0.08	7114.08	0.002	0.002	
0.09	0.09	7114.09	0.003	0.002	
0.10	0.10	7114.10	0.003	0.002	
0.11	0.11	7114.11	0.003	0.002	
0.12	0.12	7114.12	0.004	0.002	
0.13	0.13	7114.13	0.004	0.003	
0.14	0.14	7114.14	0.004	0.003	
0.15	0.15	7114.15	0.005	0.003	
0.16	0.16	7114.16	0.005	0.003	
0.17	0.17	7114.17	0.005	0.003	
0.17	0.17	7114.17	0.005	0.003	1
0.10	0.10	7114.10	0.005	0.004	<u> </u>
0.15	0.10	7114.10	0.006	0.004 0.004	
0.21	0.21	7114.21	0.006	0.004	
0.21	0.21	7114.21	0.007	0.004	
0.22	0.22	7114.22	0.007	0.004	
0.24 0.25	0.24	7114.24 7114.25	0.007	0.005	
0.26	0.26	7114.26	0.008	0.005	
0.27	0.27	7114.27	0.008	0.005	
0.28	0.28	7114.28	0.008	0.006	
0.29	0.29	7114.29	0.009	0.006	
0.30	0.30	7114.30	0.009	0.006	

0.31	0.31	7028.31	0.191	0.191	
0.32	0.32	7028.32	0.197	0.197	
0.33	0.33	7028.33	0.203	0.203	
0.34	0.34	7028.34	0.209	0.209	
0.35	0.35	7028.35	0.215	0.215	
0.36	0.36	7028.36	0.221	0.221	
0.37	0.37	7028.37	0.228	0.228	
0.38	0.38	7028.38	0.234	0.234	
0.39	0.39	7028.39	0.240	0.240	
0.40	0.40	7028.40	0.246	0.246	
0.41	0.41	7028.41	0.252	0.252	
0.42	0.42	7028.42	0.258	0.258	
0.43	0.43	7028.43	0.264	0.264	
0.44	0.44	7028.44	0.271	0.271	
0.45	0.45	7028.45	0.277	0.277	
0.46	0.46	7028.46	0.283	0.283	
0.47	0.47	7028.47	0.289	0.289	
0.48	0.48	7028.48	0.295	0.295	
0.49	0.49	7028.49	0.301	0.301	
0.50	0.50	7028.50	0.308	0.308	
0.51	0.51	7028.51	0.314	0.314	
0.52	0.52	7028.52	0.320	0.320	
0.53	0.53	7028.53	0.326	0.326	
0.54	0.54	7028.54	0.332	0.332	
0.55	0.55	7028.55	0.338	0.338	
0.56	0.56	7028.56	0.344	0.344	
0.57	0.57	7028.57	0.351	0.351	
0.58	0.58	7028.58	0.357	0.357	
0.59	0.59	7028.59	0.363	0.363	
0.60	0.60	7028.60	0.369	0.369	
0.61	0.61	7028.61	0.375	0.375	
0.62	0.62	7028.62	0.381	0.381	
0.63	0.63	7028.63	0.387	0.387	
0.64	0.64	7028.64	0.394	0.394	
0.65	0.65	7028.65	0.400	0.400	
0.66	0.66	7028.66	0.406	0.406	
0.67	0.67	7028.67	0.412	0.412	
0.68	0.68	7028.68	0.418	0.418	
0.69	0.69	7028.69	0.424	0.424	
0.70	0.70	7028.70	0.430	0.430	
0.71	0.71	7028.71	0.437	0.437	
0.72	0.72	7028.72	0.443	0.443	
0.73	0.73	7028.73	0.449	0.449	
0.74	0.74	7028.74	0.455	0.455	
0.75	0.75	7028.75	0.461	0.461	
0.76	0.76	7028.76	0.467	0.467	

		1			
0.31	0.31	7114.31	0.009	0.006	
0.32	0.32	7114.32	0.010	0.006	
0.33	0.33	7114.33	0.010	0.007	
0.34	0.34	7114.34	0.010	0.007	
0.35	0.35	7114.35	0.011	0.007	
0.36	0.36	7114.36	0.011	0.007	
0.37	0.37	7114.37	0.011	0.007	
0.38	0.38	7114.38	0.011	0.008	
0.39	0.39	7114.39	0.012	0.008	
0.40	0.40	7114.40	0.012	0.008	
0.41	0.41	7114.41	0.012	0.008	
0.42	0.42	7114.42	0.013	0.008	
0.43	0.43	7114.43	0.013	0.009	
0.44	0.44	7114.44	0.013	0.009	
0.45	0.45	7114.45	0.014	0.009	
0.46	0.46	7114.46	0.014	0.009	
0.47	0.47	7114.47	0.014	0.009	
0.48	0.48	7114.48	0.014	0.010	
0.49	0.49	7114.49	0.015	0.010	
0.50	0.50	7114.50	0.015	0.010	
0.51	0.51	7114.51	0.015	0.010	
0.52	0.52	7114.52	0.016	0.010	
0.53	0.53	7114.53	0.016	0.011	
0.54	0.54	7114.54	0.016	0.011	
0.55	0.55	7114.55	0.017	0.011	
0.56	0.56	7114.56	0.017	0.011	
0.57	0.57	7114.57	0.017	0.011	
0.58	0.58	7114.58	0.017	0.012	
0.59	0.59	7114.59	0.018	0.012	
0.60	0.60	7114.60	0.018	0.012	
0.61	0.61	7114.61	0.018	0.012	
0.62	0.62	7114.62	0.019	0.012	
0.63	0.63	7114.63	0.019	0.013	
0.64	0.64	7114.64	0.019	0.013	
0.65	0.65	7114.65	0.020	0.013	
0.66	0.66	7114.66	0.020	0.013	
0.67	0.67	7114.67	0.020	0.013	
0.68	0.68	7114.68	0.020	0.014	
0.69	0.69	7114.69	0.021	0.014	
0.70	0.70	7114.70	0.021	0.014	
0.71	0.71	7114.71	0.021	0.014	
		1			
0.72	0.72	7114.72	0.022	0.014	
		7114.72 7114.73	0.022	0.014	
0.72 0.73	0.72 0.73	7114.73	0.022	0.015	
0.72	0.72				

0.77	0.77	7028.77	0.474	0.474	
0.78	0.78	7028.78	0.480	0.480	
0.79	0.79	7028.79	0.486	0.486	
0.80	0.80	7028.80	0.492	0.492	
0.81	0.81	7028.81	0.498	0.498	
0.82	0.82	7028.82	0.504	0.504	
0.83	0.83	7028.83	0.510	0.510	
0.84	0.84	7028.84	0.517	0.517	
0.85	0.85	7028.85	0.523	0.523	
0.86	0.86	7028.86	0.529	0.529	
0.87	0.87	7028.87	0.535	0.535	
0.88	0.88	7028.88	0.541	0.541	
0.89	0.89	7028.89	0.547	0.547	
0.90	0.90	7028.90	0.553	0.553	
0.91	0.91	7028.91	0.560	0.560	
0.92	0.92	7028.92	0.566	0.566	
0.93	0.93	7028.93	0.572	0.572	
0.94	0.94	7028.94	0.578	0.578	
0.95	0.95	7028.95	0.584	0.584	
0.96	0.96	7028.96	0.590	0.590	
0.97	0.97	7028.97	0.597	0.597	
0.98	0.98	7028.98	0.603	0.603	
0.00	0.00	7000.00	0.000	0.000	
0.99	0.99	7028.99	0.609	0.609	
0.99 <b>1.00</b>	0.99 <b>1.00</b>	7028.99 7029.00	0.609 0.615	0.609 0.615	
1.00	1.00	7029.00	0.615	0.615	
<b>1.00</b> 1.01	<b>1.00</b> 1.01	<b>7029.00</b> 7029.01	<b>0.615</b> 0.621	<b>0.615</b> 0.621	
1.00 1.01 1.02	1.00 1.01 1.02	<b>7029.00</b> 7029.01 7029.02	0.615 0.621 0.627	0.615 0.621 0.627	
1.00 1.01 1.02 1.03	1.00 1.01 1.02 1.03	<b>7029.00</b> 7029.01 7029.02 7029.03	0.615 0.621 0.627 0.633	0.615 0.621 0.627 0.633	
1.00 1.01 1.02 1.03 1.04	1.00 1.01 1.02 1.03 1.04	7029.00 7029.01 7029.02 7029.03 7029.04	0.615 0.621 0.627 0.633 0.640	0.615 0.621 0.627 0.633 0.640	
1.00 1.01 1.02 1.03 1.04 1.05	1.00 1.01 1.02 1.03 1.04 1.05	7029.00 7029.01 7029.02 7029.03 7029.04 7029.05	0.615 0.621 0.627 0.633 0.640 0.646	0.615 0.621 0.627 0.633 0.640 0.646	
1.00 1.01 1.02 1.03 1.04 1.05 1.06	1.00 1.01 1.02 1.03 1.04 1.05 1.06	7029.00           7029.01           7029.02           7029.03           7029.04           7029.05           7029.06	0.615 0.621 0.627 0.633 0.640 0.640 0.652	0.615 0.621 0.627 0.633 0.640 0.640 0.652	
1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07	7029.00           7029.01           7029.02           7029.03           7029.04           7029.05           7029.06           7029.07	0.615 0.621 0.627 0.633 0.640 0.640 0.652 0.658	0.615 0.621 0.627 0.633 0.640 0.640 0.652 0.658	
1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08	7029.00           7029.01           7029.02           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08	0.615 0.621 0.627 0.633 0.640 0.646 0.652 0.658 0.664	0.615 0.621 0.627 0.633 0.640 0.646 0.652 0.658 0.664	
1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09	7029.00           7029.01           7029.02           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08           7029.09	0.615 0.621 0.627 0.633 0.640 0.646 0.652 0.658 0.664 0.670	0.615 0.621 0.627 0.633 0.640 0.646 0.652 0.658 0.664 0.670	
1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10	7029.00           7029.01           7029.02           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08           7029.09           7029.01	0.615 0.621 0.627 0.633 0.640 0.640 0.652 0.658 0.664 0.670 0.670	0.615 0.621 0.627 0.633 0.640 0.640 0.652 0.658 0.664 0.670 0.670	
1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11	7029.00           7029.01           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08           7029.09           7029.11	0.615 0.621 0.627 0.633 0.640 0.640 0.652 0.658 0.664 0.670 0.670 0.676 0.683	0.615 0.621 0.627 0.633 0.640 0.640 0.652 0.658 0.664 0.670 0.670 0.676 0.683	
1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.11           1.12           1.13           1.14	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.11 1.12 1.13 1.14	7029.00           7029.01           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08           7029.09           7029.11           7029.12           7029.13           7029.14	0.615           0.621           0.627           0.633           0.640           0.652           0.658           0.664           0.670           0.683           0.683           0.695           0.701	0.615           0.621           0.627           0.633           0.640           0.652           0.658           0.664           0.670           0.683           0.683           0.695           0.701	
1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.11           1.12           1.13	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13	7029.00           7029.01           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08           7029.09           7029.11           7029.12           7029.13	0.615 0.621 0.627 0.633 0.640 0.640 0.652 0.658 0.664 0.670 0.670 0.683 0.689 0.695	0.615 0.621 0.627 0.633 0.640 0.640 0.652 0.658 0.664 0.670 0.670 0.683 0.683 0.689 0.695	
1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.11           1.12           1.13           1.14	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.11 1.12 1.13 1.14	7029.00           7029.01           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08           7029.09           7029.11           7029.12           7029.13           7029.14	0.615           0.621           0.627           0.633           0.640           0.652           0.658           0.664           0.670           0.683           0.683           0.695           0.701	0.615           0.621           0.627           0.633           0.640           0.652           0.658           0.664           0.670           0.683           0.683           0.695           0.701	
1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.10           1.11           1.12           1.13           1.14           1.15           1.16           1.17	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14 1.15 1.16 1.17	7029.00           7029.01           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08           7029.09           7029.10           7029.11           7029.12           7029.13           7029.14           7029.15           7029.16           7029.17	0.615 0.621 0.627 0.633 0.640 0.646 0.652 0.658 0.664 0.670 0.670 0.676 0.683 0.689 0.695 0.701 0.707 0.713 0.720	0.615 0.621 0.627 0.633 0.640 0.646 0.652 0.658 0.664 0.670 0.670 0.676 0.683 0.689 0.695 0.701 0.707 0.713 0.720	
1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.11           1.12           1.13           1.14           1.15           1.16           1.17           1.18	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14 1.15 1.16 1.17 1.18	7029.00           7029.01           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08           7029.09           7029.10           7029.11           7029.12           7029.13           7029.14           7029.15           7029.16           7029.17           7029.18	0.615 0.621 0.627 0.633 0.640 0.646 0.652 0.658 0.664 0.670 0.670 0.676 0.683 0.683 0.689 0.695 0.701 0.707 0.713 0.720 0.726	0.615 0.621 0.627 0.633 0.640 0.646 0.652 0.658 0.664 0.670 0.670 0.676 0.683 0.683 0.689 0.695 0.701 0.707 0.713 0.720 0.726	
1.00         1.01         1.02         1.03         1.04         1.05         1.06         1.07         1.08         1.09         1.11         1.12         1.13         1.14         1.15         1.16         1.17         1.18         1.19	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14 1.15 1.16 1.17 1.18 1.19	7029.00           7029.01           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08           7029.09           7029.10           7029.12           7029.13           7029.14           7029.15           7029.16           7029.17           7029.18           7029.19	0.615           0.621           0.627           0.633           0.640           0.652           0.658           0.664           0.670           0.683           0.683           0.695           0.701           0.713           0.720           0.732	0.615 0.621 0.627 0.633 0.640 0.646 0.652 0.658 0.664 0.670 0.670 0.676 0.683 0.689 0.695 0.701 0.701 0.713 0.720 0.726 0.732	
1.00         1.01         1.02         1.03         1.04         1.05         1.06         1.07         1.08         1.09         1.10         1.11         1.12         1.13         1.14         1.15         1.16         1.17         1.18         1.19         1.20	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14 1.15 1.16 1.17 1.18 1.19 1.20	7029.00         7029.01         7029.03         7029.04         7029.05         7029.06         7029.07         7029.08         7029.09         7029.10         7029.12         7029.13         7029.14         7029.15         7029.18         7029.19         7029.19	0.615 0.621 0.627 0.633 0.640 0.652 0.658 0.664 0.670 0.670 0.676 0.683 0.689 0.695 0.701 0.701 0.713 0.720 0.726 0.732 0.738	0.615 0.621 0.627 0.633 0.640 0.652 0.658 0.664 0.670 0.670 0.676 0.683 0.689 0.695 0.701 0.701 0.713 0.720 0.726 0.732 0.738	
1.00         1.01         1.02         1.03         1.04         1.05         1.06         1.07         1.08         1.09         1.11         1.12         1.13         1.14         1.15         1.16         1.17         1.18         1.19	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14 1.15 1.16 1.17 1.18 1.19	7029.00           7029.01           7029.03           7029.04           7029.05           7029.06           7029.07           7029.08           7029.09           7029.10           7029.12           7029.13           7029.14           7029.15           7029.16           7029.17           7029.18           7029.19	0.615           0.621           0.627           0.633           0.640           0.652           0.658           0.664           0.670           0.683           0.683           0.695           0.701           0.713           0.720           0.732	0.615 0.621 0.627 0.633 0.640 0.646 0.652 0.658 0.664 0.670 0.670 0.676 0.683 0.689 0.695 0.701 0.701 0.713 0.720 0.726 0.732	

0.77         0.77         7114.77         0.023         0.015           0.78         0.78         7114.78         0.023         0.016           0.79         0.79         7114.79         0.024         0.016           0.80         0.80         7114.80         0.024         0.016           0.81         0.81         7114.81         0.025         0.016           0.82         0.82         7114.83         0.025         0.017           0.84         0.84         7114.83         0.026         0.017           0.85         0.85         7114.86         0.026         0.017           0.86         0.86         7114.86         0.026         0.017           0.87         0.87         7114.87         0.026         0.017           0.88         0.88         7114.86         0.027         0.018           0.90         0.90         7114.90         0.027         0.018           0.91         0.91         7114.93         0.028         0.019           0.92         0.92         7114.93         0.028         0.019           0.94         0.94         7114.94         0.029         0.019           0.95					-	
0.79 $0.79$ $7114.79$ $0.024$ $0.016$ $0.80$ $0.80$ $7114.81$ $0.024$ $0.016$ $0.81$ $0.81$ $7114.82$ $0.025$ $0.016$ $0.82$ $0.82$ $7114.82$ $0.025$ $0.017$ $0.84$ $0.84$ $7114.84$ $0.026$ $0.017$ $0.85$ $0.85$ $7114.86$ $0.026$ $0.017$ $0.86$ $0.86$ $7114.86$ $0.026$ $0.017$ $0.86$ $0.86$ $7114.87$ $0.026$ $0.017$ $0.88$ $0.88$ $7114.88$ $0.027$ $0.018$ $0.90$ $7114.90$ $0.027$ $0.018$ $0.91$ $0.91$ $7114.92$ $0.028$ $0.019$ $0.92$ $0.92$ $7114.92$ $0.028$ $0.019$ $0.94$ $7114.92$ $0.028$ $0.019$ $0.94$ $7114.95$ $0.029$ $0.019$ $0.95$ $0.95$ $7114.97$ $0.$	0.77	0.77	7114.77	0.023	0.015	
0.80 $0.81$ $7114.80$ $0.024$ $0.016$ $0.81$ $0.81$ $7114.81$ $0.025$ $0.016$ $0.82$ $0.83$ $7114.83$ $0.025$ $0.017$ $0.84$ $0.84$ $7114.83$ $0.025$ $0.017$ $0.85$ $0.85$ $7114.85$ $0.026$ $0.017$ $0.86$ $0.86$ $7114.87$ $0.026$ $0.017$ $0.87$ $0.87$ $7114.87$ $0.026$ $0.018$ $0.88$ $0.88$ $7114.87$ $0.027$ $0.018$ $0.90$ $0.907$ $7114.92$ $0.028$ $0.018$ $0.91$ $0.914$ $0.027$ $0.018$ $0.91$ $0.92$ $0.92$ $7114.92$ $0.028$ $0.019$ $0.93$ $0.93$ $7114.93$ $0.029$ $0.019$ $0.94$ $0.94$ $7114.95$ $0.029$ $0.019$ $0.95$ $7114.95$ $0.029$ $0.019$ $0.96$ $0.96$ <	0.78	0.78	7114.78	0.023	0.016	
0.81 $0.81$ $7114.81$ $0.024$ $0.016$ $0.82$ $0.82$ $7114.82$ $0.025$ $0.016$ $0.83$ $0.84$ $7114.84$ $0.025$ $0.017$ $0.84$ $0.84$ $7114.84$ $0.025$ $0.017$ $0.85$ $0.85$ $7114.87$ $0.026$ $0.017$ $0.87$ $0.87$ $7114.87$ $0.026$ $0.017$ $0.88$ $0.88$ $7114.88$ $0.026$ $0.018$ $0.89$ $0.89$ $7114.97$ $0.027$ $0.018$ $0.90$ $0.91$ $7114.92$ $0.028$ $0.018$ $0.91$ $0.91$ $7114.92$ $0.028$ $0.019$ $0.92$ $914$ $90.28$ $0.019$ $0.91$ $0.92$ $914$ $7114.92$ $0.028$ $0.019$ $0.95$ $0.95$ $7114.96$ $0.029$ $0.019$ $0.96$ $7114.96$ $0.029$ $0.019$ $0.97$ $0.97$	0.79	0.79	7114.79	0.024	0.016	
0.82         0.82         7114.82         0.025         0.016           0.83         0.83         7114.83         0.025         0.017           0.84         0.84         7114.85         0.026         0.017           0.85         0.85         7114.85         0.026         0.017           0.86         0.86         7114.87         0.026         0.017           0.87         0.87         7114.88         0.026         0.017           0.88         0.88         7114.89         0.027         0.018           0.89         0.89         7114.90         0.027         0.018           0.90         7114.90         0.027         0.018           0.91         0.91         7114.92         0.028         0.019           0.92         0.92         7114.92         0.028         0.019           0.93         0.93         7114.94         0.029         0.019           0.94         0.94         7114.95         0.029         0.019           0.95         0.96         7114.96         0.020         0.020           0.99         0.99         7114.97         0.020         0.020           0.99         7114.98	0.80	0.80	7114.80	0.024	0.016	
0.83         0.83         7114.83         0.025         0.017           0.84         0.84         7114.85         0.026         0.017           0.85         0.85         7114.85         0.026         0.017           0.86         0.86         7114.87         0.026         0.017           0.87         0.87         7114.87         0.026         0.017           0.88         0.88         7114.89         0.026         0.018           0.89         0.89         7114.90         0.027         0.018           0.90         0.90         7114.90         0.027         0.018           0.91         0.91         7114.90         0.028         0.019           0.92         0.92         7114.90         0.028         0.019           0.92         0.92         7114.95         0.029         0.019           0.94         0.94         7114.95         0.029         0.019           0.95         0.95         7114.96         0.029         0.019           0.96         0.96         7114.96         0.029         0.020           0.97         0.97         714.98         0.020         0.020           0.98	0.81	0.81	7114.81	0.024	0.016	
0.84         0.84         7114.84         0.025         0.017           0.85         0.85         7114.85         0.026         0.017           0.86         0.86         7114.87         0.026         0.017           0.87         0.87         7114.87         0.026         0.017           0.88         0.88         7114.89         0.026         0.018           0.89         0.89         7114.89         0.027         0.018           0.90         0.90         7114.91         0.027         0.018           0.91         0.91         7114.92         0.028         0.019           0.92         0.92         7114.92         0.028         0.019           0.93         0.93         7114.92         0.028         0.019           0.94         0.94         7114.92         0.028         0.019           0.95         0.95         7114.95         0.029         0.019           0.96         0.96         7114.96         0.029         0.019           0.97         7114.97         0.029         0.019           0.98         0.98         7114.98         0.020         0.020           0.99         0.99	0.82	0.82	7114.82	0.025	0.016	
0.85 $0.85$ $7114.85$ $0.026$ $0.017$ $0.86$ $0.87$ $7114.87$ $0.026$ $0.017$ $0.88$ $0.87$ $7114.86$ $0.026$ $0.017$ $0.88$ $0.88$ $7114.89$ $0.027$ $0.018$ $0.89$ $0.89$ $7114.90$ $0.027$ $0.018$ $0.90$ $0.90$ $7114.90$ $0.027$ $0.018$ $0.91$ $0.91$ $7114.90$ $0.027$ $0.018$ $0.92$ $0.92$ $7114.92$ $0.028$ $0.019$ $0.92$ $0.92$ $7114.94$ $0.028$ $0.019$ $0.94$ $0.94$ $7114.94$ $0.028$ $0.019$ $0.95$ $0.95$ $7114.95$ $0.029$ $0.019$ $0.96$ $0.96$ $7114.96$ $0.029$ $0.019$ $0.98$ $0.98$ $7114.99$ $0.030$ $0.020$ $0.99$ $0.99$ $7114.99$ $0.030$ $0.026$ $1.00$	0.83	0.83	7114.83	0.025	0.017	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0.84	0.84	7114.84	0.025	0.017	
0.87 $0.87$ $7114.87$ $0.026$ $0.017$ $0.88$ $0.88$ $7114.88$ $0.027$ $0.018$ $0.90$ $0.90$ $7114.90$ $0.027$ $0.018$ $0.91$ $0.91$ $7114.91$ $0.027$ $0.018$ $0.92$ $0.92$ $7114.92$ $0.028$ $0.019$ $0.93$ $0.93$ $7114.92$ $0.028$ $0.019$ $0.94$ $0.94$ $7114.93$ $0.028$ $0.019$ $0.95$ $0.95$ $7114.95$ $0.029$ $0.019$ $0.96$ $0.96$ $7114.97$ $0.029$ $0.019$ $0.96$ $0.96$ $7114.97$ $0.029$ $0.019$ $0.98$ $0.98$ $7114.99$ $0.030$ $0.020$ $0.99$ $0.99$ $7114.97$ $0.029$ $0.020$ $1.00$ $1.00$ $7115.00$ $0.030$ $0.020$ $1.00$ $1.00$ $7115.02$ $0.043$ $0.026$ $1.03$	0.85	0.85	7114.85	0.026	0.017	
0.88 $0.89$ $7114.88$ $0.026$ $0.018$ $0.90$ $0.90$ $7114.90$ $0.027$ $0.018$ $0.91$ $0.91$ $7114.91$ $0.027$ $0.018$ $0.92$ $0.92$ $7114.92$ $0.028$ $0.018$ $0.92$ $0.92$ $7114.92$ $0.028$ $0.019$ $0.93$ $0.93$ $7114.93$ $0.028$ $0.019$ $0.94$ $0.94$ $7114.93$ $0.029$ $0.019$ $0.95$ $0.95$ $7114.95$ $0.029$ $0.019$ $0.96$ $0.96$ $7114.97$ $0.029$ $0.019$ $0.97$ $0.97$ $7114.98$ $0.029$ $0.019$ $0.98$ $0.98$ $7114.99$ $0.030$ $0.020$ $0.99$ $0.99$ $7114.99$ $0.030$ $0.020$ $1.00$ $1.00$ $7115.00$ $0.030$ $0.020$ $1.01$ $1.01$ $7115.03$ $0.043$ $0.026$ $1.03$	0.86	0.86	7114.86	0.026	0.017	
0.89 $0.89$ $7114.89$ $0.027$ $0.018$ $0.90$ $0.91$ $7114.91$ $0.027$ $0.018$ $0.92$ $0.92$ $7114.92$ $0.028$ $0.018$ $0.93$ $0.92$ $7114.92$ $0.028$ $0.018$ $0.93$ $0.92$ $7114.94$ $0.028$ $0.019$ $0.94$ $0.94$ $7114.94$ $0.029$ $0.019$ $0.95$ $0.95$ $7114.97$ $0.029$ $0.019$ $0.96$ $0.96$ $7114.97$ $0.029$ $0.019$ $0.97$ $0.97$ $7114.97$ $0.029$ $0.019$ $0.98$ $0.98$ $7114.98$ $0.029$ $0.020$ $0.99$ $0.99$ $7114.97$ $0.029$ $0.020$ $0.99$ $0.99$ $7114.98$ $0.029$ $0.020$ $1.00$ $1.00$ $7115.00$ $0.030$ $0.020$ $1.01$ $1.01$ $7115.00$ $0.043$ $0.026$ $1.02$	0.87	0.87	7114.87	0.026	0.017	
0.90         0.90         7114.90         0.027         0.018           0.91         0.91         7114.91         0.027         0.018           0.92         0.92         7114.92         0.028         0.018           0.93         0.93         7114.93         0.028         0.019           0.94         0.94         7114.94         0.028         0.019           0.95         0.95         7114.95         0.029         0.019           0.96         0.96         7114.96         0.029         0.019           0.96         0.96         7114.97         0.029         0.019           0.97         0.97         7114.98         0.029         0.020           0.98         0.98         7114.99         0.030         0.020           0.99         0.99         7115.00         0.030         0.020           1.00         1.00         7115.01         0.036         0.023           1.01         1.01         7115.02         0.043         0.026           1.03         1.03         7115.03         0.049         0.029           1.04         1.04         7115.04         0.055         0.032           1.05	0.88	0.88	7114.88	0.026	0.018	
0.91 $0.91$ $7114.91$ $0.027$ $0.018$ $0.92$ $0.92$ $7114.92$ $0.028$ $0.018$ $0.93$ $0.93$ $7114.94$ $0.028$ $0.019$ $0.94$ $0.94$ $7114.94$ $0.028$ $0.019$ $0.95$ $0.95$ $7114.95$ $0.029$ $0.019$ $0.96$ $0.96$ $7114.97$ $0.029$ $0.019$ $0.97$ $0.97$ $7114.97$ $0.029$ $0.019$ $0.98$ $0.98$ $7114.98$ $0.029$ $0.020$ $0.99$ $0.99$ $7114.99$ $0.030$ $0.020$ $1.00$ $1.00$ $7115.00$ $0.030$ $0.020$ $1.01$ $1.01$ $7115.00$ $0.036$ $0.023$ $1.02$ $1.02$ $7115.02$ $0.043$ $0.026$ $1.03$ $1.03$ $7115.03$ $0.049$ $0.029$ $1.04$ $1.04$ $7115.04$ $0.055$ $0.032$ $1.05$ $1.05$ $7115.05$ $0.061$ $0.035$ $1.06$ $1.06$ $7115.06$ $0.068$ $0.038$ $1.07$ $1.07$ $7115.07$ $0.074$ $0.041$ $1.08$ $1.08$ $7115.08$ $0.080$ $0.044$ $1.09$ $1.09$ $7115.10$ $0.093$ $0.050$ $1.11$ $1.11$ $7115.10$ $0.099$ $0.053$ $1.12$ $1.12$ $7115.12$ $0.166$ $0.056$ $1.13$ $1.13$ $7115.15$ $0.124$ $0.065$ $1.14$ $1.14$ $7115.15$ $0.124$ $0.065$	0.89	0.89	7114.89	0.027	0.018	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0.90	0.90	7114.90	0.027	0.018	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0.91	0.91	7114.91	0.027	0.018	
0.94 $0.94$ $7114.94$ $0.028$ $0.019$ $0.95$ $0.95$ $7114.95$ $0.029$ $0.019$ $0.96$ $0.96$ $7114.97$ $0.029$ $0.019$ $0.97$ $0.97$ $7114.97$ $0.029$ $0.019$ $0.98$ $0.98$ $7114.98$ $0.029$ $0.020$ $0.99$ $0.99$ $7114.99$ $0.030$ $0.020$ $1.00$ $1.00$ $7115.00$ $0.030$ $0.020$ $1.01$ $1.01$ $7115.02$ $0.043$ $0.026$ $1.02$ $1.02$ $7115.02$ $0.043$ $0.026$ $1.03$ $1.03$ $7115.03$ $0.049$ $0.299$ $1.04$ $1.04$ $7115.04$ $0.055$ $0.032$ $1.05$ $1.05$ $7115.06$ $0.068$ $0.038$ $1.07$ $1.07$ $7115.07$ $0.074$ $0.041$ $1.08$ $1.08$ $7115.08$ $0.080$ $0.044$ $1.09$ $1.09$ $7115.09$ $0.087$ $0.047$ $1.11$ $1.10$ $7115.10$ $0.093$ $0.050$ $1.11$ $1.10$ $7115.10$ $0.099$ $0.053$ $1.12$ $1.12$ $7115.12$ $0.106$ $0.056$ $1.13$ $1.13$ $7115.15$ $0.124$ $0.065$ $1.14$ $1.14$ $7115.16$ $0.131$ $0.068$ $1.17$ $1.17$ $7115.19$ $0.137$ $0.071$ $1.18$ $1.18$ $7115.20$ $0.156$ $0.083$ $1.19$ $1.19$ $7115.20$ $0.162$ $0.083$	0.92	0.92	7114.92	0.028	0.018	
0.95 $0.95$ $7114.95$ $0.029$ $0.019$ $0.96$ $0.96$ $7114.96$ $0.029$ $0.019$ $0.97$ $0.97$ $7114.97$ $0.029$ $0.019$ $0.98$ $0.98$ $7114.98$ $0.029$ $0.020$ $0.99$ $0.99$ $7114.99$ $0.030$ $0.020$ $1.00$ $1.00$ $7115.00$ $0.030$ $0.020$ $1.01$ $1.01$ $7115.01$ $0.036$ $0.023$ $1.02$ $1.02$ $7115.02$ $0.043$ $0.026$ $1.03$ $1.03$ $7115.03$ $0.049$ $0.029$ $1.04$ $1.04$ $7115.03$ $0.049$ $0.029$ $1.05$ $1.05$ $7115.05$ $0.061$ $0.035$ $1.06$ $1.06$ $7115.06$ $0.068$ $0.038$ $1.07$ $1.07$ $7115.07$ $0.074$ $0.041$ $1.08$ $1.08$ $7115.08$ $0.080$ $0.044$ $1.09$ $1.09$ $7115.09$ $0.087$ $0.047$ $1.11$ $1.10$ $7115.10$ $0.093$ $0.050$ $1.11$ $1.10$ $7115.10$ $0.093$ $0.056$ $1.12$ $1.12$ $7115.12$ $0.106$ $0.055$ $1.13$ $1.13$ $7115.15$ $0.124$ $0.065$ $1.14$ $1.14$ $7115.16$ $0.131$ $0.068$ $1.15$ $1.15$ $7115.16$ $0.131$ $0.068$ $1.14$ $1.18$ $7115.19$ $0.143$ $0.071$ $1.18$ $1.18$ $7115.19$ $0.150$ $0.077$	0.93	0.93	7114.93	0.028	0.019	
0.96         0.96         7114.96         0.029         0.019           0.97         0.97         7114.97         0.029         0.019           0.98         0.98         7114.98         0.029         0.020           0.99         0.99         7114.99         0.030         0.020           1.00         1.00         7115.00         0.030         0.020           1.01         1.01         7115.01         0.036         0.023           1.02         1.02         7115.02         0.043         0.026           1.03         1.03         7115.03         0.049         0.029           1.04         1.04         7115.05         0.061         0.035           1.05         1.05         7115.05         0.061         0.035           1.06         1.06         7115.06         0.068         0.038           1.07         1.07         7115.07         0.074         0.041           1.08         1.08         7115.08         0.080         0.044           1.09         1.09         7115.00         0.093         0.050           1.11         1.11         7115.10         0.099         0.053           1.12	0.94	0.94	7114.94	0.028	0.019	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0.95	0.95	7114.95	0.029	0.019	
0.98         0.98         7114.98         0.029         0.020           0.99         0.99         7114.99         0.030         0.020           1.00         1.00         7115.00         0.030         0.020           1.01         1.01         7115.01         0.036         0.023           1.02         1.02         7115.02         0.043         0.026           1.03         1.03         7115.03         0.049         0.029           1.04         1.04         7115.04         0.055         0.032           1.05         1.05         7115.05         0.061         0.035           1.06         1.06         7115.06         0.068         0.038           1.07         1.07         7115.07         0.074         0.041           1.08         1.08         7115.09         0.087         0.047           1.09         1.09         7115.00         0.093         0.050           1.11         1.11         7115.10         0.099         0.053           1.12         1.12         7115.10         0.059         1.14           1.14         1.14         7115.14         0.118         0.062           1.14	0.96	0.96	7114.96	0.029	0.019	
0.99         0.99         7114.99         0.030         0.020           1.00         1.00         7115.00         0.030         0.020           1.01         1.01         7115.01         0.036         0.023           1.02         1.02         7115.02         0.043         0.026           1.03         1.03         7115.03         0.049         0.029           1.04         1.04         7115.05         0.061         0.035           1.05         1.05         7115.05         0.061         0.035           1.06         1.06         7115.06         0.068         0.038           1.07         1.07         7115.07         0.074         0.041           1.08         1.08         7115.08         0.080         0.044           1.09         1.09         7115.09         0.087         0.047           1.08         1.08         7115.09         0.087         0.047           1.10         1.10         7115.10         0.093         0.050           1.11         1.11         7115.11         0.099         0.053           1.12         1.12         7115.12         0.106         0.056           1.13	0.97	0.97	7114.97	0.029	0.019	
1.00         1.00         7115.00         0.030         0.020           1.01         1.01         7115.01         0.036         0.023           1.02         1.02         7115.02         0.043         0.026           1.03         1.03         7115.03         0.049         0.029           1.04         1.04         7115.05         0.061         0.035           1.05         1.05         7115.05         0.061         0.035           1.06         1.06         7115.06         0.068         0.038           1.06         1.06         7115.07         0.074         0.041           1.08         1.08         7115.09         0.087         0.047           1.09         1.09         7115.00         0.093         0.050           1.11         1.10         7115.10         0.093         0.050           1.11         1.11         7115.10         0.099         0.053           1.12         1.12         7115.10         0.106         0.056           1.13         1.13         7115.13         0.112         0.059           1.14         1.14         7115.15         0.124         0.065           1.16	0.98	0.98	7114.98	0.029	0.020	
1.01 $1.01$ $7115.01$ $0.036$ $0.023$ $1.02$ $1.02$ $7115.02$ $0.043$ $0.026$ $1.03$ $1.03$ $7115.03$ $0.049$ $0.029$ $1.04$ $1.04$ $7115.04$ $0.055$ $0.032$ $1.05$ $1.05$ $7115.05$ $0.061$ $0.035$ $1.06$ $1.06$ $7115.06$ $0.068$ $0.038$ $1.07$ $1.07$ $7115.07$ $0.074$ $0.041$ $1.08$ $1.08$ $7115.08$ $0.080$ $0.044$ $1.09$ $1.09$ $7115.09$ $0.087$ $0.047$ $1.10$ $1.10$ $7115.10$ $0.093$ $0.550$ $1.11$ $1.11$ $7115.12$ $0.106$ $0.056$ $1.12$ $1.12$ $7115.12$ $0.106$ $0.055$ $1.14$ $1.14$ $7115.14$ $0.118$ $0.062$ $1.15$ $1.15$ $7115.15$ $0.124$ $0.065$ $1.16$ $1.16$ $7115.16$ $0.131$ $0.068$ $1.17$ $1.17$ $7115.17$ $0.137$ $0.071$ $1.18$ $1.18$ $7115.18$ $0.143$ $0.074$ $1.19$ $1.19$ $7115.20$ $0.156$ $0.080$ $1.21$ $1.21$ $7115.21$ $0.162$ $0.083$	0.00	0.00	7444.00	0.020	0.020	
1.02 $1.02$ $7115.02$ $0.043$ $0.026$ $1.03$ $1.03$ $7115.03$ $0.049$ $0.029$ $1.04$ $1.04$ $7115.04$ $0.055$ $0.032$ $1.05$ $1.05$ $7115.05$ $0.061$ $0.035$ $1.06$ $1.06$ $7115.06$ $0.068$ $0.038$ $1.07$ $1.07$ $7115.07$ $0.074$ $0.041$ $1.08$ $1.08$ $7115.08$ $0.080$ $0.044$ $1.09$ $1.09$ $7115.09$ $0.087$ $0.047$ $1.10$ $1.10$ $7115.10$ $0.093$ $0.050$ $1.11$ $1.10$ $7115.10$ $0.099$ $0.053$ $1.12$ $1.12$ $7115.12$ $0.106$ $0.056$ $1.13$ $1.13$ $7115.13$ $0.112$ $0.059$ $1.14$ $1.14$ $7115.14$ $0.118$ $0.062$ $1.15$ $1.15$ $7115.15$ $0.124$ $0.065$ $1.16$ $1.16$ $7115.16$ $0.131$ $0.068$ $1.17$ $1.17$ $7115.17$ $0.137$ $0.071$ $1.18$ $1.18$ $7115.18$ $0.143$ $0.074$ $1.19$ $1.19$ $7115.20$ $0.156$ $0.080$ $1.21$ $1.21$ $7115.21$ $0.162$ $0.083$	0.99	0.99	/114.99	0.030	0.020	
1.03 $1.03$ $7115.03$ $0.049$ $0.029$ $1.04$ $1.04$ $7115.04$ $0.055$ $0.032$ $1.05$ $1.05$ $7115.05$ $0.061$ $0.035$ $1.06$ $1.06$ $7115.06$ $0.068$ $0.038$ $1.07$ $1.07$ $7115.07$ $0.074$ $0.041$ $1.08$ $1.08$ $7115.08$ $0.080$ $0.044$ $1.09$ $1.09$ $7115.09$ $0.087$ $0.047$ $1.10$ $1.10$ $7115.10$ $0.093$ $0.050$ $1.11$ $1.10$ $7115.10$ $0.099$ $0.053$ $1.12$ $1.12$ $7115.12$ $0.106$ $0.056$ $1.13$ $1.13$ $7115.13$ $0.112$ $0.059$ $1.14$ $1.14$ $7115.15$ $0.124$ $0.065$ $1.16$ $1.16$ $7115.16$ $0.131$ $0.068$ $1.17$ $1.17$ $7115.17$ $0.137$ $0.071$ $1.18$ $1.18$ $7115.19$ $0.143$ $0.074$ $1.19$ $1.19$ $7115.20$ $0.156$ $0.080$ $1.21$ $1.21$ $7115.21$ $0.162$ $0.083$						
1.04       1.04       7115.04       0.055       0.032         1.05       1.05       7115.05       0.061       0.035         1.06       1.06       7115.06       0.068       0.038         1.07       1.07       7115.07       0.074       0.041         1.08       1.08       7115.09       0.087       0.041         1.09       1.09       7115.09       0.087       0.047         1.10       1.10       7115.10       0.093       0.050         1.11       1.11       7115.11       0.099       0.053         1.12       1.12       7115.12       0.106       0.056         1.13       1.13       7115.13       0.112       0.059         1.14       1.14       7115.14       0.118       0.062         1.15       1.15       7115.15       0.124       0.065         1.16       1.16       7115.16       0.131       0.068         1.17       1.17       7115.17       0.137       0.071         1.18       1.18       7115.19       0.150       0.077         1.19       1.19       7115.20       0.156       0.080         1.21       1.21	1.00	1.00	7115.00	0.030	0.020	
1.05         1.05         7115.05         0.061         0.035           1.06         1.06         7115.06         0.068         0.038           1.07         1.07         7115.07         0.074         0.041           1.08         1.08         7115.08         0.080         0.044           1.09         1.09         7115.09         0.087         0.047           1.10         1.10         7115.10         0.093         0.050           1.11         1.11         7115.11         0.099         0.053           1.12         1.12         7115.12         0.106         0.056           1.13         1.13         7115.13         0.112         0.059           1.14         1.14         7115.14         0.118         0.062           1.15         1.15         7115.15         0.124         0.065           1.16         1.16         7115.17         0.131         0.068           1.17         1.17         7115.17         0.137         0.071           1.18         1.18         7115.18         0.143         0.074           1.19         1.19         7115.20         0.156         0.080           1.21	<b>1.00</b> 1.01	<b>1.00</b> 1.01	<b>7115.00</b> 7115.01	<b>0.030</b> 0.036	<b>0.020</b> 0.023	
1.06 $1.06$ $7115.06$ $0.068$ $0.038$ $1.07$ $1.07$ $7115.07$ $0.074$ $0.041$ $1.08$ $1.08$ $7115.08$ $0.080$ $0.044$ $1.09$ $1.09$ $7115.09$ $0.087$ $0.047$ $1.10$ $1.10$ $7115.10$ $0.093$ $0.050$ $1.11$ $1.10$ $7115.11$ $0.099$ $0.053$ $1.12$ $1.12$ $7115.12$ $0.106$ $0.056$ $1.13$ $1.13$ $7115.13$ $0.112$ $0.059$ $1.14$ $1.14$ $7115.14$ $0.118$ $0.062$ $1.15$ $1.15$ $7115.15$ $0.124$ $0.065$ $1.16$ $1.16$ $7115.16$ $0.131$ $0.068$ $1.17$ $1.17$ $7115.17$ $0.137$ $0.071$ $1.18$ $1.18$ $7115.19$ $0.150$ $0.077$ $1.20$ $1.20$ $7115.20$ $0.162$ $0.083$	1.00 1.01 1.02	1.00 1.01 1.02	<b>7115.00</b> 7115.01 7115.02	0.030 0.036 0.043	0.020 0.023 0.026	
1.07 $1.07$ $7115.07$ $0.074$ $0.041$ $1.08$ $1.08$ $7115.08$ $0.080$ $0.044$ $1.09$ $1.09$ $7115.09$ $0.087$ $0.047$ $1.10$ $1.10$ $7115.10$ $0.093$ $0.050$ $1.11$ $1.11$ $7115.11$ $0.099$ $0.053$ $1.12$ $1.12$ $7115.12$ $0.106$ $0.056$ $1.13$ $1.13$ $7115.13$ $0.112$ $0.059$ $1.14$ $1.14$ $7115.15$ $0.124$ $0.065$ $1.16$ $1.16$ $7115.16$ $0.131$ $0.068$ $1.17$ $1.17$ $7115.18$ $0.143$ $0.074$ $1.18$ $1.18$ $7115.19$ $0.150$ $0.077$ $1.20$ $1.20$ $7115.21$ $0.162$ $0.083$	1.00 1.01 1.02 1.03	1.00 1.01 1.02 1.03	<b>7115.00</b> 7115.01 7115.02 7115.03	0.030 0.036 0.043 0.049	0.020 0.023 0.026 0.029	
1.08 $1.08$ $7115.08$ $0.080$ $0.044$ $1.09$ $1.09$ $7115.09$ $0.087$ $0.047$ $1.10$ $1.10$ $7115.10$ $0.093$ $0.050$ $1.11$ $1.11$ $7115.11$ $0.099$ $0.053$ $1.12$ $1.12$ $7115.12$ $0.106$ $0.056$ $1.13$ $1.13$ $7115.13$ $0.112$ $0.059$ $1.14$ $1.14$ $7115.14$ $0.118$ $0.062$ $1.15$ $1.15$ $7115.15$ $0.124$ $0.065$ $1.16$ $1.16$ $7115.16$ $0.131$ $0.068$ $1.17$ $1.17$ $7115.17$ $0.137$ $0.071$ $1.18$ $1.18$ $7115.18$ $0.143$ $0.074$ $1.19$ $1.19$ $7115.20$ $0.156$ $0.080$ $1.21$ $1.21$ $7115.21$ $0.162$ $0.083$	1.00 1.01 1.02 1.03 1.04	1.00 1.01 1.02 1.03 1.04	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04	0.030 0.036 0.043 0.049 0.055	0.020 0.023 0.026 0.029 0.032	
1.09       1.09       7115.09       0.087       0.047         1.10       1.10       7115.10       0.093       0.050         1.11       1.11       7115.11       0.099       0.053         1.12       1.12       7115.12       0.106       0.056         1.13       1.13       7115.13       0.112       0.059         1.14       1.14       7115.14       0.118       0.062         1.15       1.15       7115.15       0.124       0.065         1.16       1.16       7115.16       0.131       0.068         1.17       1.17       7115.17       0.137       0.071         1.18       1.18       7115.19       0.150       0.077         1.20       1.20       7115.21       0.162       0.083	1.00 1.01 1.02 1.03 1.04 1.05	1.00 1.01 1.02 1.03 1.04 1.05	7115.00 7115.01 7115.02 7115.03 7115.04 7115.05	0.030 0.036 0.043 0.049 0.055 0.061	0.020 0.023 0.026 0.029 0.032 0.035	
1.10         1.10         7115.10         0.093         0.050           1.11         1.11         7115.11         0.099         0.053           1.12         1.12         7115.12         0.106         0.056           1.13         1.13         7115.13         0.112         0.059           1.14         1.14         7115.14         0.118         0.062           1.15         1.15         7115.15         0.124         0.065           1.16         1.16         7115.16         0.131         0.068           1.17         1.17         7115.17         0.137         0.071           1.18         1.18         7115.19         0.143         0.074           1.19         1.19         7115.20         0.156         0.080           1.21         1.21         7115.21         0.162         0.083	1.00 1.01 1.02 1.03 1.04 1.05 1.06	1.00 1.01 1.02 1.03 1.04 1.05 1.06	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04 <b>7115.05</b> 7115.06	0.030 0.036 0.043 0.049 0.055 0.061 0.068	0.020 0.023 0.026 0.029 0.032 0.035 0.038	
1.11       1.11       7115.11       0.099       0.053         1.12       1.12       7115.12       0.106       0.056         1.13       1.13       7115.13       0.112       0.059         1.14       1.14       7115.14       0.118       0.062         1.15       1.15       7115.15       0.124       0.065         1.16       1.16       7115.16       0.131       0.068         1.17       1.17       7115.17       0.137       0.071         1.18       1.18       7115.19       0.150       0.077         1.19       1.19       7115.20       0.156       0.080         1.21       1.21       7115.21       0.162       0.083	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04 <b>7115.05</b> 7115.06 7115.07	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074	0.020 0.023 0.026 0.029 0.032 0.035 0.038 0.041	
1.12       1.12       7115.12       0.106       0.056         1.13       1.13       7115.13       0.112       0.059         1.14       1.14       7115.14       0.118       0.062         1.15       1.15       7115.15       0.124       0.065         1.16       1.16       7115.16       0.131       0.068         1.17       1.17       7115.17       0.137       0.071         1.18       1.18       7115.19       0.150       0.077         1.20       1.20       7115.21       0.162       0.083	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04 <b>7115.05</b> 7115.06 7115.07 7115.08	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080	0.020 0.023 0.026 0.029 0.032 0.035 0.038 0.041 0.044	
1.13       1.13       7115.13       0.112       0.059         1.14       1.14       7115.14       0.118       0.062         1.15       1.15       7115.15       0.124       0.065         1.16       1.16       7115.16       0.131       0.068         1.17       1.17       7115.17       0.137       0.071         1.18       1.18       7115.19       0.150       0.077         1.19       1.19       7115.20       0.156       0.080         1.21       1.21       7115.21       0.162       0.083	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04 <b>7115.05</b> 7115.06 7115.07 7115.08 7115.09	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.087	0.020 0.023 0.026 0.029 0.032 0.035 0.038 0.041 0.044 0.044	
1.14       1.14       7115.14       0.118       0.062         1.15       1.15       7115.15       0.124       0.065         1.16       1.16       7115.16       0.131       0.068         1.17       1.17       7115.17       0.137       0.071         1.18       1.18       7115.19       0.150       0.077         1.19       1.19       7115.20       0.156       0.080         1.21       1.21       7115.21       0.162       0.083	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04 <b>7115.05</b> 7115.06 7115.07 7115.08 7115.09 <b>7115.10</b>	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.087           0.093	0.020 0.023 0.026 0.029 0.032 0.035 0.038 0.041 0.044 0.044 0.047 0.050	
1.15         1.15         7115.15         0.124         0.065           1.16         1.16         7115.16         0.131         0.068           1.17         1.17         7115.17         0.137         0.071           1.18         1.18         7115.18         0.143         0.074           1.19         1.19         7115.19         0.150         0.077           1.20         1.20         7115.21         0.162         0.083	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04 <b>7115.05</b> 7115.06 7115.07 7115.08 7115.09 <b>7115.10</b> 7115.11	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.087           0.093	0.020 0.023 0.026 0.029 0.032 0.035 0.038 0.041 0.044 0.047 0.050 0.053	
1.16         1.16         7115.16         0.131         0.068           1.17         1.17         7115.17         0.137         0.071           1.18         1.18         7115.18         0.143         0.074           1.19         1.19         7115.19         0.150         0.077           1.20         1.20         7115.20         0.156         0.080           1.21         1.21         7115.21         0.162         0.083	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12	7115.00           7115.01           7115.02           7115.03           7115.04           7115.05           7115.06           7115.07           7115.08           7115.09           7115.10           7115.11	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.087           0.093           0.099           0.106	0.020 0.023 0.026 0.029 0.032 0.035 0.038 0.041 0.044 0.047 0.050 0.053 0.056	
1.17         1.17         7115.17         0.137         0.071           1.18         1.18         7115.18         0.143         0.074           1.19         1.19         7115.19         0.150         0.077           1.20         1.20         7115.20         0.156         0.080           1.21         1.21         7115.21         0.162         0.083	1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.10           1.11           1.12           1.13	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04 <b>7115.05</b> 7115.06 7115.07 7115.08 7115.09 <b>7115.10</b> 7115.11 7115.12 7115.13	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.087           0.093           0.099           0.106	0.020 0.023 0.026 0.029 0.032 0.035 0.038 0.041 0.044 0.047 0.050 0.053 0.056 0.059	
1.18         1.18         7115.18         0.143         0.074           1.19         1.19         7115.19         0.150         0.077           1.20         1.20         7115.20         0.156         0.080           1.21         1.21         7115.21         0.162         0.083	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04 <b>7115.05</b> 7115.06 7115.07 7115.08 7115.09 <b>7115.10</b> 7115.11 7115.11 7115.12 7115.13 7115.14	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.093           0.099           0.106           0.112           0.118	0.020           0.023           0.026           0.029           0.032           0.035           0.038           0.041           0.044           0.047           0.050           0.053           0.056           0.059           0.062	
1.19         1.19         7115.19         0.150         0.077           1.20         1.20         7115.20         0.156         0.080           1.21         1.21         7115.21         0.162         0.083	1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.10           1.11           1.12           1.13           1.14           1.15	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14 1.15	7115.00 7115.01 7115.02 7115.03 7115.04 7115.05 7115.06 7115.07 7115.08 7115.09 7115.10 7115.11 7115.12 7115.13 7115.14 7115.15	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.093           0.099           0.106           0.112           0.118           0.124	0.020           0.023           0.026           0.029           0.032           0.035           0.038           0.041           0.044           0.047           0.050           0.053           0.056           0.059           0.062	
1.20         1.20         7115.20         0.156         0.080           1.21         1.21         7115.21         0.162         0.083	1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.10           1.12           1.13           1.14           1.15           1.16	1.00         1.01         1.02         1.03         1.04         1.05         1.06         1.07         1.08         1.09         1.10         1.11         1.12         1.13         1.14         1.15         1.16	7115.00 7115.01 7115.02 7115.03 7115.04 7115.05 7115.06 7115.07 7115.08 7115.09 7115.10 7115.11 7115.12 7115.13 7115.14 7115.15	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.093           0.099           0.106           0.112           0.118           0.124           0.131	0.020           0.023           0.026           0.029           0.032           0.035           0.038           0.041           0.044           0.047           0.050           0.053           0.056           0.059           0.062           0.068	
1.21 1.21 7115.21 0.162 0.083	1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.10           1.12           1.13           1.14           1.15           1.16           1.17	1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.11           1.12           1.13           1.14           1.15           1.16           1.17	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04 <b>7115.05</b> 7115.06 7115.07 7115.08 7115.09 <b>7115.10</b> 7115.11 7115.12 7115.13 7115.14 <b>7115.15</b> 7115.16 7115.17	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.093           0.099           0.106           0.112           0.118           0.124           0.131	0.020           0.023           0.029           0.032           0.035           0.038           0.041           0.044           0.047           0.050           0.053           0.056           0.059           0.062           0.068           0.071	
	1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.11           1.12           1.13           1.14           1.15           1.16           1.17           1.18	1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.11           1.12           1.13           1.14           1.15           1.16           1.17           1.18	<b>7115.00</b> 7115.01 7115.02 7115.03 7115.04 <b>7115.05</b> 7115.06 7115.07 7115.08 7115.09 <b>7115.10</b> 7115.11 7115.12 7115.13 7115.14 <b>7115.15</b> 7115.16 7115.17 7115.18	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.093           0.099           0.106           0.112           0.118           0.124           0.137           0.143	0.020           0.023           0.026           0.029           0.032           0.035           0.038           0.041           0.044           0.047           0.050           0.053           0.056           0.059           0.062           0.068           0.071           0.074	
1.22 1.22 7115.22 0.169 0.086	1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.10           1.11           1.12           1.13           1.14           1.15           1.16           1.17           1.18           1.19	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14 1.15 1.16 1.17 1.18 1.19	<b>7115.00</b> 7115.01 7115.02 7115.03 <b>7115.04</b> <b>7115.05</b> 7115.06 7115.07 7115.08 7115.09 <b>7115.10</b> 7115.11 7115.12 7115.13 7115.14 <b>7115.15</b> 7115.16 7115.17 7115.18 7115.19	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.093           0.099           0.106           0.112           0.118           0.124           0.137           0.143           0.150	0.020           0.023           0.026           0.029           0.032           0.035           0.038           0.041           0.044           0.047           0.050           0.053           0.056           0.059           0.062           0.068           0.071           0.074	
	1.00           1.01           1.02           1.03           1.04           1.05           1.06           1.07           1.08           1.09           1.10           1.11           1.12           1.13           1.14           1.15           1.16           1.17           1.18           1.19           1.20	1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14 1.15 1.16 1.17 1.18 1.19 1.20	<b>7115.00</b> 7115.01 7115.02 7115.03 <b>7115.04</b> <b>7115.05</b> 7115.06 7115.07 7115.08 7115.09 <b>7115.10</b> 7115.11 7115.12 7115.13 7115.14 <b>7115.15</b> 7115.16 7115.17 7115.18 7115.19 <b>7115.20</b>	0.030           0.036           0.043           0.049           0.055           0.061           0.068           0.074           0.080           0.087           0.093           0.106           0.112           0.118           0.124           0.131           0.137           0.143           0.150	0.020           0.023           0.029           0.032           0.035           0.038           0.041           0.044           0.047           0.050           0.053           0.056           0.059           0.062           0.068           0.071           0.077           0.080	

1.23	1.23	7029.23	0.756	0.756	
1.23	1.23	7029.23	0.763	0.750	
1.24	1.24	7029.24 7029.25	0.763	0.763 0.769	
1.25	1.25	7029.26	0.775	0.775	
1.27	1.27	7029.27	0.781	0.781	
1.28	1.28	7029.28	0.787	0.787	
1.29	1.29	7029.29	0.793	0.793	
1.30	1.30	7029.30	0.799	0.799	
1.31	1.31	7029.31	0.806	0.806	
1.32	1.32	7029.32	0.812	0.812	
1.33	1.33	7029.33	0.818	0.818	
1.34	1.34	7029.34	0.824	0.824	
1.35	1.35	7029.35	0.830	0.830	
1.36	1.36	7029.36	0.836	0.836	
1.37	1.37	7029.37	0.843	0.843	
1.38	1.38	7029.38	0.849	0.849	
1.39	1.39	7029.39	0.855	0.855	
1.40	1.40	7029.40	0.861	0.861	
1.41	1.41	7029.41	0.867	0.867	
1.42	1.42	7029.42	0.873	0.873	
1.43	1.43	7029.43	0.879	0.879	
1.44	1.44	7029.44	0.886	0.886	
1.45	1.45	7029.45	0.892	0.892	
1.46	1.46	7029.46	0.898	0.898	
1.47	1.47	7029.47	0.904	0.904	
1.48	1.48	7029.48	0.910	0.910	
1.49	1.49	7029.49	0.916	0.916	
1.50	1.50	7029.50	0.922	0.922	
1.51	1.51	7029.51	0.929	0.929	
1.52	1.52	7029.52	0.935	0.935	
1.53	1.53	7029.53	0.941	0.941	
1.54	1.54	7029.54	0.947	0.947	
1.55	1.55	7029.55	0.953	0.953	
1.56	1.56	7029.56	0.959	0.959	
1.57	1.57	7029.57	0.966	0.966	
1.58	1.58	7029.58	0.972	0.972	
1.59	1.59	7029.59	0.978	0.978	
1.60	1.60	7029.60	0.984	0.984	
1.61	1.61	7029.61	0.990	0.990	
1.62	1.62	7029.62	0.996	0.996	
1.63	1.63	7029.63	1.002	1.002	
1.64	1.64	7029.64	1.002	1.002	
1.65	1.65	7029.65	1.005	1.005	
1.66	1.66	7029.66	1.021	1.015	
1.67	1.67	7029.60	1.021	1.021	
1.68	1.68	7029.68	1.033	1.033	

1.23	1.23	7115.23	0.175	0.089	
1.24	1.23	7115.24	0.175	0.092	
1.25	1.25	7115.25	0.187	0.095	
1.26	1.26	7115.26	0.194	0.098	
1.27	1.27	7115.27	0.200	0.101	
1.28	1.28	7115.28	0.206	0.101	
1.29	1.29	7115.29	0.213	0.107	
1.30	1.30	7115.30	0.219	0.110	
1.31	1.31	7115.31	0.225	0.113	
1.32	1.32	7115.32	0.232	0.116	
1.33	1.33	7115.33	0.238	0.119	
1.34	1.34	7115.34	0.244	0.122	
1.35	1.35	7115.35	0.250	0.125	
1.36	1.36	7115.36	0.257	0.128	
1.37	1.37	7115.37	0.263	0.131	
1.38	1.38	7115.38	0.269	0.134	
1.39	1.39	7115.39	0.276	0.137	
1.40	1.40	7115.40	0.282	0.140	
1.41	1.41	7115.41	0.288	0.143	
1.42	1.42	7115.42	0.295	0.146	
1.43	1.43	7115.43	0.301	0.149	
1.44	1.44	7115.44	0.307	0.152	
1.45	1.45	7115.45	0.313	0.155	
1.46	1.46	7115.46	0.320	0.158	
1.47	1.47	7115.47	0.326	0.161	
1.48	1.48	7115.48	0.332	0.164	
1.49	1.49	7115.49	0.339	0.167	
1.50	1.50	7115.50	0.345	0.170	
1.51	1.51	7115.51	0.351	0.173	
1.52	1.52	7115.52	0.358	0.176	
1.53	1.53	7115.53	0.364	0.179	
1.54	1.54	7115.54	0.370	0.182	
1.55	1.55	7115.55	0.376	0.185	
1.56	1.56	7115.56	0.383	0.188	
1.57	1.57	7115.57	0.389	0.191	
1.58	1.58	7115.58	0.395	0.194	
1.59	1.59	7115.59	0.402	0.197	
1.60	1.60	7115.60	0.408	0.200	
1.61	1.61	7115.61	0.414	0.203	
1.62	1.62	7115.62	0.420	0.206	
1.63	1.63	7115.63	0.427	0.209	
1.64	1.64	7115.64	0.433	0.212	
1.65	1.65	7115.65	0.439	0.215	
1.66	1.66	7115.66	0.446	0.218	
1.67	1.67	7115.67	0.452	0.221	
1.68	1.68	7115.68	0.458	0.224	

1.69	1.69	7029.69	1.039	1.039	
1.70	1.70	7029.70	1.046	1.046	
1.71	1.71	7029.71	1.052	1.052	
1.72	1.72	7029.72	1.058	1.058	
1.73	1.73	7029.73	1.064	1.064	
1.74	1.74	7029.74	1.070	1.070	
1.75	1.75	7029.75	1.076	1.076	
1.76	1.76	7029.76	1.082	1.082	
1.77	1.77	7029.77	1.089	1.089	
1.78	1.78	7029.78	1.095	1.095	
1.79	1.79	7029.79	1.101	1.101	
1.80	1.80	7029.80	1.107	1.107	
1.81	1.81	7029.81	1.113	1.113	
1.82	1.82	7029.82	1.119	1.119	
1.83	1.83	7029.83	1.125	1.125	
1.84	1.84	7029.84	1.132	1.132	
1.85	1.85	7029.85	1.138	1.138	
1.86	1.86	7029.86	1.144	1.144	
1.87	1.87	7029.87	1.150	1.150	
1.88	1.88	7029.88	1.156	1.156	
1.89	1.89	7029.89	1.162	1.162	
1.90	1.90	7029.90	1.169	1.169	
1.91	1.91	7029.91	1.175	1.175	
1.92	1.92	7029.92	1.181	1.181	
1.93	1.93	7029.93	1.187	1.187	
1.94	1.94	7029.94	1.193	1.193	
1.95	1.95	7029.95	1.199	1.199	
1.96	1.96	7029.96	1.205	1.205	
1.97	1.97	7029.97	1.212	1.212	
1.98	1.98	7029.98	1.218	1.218	
1.99	1.99	7029.99	1.224	1.224	
2.00	2.00	7030.00	1.230	1.230	
2.01	2.01	7030.01	1.232	1.244	
2.02	2.02	7030.02	1.234	1.259	
2.03	2.03	7030.03	1.236	1.273	
2.04	2.04	7030.04	1.238	1.287	
2.05	2.05	7030.05	1.240	1.302	
2.06	2.06	7030.06	1.242	1.316	
2.07	2.07	7030.07	1.244	1.330	
2.08	2.08	7030.08	1.246	1.344	
2.09	2.09	7030.09	1.248	1.359	
2.10	2.10	7030.10	1.250	1.373	
2.11	2.11	7030.11	1.251	1.387	
2.12	2.12	7030.12	1.253	1.402	
2.13	2.13	7030.13	1.255	1.416	
2.14	2.14	7030.14	1.257	1.430	

1.69         1.70         1.71         1.72         1.73         1.74         1.75         1.76         1.77         1.78         1.79         1.80         1.81         1.82         1.83         1.84         1.85         1.86	1.69 1.70 1.71 1.72 1.73 1.74 1.75 1.76 1.77 1.78 1.79 1.80 1.81 1.82 1.83 1.84	7115.69         7115.71         7115.72         7115.73         7115.74         7115.75         7115.76         7115.77         7115.78         7115.79         7115.81         7115.81	0.465 0.471 0.477 0.483 0.490 0.496 0.502 0.509 0.515 0.521 0.521 0.528 0.534	0.227 0.230 0.233 0.236 0.239 0.242 0.245 0.245 0.248 0.251 0.254 0.257 0.260	
1.71         1.72         1.73         1.74         1.75         1.76         1.77         1.78         1.79         1.80         1.81         1.82         1.83         1.84         1.85	1.71 1.72 1.73 1.74 <b>1.75</b> 1.76 1.77 1.78 1.79 <b>1.80</b> 1.81 1.82 1.83	7115.71 7115.72 7115.73 7115.74 <b>7115.75</b> 7115.76 7115.77 7115.78 7115.79 <b>7115.80</b> 7115.81	0.477 0.483 0.490 0.496 0.502 0.509 0.515 0.521 0.528 0.534	0.233 0.236 0.239 0.242 0.245 0.248 0.251 0.254 0.257	
1.72         1.73         1.74         1.75         1.76         1.77         1.78         1.79         1.80         1.81         1.82         1.83         1.84         1.85	1.72         1.73         1.74         1.75         1.76         1.77         1.78         1.79         1.80         1.81         1.82         1.83	7115.72 7115.73 7115.74 7115.75 7115.76 7115.77 7115.78 7115.79 7115.80 7115.81	0.483 0.490 0.502 0.509 0.515 0.521 0.528 0.534	0.236 0.239 0.242 0.245 0.245 0.248 0.251 0.254 0.257	
1.73         1.74         1.75         1.76         1.77         1.78         1.79         1.80         1.81         1.82         1.83         1.84         1.85	1.73 1.74 <b>1.75</b> 1.76 1.77 1.78 1.79 <b>1.80</b> 1.81 1.82 1.83	7115.73 7115.74 7115.75 7115.76 7115.77 7115.78 7115.79 7115.80 7115.81	0.490 0.496 0.502 0.509 0.515 0.521 0.528 0.534	0.239 0.242 0.245 0.248 0.251 0.254 0.254 0.257	
1.74         1.75         1.76         1.77         1.78         1.79         1.80         1.81         1.82         1.83         1.84         1.85	1.74 1.75 1.76 1.77 1.78 1.79 1.80 1.81 1.82 1.83	7115.74 7115.75 7115.76 7115.77 7115.78 7115.79 7115.80 7115.81	0.496 0.502 0.509 0.515 0.521 0.528 0.534	0.242 0.245 0.248 0.251 0.254 0.257	
1.75         1.76         1.77         1.78         1.79         1.80         1.81         1.82         1.83         1.84         1.85	1.75         1.76         1.77         1.78         1.79         1.80         1.81         1.82         1.83	7115.75         7115.76         7115.77         7115.78         7115.79         7115.80         7115.81	0.502 0.509 0.515 0.521 0.528 0.534	0.245 0.248 0.251 0.254 0.257	
1.76         1.77         1.78         1.79         1.80         1.81         1.82         1.83         1.84         1.85	1.76 1.77 1.78 1.79 <b>1.80</b> 1.81 1.82 1.83	7115.76 7115.77 7115.78 7115.79 <b>7115.80</b> 7115.81	0.509 0.515 0.521 0.528 0.534	0.248 0.251 0.254 0.257	
1.77         1.78         1.79         1.80         1.81         1.82         1.83         1.84         1.85	1.77 1.78 1.79 <b>1.80</b> 1.81 1.82 1.83	7115.77 7115.78 7115.79 <b>7115.80</b> 7115.81	0.515 0.521 0.528 0.534	0.251 0.254 0.257	
1.78         1.79         1.80         1.81         1.82         1.83         1.84         1.85	1.78 1.79 <b>1.80</b> 1.81 1.82 1.83	7115.78 7115.79 <b>7115.80</b> 7115.81	0.521 0.528 0.534	0.254 0.257	
1.79           1.80           1.81           1.82           1.83           1.84           1.85	1.79 <b>1.80</b> 1.81 1.82 1.83	7115.79 <b>7115.80</b> 7115.81	0.528 0.534	0.257	
1.80           1.81           1.82           1.83           1.84           1.85	1.80         1.81         1.82         1.83	<b>7115.80</b> 7115.81	0.534		
1.81           1.82           1.83           1.84           1.85	1.81 1.82 1.83	7115.81		0.260	I
1.82           1.83           1.84           1.85	1.82 1.83		0.540		
1.83 1.84 <b>1.85</b>	1.83	7115.82		0.263	
1.84 1.85			0.546	0.266	
1.85	1 0 /	7115.83	0.553	0.269	
	1.84	7115.84	0.559	0.272	
1.86	1.85	7115.85	0.565	0.275	
	1.86	7115.86	0.572	0.278	
1.87	1.87	7115.87	0.578	0.281	
1.88	1.88	7115.88	0.584	0.284	
1.89	1.89	7115.89	0.591	0.287	
1.90	1.90	7115.90	0.597	0.290	
1.91	1.91	7115.91	0.603	0.293	
1.92	1.92	7115.92	0.609	0.296	
1.93	1.93	7115.93	0.616	0.299	
1.94	1.94	7115.94	0.622	0.302	
1.95	1.95	7115.95	0.628	0.305	
1.96	1.96	7115.96	0.635	0.308	
1.97	1.97	7115.97	0.641	0.311	
1.98	1.98	7115.98	0.647	0.314	
1.99	1.99	7115.99	0.654	0.317	
2.00	2.00	7116.00	0.662	0.360	
2.01	2.01	7116.01	0.664	0.368	
2.02	2.02	7116.02	0.665	0.377	
2.03	2.03	7116.03	0.667	0.385	
2.04	2.04	7116.04	0.669	0.394	
2.05	2.05	7116.05	0.671	0.402	
2.06	2.06	7116.06	0.673	0.410	
2.07	2.07	7116.07	0.674	0.419	
2.08	2.08	7116.08	0.676	0.427	
2.09	2.09	7116.09	0.678	0.436	
2.10	2.10	7116.10	0.680	0.444	
2.11	2.11	7116.11	0.681	0.452	
2.12	2.12	7116.12	0.683	0.461	
2.13	2.13	7116.13	0.685	0.469	
2.14	2.14	7116.14	0.687	0.478	

2.15	2.15	7030.15	1.259	1.445	
2.16	2.16	7030.16	1.261	1.459	
2.17	2.17	7030.17	1.263	1.473	
2.18	2.18	7030.18	1.265	1.487	
2.19	2.19	7030.19	1.267	1.502	
2.20	2.20	7030.20	1.269	1.516	
2.21	2.21	7030.21	1.271	1.530	
2.22	2.22	7030.22	1.273	1.545	
2.23	2.23	7030.23	1.275	1.559	
2.24	2.24	7030.24	1.277	1.573	
2.25	2.25	7030.25	1.279	1.588	
2.26	2.26	7030.26	1.281	1.602	
2.27	2.27	7030.27	1.283	1.616	
2.28	2.28	7030.28	1.285	1.630	
2.29	2.29	7030.29	1.287	1.645	
2.30	2.30	7030.30	1.289	1.659	
2.31	2.31	7030.31	1.290	1.673	
2.32	2.32	7030.32	1.292	1.688	
2.33	2.33	7030.33	1.294	1.702	
2.34	2.34	7030.34	1.296	1.716	
2.35	2.35	7030.35	1.298	1.731	
2.36	2.36	7030.36	1.300	1.745	
2.37	2.37	7030.37	1.302	1.759	
2.38	2.38	7030.38	1.304	1.773	
2.39	2.39	7030.39	1.306	1.788	
2.40	2.40	7030.40	1.308	1.802	
2.41	2.41	7030.41	1.310	1.816	
2.42	2.42	7030.42	1.312	1.831	
2.43	2.43	7030.43	1.314	1.845	
2.44	2.44	7030.44	1.316	1.859	
2.45	2.45	7030.45	1.318	1.874	
2.46	2.46	7030.46	1.320	1.888	
2.47	2.47	7030.47	1.322	1.902	
2.48	2.48	7030.48	1.324	1.916	
2.49	2.49	7030.49	1.326	1.931	
2.50	2.50	7030.50	1.327	1.945	
2.51	2.51	7030.51	1.329	1.959	
2.52	2.52	7030.52	1.331	1.974	
2.53	2.53	7030.53	1.333	1.988	
2.54	2.54	7030.54	1.335	2.002	
2.55	2.55	7030.55	1.337	2.017	
2.56	2.56	7030.56	1.339	2.031	
2.57	2.57	7030.57	1.341	2.045	
2.58	2.58	7030.58	1.343	2.059	
2.59	2.59	7030.59	1.345	2.074	
2.60	2.60	7030.60	1.347	2.088	

2.15	2.15	7116.15	0.688	0.486	
2.16	2.16	7116.16	0.690	0.494	
2.17	2.17	7116.17	0.692	0.503	
2.18	2.18	7116.18	0.694	0.511	
2.19	2.19	7116.19	0.696	0.520	
2.20	2.20	7116.20	0.697	0.528	
2.21	2.21	7116.21	0.699	0.536	
2.22	2.22	7116.22	0.701	0.545	
2.23	2.23	7116.23	0.703	0.553	
2.24	2.24	7116.24	0.704	0.562	
2.25	2.25	7116.25	0.706	0.570	
2.26	2.26	7116.26	0.708	0.578	
2.27	2.27	7116.27	0.710	0.587	
2.28	2.28	7116.28	0.711	0.595	
2.29	2.29	7116.29	0.713	0.604	
2.30	2.30	7116.30	0.715	0.612	
2.31	2.31	7116.31	0.717	0.620	
2.32	2.32	7116.32	0.719	0.629	
2.33	2.33	7116.33	0.720	0.637	
2.34	2.34	7116.34	0.722	0.646	
2.35	2.35	7116.35	0.724	0.654	
2.36	2.36	7116.36	0.726	0.662	
2.37	2.37	7116.37	0.727	0.671	
2.38	2.38	7116.38	0.729	0.679	
2.39	2.39	7116.39	0.731	0.688	
2.40	2.40	7116.40	0.733	0.696	
2.41	2.41	7116.41	0.734	0.704	
2.42	2.42	7116.42	0.736	0.713	
2.43	2.43	7116.43	0.738	0.721	
2.44	2.44	7116.44	0.740	0.730	
2.45	2.45	7116.45	0.742	0.738	
2.46	2.46	7116.46	0.743	0.746	
2.47	2.47	7116.47	0.745	0.755	
2.48	2.48	7116.48	0.747	0.763	
2.49	2.49	7116.49	0.749	0.772	
2.50	2.50	7116.50	0.750	0.780	
2.51	2.51	7116.51	0.752	0.788	
2.52	2.52	7116.52	0.754	0.797	
2.53	2.53	7116.53	0.756	0.805	
2.54	2.54	7116.54	0.757	0.814	
2.55	2.55	7116.55	0.759	0.822	
2.56	2.56	7116.56	0.761	0.830	
2.57	2.57	7116.57	0.763	0.839	
2.58	2.58	7116.58	0.765	0.847	
2.59	2.59	7116.59	0.766	0.856	
2.60	2.60	7116.60	0.768	0.864	

2.61	2.61	7030.61	1.349	2.102	
2.62	2.62	7030.62	1.351	2.117	
2.63	2.63	7030.63	1.353	2.131	
2.64	2.64	7030.64	1.355	2.145	
2.65	2.65	7030.65	1.357	2.160	
2.66	2.66	7030.66	1.359	2.174	
2.67	2.67	7030.67	1.361	2.188	
2.68	2.68	7030.68	1.363	2.202	
2.69	2.69	7030.69	1.365	2.217	
2.70	2.70	7030.70	1.366	2.231	
2.71	2.71	7030.71	1.368	2.245	
2.72	2.72	7030.72	1.370	2.260	
2.73	2.73	7030.73	1.372	2.274	
2.74	2.74	7030.74	1.374	2.288	
2.75	2.75	7030.75	1.376	2.303	
2.76	2.76	7030.76	1.378	2.317	
2.77	2.77	7030.77	1.380	2.331	
2.78	2.78	7030.78	1.382	2.345	
2.79	2.79	7030.79	1.384	2.360	
2.80	2.80	7030.80	1.386	2.374	
2.81	2.81	7030.81	1.388	2.388	
2.82	2.82	7030.82	1.390	2.403	
2.83	2.83	7030.83	1.392	2.417	
2.84	2.84	7030.84	1.394	2.431	
2.85	2.85	7030.85	1.396	2.446	
2.86	2.86	7030.86	1.398	2.460	
2.87	2.87	7030.87	1.400	2.474	
2.88	2.88	7030.88	1.402	2.488	
2.89	2.89	7030.89	1.404	2.503	
2.90	2.90	7030.90	1.405	2.517	
2.91	2.91	7030.91	1.407	2.531	
2.92	2.92	7030.92	1.409	2.546	
2.93	2.93	7030.93	1.411	2.560	
2.94	2.94	7030.94	1.413	2.574	
2.95	2.95	7030.95	1.415	2.589	
2.96	2.96	7030.96	1.417	2.603	
2.97	2.97	7030.97	1.419	2.617	
2.98	2.98	7030.98	1.421	2.631	
2.99	2.99	7030.99	1.423	2.646	
3.00	3.00	7031.00	1.425	2.660	
3.01	3.01	7031.01	1.427	2.674	
3.02	3.02	7031.02	1.429	2.689	
3.03	3.03	7031.03	1.431	2.703	
3.04	3.04	7031.04	1.433	2.717	
3.05	3.05	7031.05	1.435	2.732	
3.06	3.06	7031.06	1.437	2.746	

2.61	2.61	7116.61	0.770	0.872	
2.62	2.62	7116.62	0.772	0.881	
2.63	2.63	7116.63	0.773	0.889	
2.64	2.64	7116.64	0.775	0.898	
2.65	2.65	7116.65	0.777	0.906	
2.66	2.66	7116.66	0.779	0.914	
2.67	2.67	7116.67	0.780	0.923	
2.68	2.68	7116.68	0.782	0.931	
2.69	2.69	7116.69	0.784	0.940	
2.70	2.70	7116.70	0.786	0.948	
2.71	2.71	7116.71	0.788	0.956	
2.72	2.72	7116.72	0.789	0.965	
2.73	2.73	7116.73	0.791	0.973	
2.74	2.74	7116.74	0.793	0.982	
2.75	2.75	7116.75	0.795	0.990	
2.76	2.76	7116.76	0.796	0.998	
2.77	2.77	7116.77	0.798	1.007	
2.78	2.78	7116.78	0.800	1.015	
2.79	2.79	7116.79	0.802	1.024	
2.80	2.80	7116.80	0.803	1.032	
2.81	2.81	7116.81	0.805	1.040	
2.82	2.82	7116.82	0.807	1.049	
2.83	2.83	7116.83	0.809	1.057	
2.84	2.84	7116.84	0.811	1.066	
2.85	2.85	7116.85	0.812	1.074	
2.86	2.86	7116.86	0.814	1.082	
2.87	2.87	7116.87	0.816	1.091	
2.88	2.88	7116.88	0.818	1.099	
2.89	2.89	7116.89	0.819	1.108	
2.90	2.90	7116.90	0.821	1.116	
2.91	2.91	7116.91	0.823	1.124	
2.92	2.92	7116.92	0.825	1.133	
2.93	2.93	7116.93	0.827	1.141	
2.94	2.94	7116.94	0.828	1.150	
2.95	2.95	7116.95	0.830	1.158	
2.96	2.96	7116.96	0.832	1.166	
2.97	2.97	7116.97	0.834	1.175	
2.98	2.98	7116.98	0.835	1.183	
2.99	2.99	7116.99	0.837	1.192	
3.00	3.00	7117.00	0.839	1.200	
3.01	3.01	7117.01	0.841	1.208	
3.02	3.02	7117.02	0.842	1.217	
3.03	3.03	7117.03	0.844	1.225	
3.04	3.04	7117.04	0.846	1.234	
3.05	3.05	7117.05	0.848	1.242	
3.06	3.06	7117.06	0.850	1.250	

2.07	7021.07	1 /20	2 760	
		-		
-		-	-	
		-		
3.25	7031.25	1.474	3.018	
3.26	7031.26	1.476	3.032	
3.27	7031.27	1.478	3.046	
3.28	7031.28	1.480	3.060	
3.29	7031.29	1.482	3.075	
3.30	7031.30	1.483	3.089	
3.31	7031.31	1.485	3.103	
3.32	7031.32	1.487	3.118	
3.33	7031.33	1.489	3.132	
3.34	7031.34	1.491	3.146	
3.35	7031.35	1.493	3.161	
3.36	7031.36	1.495	3.175	
3.37	7031.37	1.497	3.189	
3.38	7031.38	1.499	3.203	
3.39	7031.39	1.501	3.218	
3.40	7031.40	1.503	3.232	
3.41	7031.41	1.505	3.246	
3.42	7031.42	1.507	3.261	
3.43	7031.43	1.509	3.275	
3.44	7031.44	1.511	3.289	
3.45	7031.45	1.513	3.304	
3.46	7031.46	1.515	3.318	
	7024 47	1 5 1 7	3.332	
3.47	/031.4/	1.517		
3.47 3.48	7031.47	1.519	3.346	
3.48	7031.48	1.519	3.346	
3.48 3.49	7031.48 7031.49	1.519 1.521	3.346 3.361	
	3.27 3.28 3.29 <b>3.30</b> 3.31 3.32 3.33 3.34 <b>3.35</b> 3.36 3.37 3.38 3.39 <b>3.40</b> 3.41 3.42 3.43 3.44 <b>3.45</b> 3.46	3.08         7031.08           3.09         7031.09           3.10         7031.11           3.12         7031.12           3.13         7031.13           3.14         7031.14           3.15         7031.15           3.16         7031.17           3.18         7031.18           3.14         7031.17           3.15         7031.17           3.16         7031.17           3.18         7031.19           3.19         7031.19           3.20         7031.20           3.21         7031.21           3.22         7031.23           3.24         7031.24           3.25         7031.25           3.26         7031.26           3.27         7031.27           3.28         7031.28           3.29         7031.29           3.30         7031.30           3.31         7031.31           3.32         7031.32           3.33         7031.33           3.34         7031.34           3.35         7031.36           3.36         7031.36           3.37         7031.37 <td>3.08         7031.08         1.441           3.09         7031.09         1.443           3.10         7031.10         1.444           3.11         7031.12         1.444           3.12         7031.12         1.448           3.13         7031.13         1.450           3.14         7031.14         1.452           3.15         7031.15         1.454           3.16         7031.17         1.458           3.17         7031.17         1.458           3.18         7031.19         1.462           3.20         7031.20         1.464           3.21         7031.21         1.466           3.22         7031.22         1.468           3.23         7031.23         1.470           3.24         7031.24         1.472           3.25         7031.27         1.478           3.26         7031.27         1.478           3.28         7031.29         1.482           3.30         7031.30         1.483           3.31         7031.31         1.485           3.32         7031.32         1.487           3.33         7031.33         1.489     <td>3.087031.081.4412.7743.097031.091.4432.7893.107031.101.4442.8033.117031.111.4462.8173.127031.121.4482.8323.137031.131.4502.8463.147031.141.4522.8603.157031.151.4542.8753.167031.161.4562.8893.177031.171.4582.9033.187031.181.4602.9173.197031.191.4622.9323.207031.201.4642.9463.217031.211.4662.9603.227031.221.4682.9753.237031.231.4702.9893.247031.241.4723.0033.257031.251.4743.0183.267031.261.4763.0323.277031.271.4783.0463.287031.301.4833.0603.297031.311.4853.1033.317031.311.4853.1033.327031.321.4873.1183.337031.331.4893.1323.347031.341.4913.1463.357031.351.4933.1613.367031.361.4953.1753.377031.371.4973.1893.387031.381.4993.2033.397031.391.5013.218<!--</td--></td></td>	3.08         7031.08         1.441           3.09         7031.09         1.443           3.10         7031.10         1.444           3.11         7031.12         1.444           3.12         7031.12         1.448           3.13         7031.13         1.450           3.14         7031.14         1.452           3.15         7031.15         1.454           3.16         7031.17         1.458           3.17         7031.17         1.458           3.18         7031.19         1.462           3.20         7031.20         1.464           3.21         7031.21         1.466           3.22         7031.22         1.468           3.23         7031.23         1.470           3.24         7031.24         1.472           3.25         7031.27         1.478           3.26         7031.27         1.478           3.28         7031.29         1.482           3.30         7031.30         1.483           3.31         7031.31         1.485           3.32         7031.32         1.487           3.33         7031.33         1.489 <td>3.087031.081.4412.7743.097031.091.4432.7893.107031.101.4442.8033.117031.111.4462.8173.127031.121.4482.8323.137031.131.4502.8463.147031.141.4522.8603.157031.151.4542.8753.167031.161.4562.8893.177031.171.4582.9033.187031.181.4602.9173.197031.191.4622.9323.207031.201.4642.9463.217031.211.4662.9603.227031.221.4682.9753.237031.231.4702.9893.247031.241.4723.0033.257031.251.4743.0183.267031.261.4763.0323.277031.271.4783.0463.287031.301.4833.0603.297031.311.4853.1033.317031.311.4853.1033.327031.321.4873.1183.337031.331.4893.1323.347031.341.4913.1463.357031.351.4933.1613.367031.361.4953.1753.377031.371.4973.1893.387031.381.4993.2033.397031.391.5013.218<!--</td--></td>	3.087031.081.4412.7743.097031.091.4432.7893.107031.101.4442.8033.117031.111.4462.8173.127031.121.4482.8323.137031.131.4502.8463.147031.141.4522.8603.157031.151.4542.8753.167031.161.4562.8893.177031.171.4582.9033.187031.181.4602.9173.197031.191.4622.9323.207031.201.4642.9463.217031.211.4662.9603.227031.221.4682.9753.237031.231.4702.9893.247031.241.4723.0033.257031.251.4743.0183.267031.261.4763.0323.277031.271.4783.0463.287031.301.4833.0603.297031.311.4853.1033.317031.311.4853.1033.327031.321.4873.1183.337031.331.4893.1323.347031.341.4913.1463.357031.351.4933.1613.367031.361.4953.1753.377031.371.4973.1893.387031.381.4993.2033.397031.391.5013.218 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3.07	3.07	7117.07	0.851	1.259	
3.08	3.08	7117.08	0.853	1.267	
3.09	3.09	7117.09	0.855	1.276	
3.10	3.10	7117.10	0.857	1.284	
3.11	3.11	7117.11	0.858	1.292	
3.12	3.12	7117.12	0.860	1.301	
3.13	3.13	7117.13	0.862	1.309	
3.14	3.14	7117.14	0.864	1.318	
3.15	3.15	7117.15	0.865	1.326	
3.16	3.16	7117.16	0.867	1.334	
3.17	3.17	7117.17	0.869	1.343	
3.18	3.18	7117.18	0.871	1.351	
3.19	3.19	7117.19	0.873	1.360	
3.20	3.20	7117.20	0.874	1.368	
3.21	3.21	7117.21	0.876	1.376	
3.22	3.22	7117.22	0.878	1.385	
3.23	3.23	7117.23	0.880	1.393	
3.24	3.24	7117.24	0.881	1.402	
3.25	3.25	7117.25	0.883	1.410	
3.26	3.26	7117.26	0.885	1.418	
3.27	3.27	7117.27	0.887	1.427	
3.28	3.28	7117.28	0.888	1.435	
3.29	3.29	7117.29	0.890	1.444	
3.30	3.30	7117.30	0.892	1.452	
3.31	3.31	7117.31	0.894	1.460	
3.32	3.32	7117.32	0.896	1.469	
3.33	3.33	7117.33	0.897	1.477	
3.34	3.34	7117.34	0.899	1.486	
3.35	3.35	7117.35	0.901	1.494	
3.36	3.36	7117.36	0.903	1.502	
3.37	3.37	7117.37	0.904	1.511	
3.38	3.38	7117.38	0.906	1.519	
3.39	3.39	7117.39	0.908	1.528	
3.40	3.40	7117.40	0.910	1.536	
3.41	3.41	7117.41	0.911	1.544	
3.42	3.42	7117.42	0.913	1.553	
3.43	3.43	7117.43	0.915	1.561	
3.44	3.44	7117.44	0.917	1.570	
3.45	3.45	7117.45	0.919	1.578	
3.46	3.46	7117.46	0.920	1.586	
3.47	3.47	7117.47	0.922	1.595	
3.48	3.48	7117.48	0.924	1.603	
3.49	3.49	7117.49	0.926	1.612	
3.50	3.50	7117.50	0.927	1.620	
3.51	3.51	7117.51	0.929	1.628	
3.52	3.52	7117.52	0.931	1.637	
				•	

3.53	3.53	7031.53	1.528	3.418	
3.54	3.54	7031.54	1.530	3.432	
3.55	3.55	7031.55	1.532	3.447	
3.56	3.56	7031.56	1.534	3.461	
3.57	3.57	7031.57	1.536	3.475	
3.58	3.58	7031.58	1.538	3.489	
3.59	3.59	7031.59	1.540	3.504	
3.60	3.60	7031.60	1.542	3.518	
3.61	3.61	7031.61	1.544	3.532	
3.62	3.62	7031.62	1.546	3.547	
3.63	3.63	7031.63	1.548	3.561	
3.64	3.64	7031.64	1.550	3.575	
3.65	3.65	7031.65	1.552	3.590	
3.66	3.66	7031.66	1.554	3.604	
3.67	3.67	7031.67	1.556	3.618	
3.68	3.68	7031.68	1.558	3.632	
3.69	3.69	7031.69	1.560	3.647	
3.70	3.70	7031.70	1.561	3.661	
3.71	3.71	7031.71	1.563	3.675	
3.72	3.72	7031.72	1.565	3.690	
3.73	3.73	7031.73	1.567	3.704	
3.74	3.74	7031.74	1.569	3.718	
3.75	3.75	7031.75	1.571	3.733	
3.76	3.76	7031.76	1.573	3.747	
3.77	3.77	7031.77	1.575	3.761	
3.78	3.78	7031.78	1.577	3.775	
3.79	3.79	7031.79	1.579	3.790	
3.80	3.80	7031.80	1.581	3.804	
3.81	3.81	7031.81	1.583	3.818	
3.82	3.82	7031.82	1.585	3.833	
3.83	3.83	7031.83	1.587	3.847	
3.84	3.84	7031.84	1.589	3.861	
3.85	3.85	7031.85	1.591	3.876	
3.86	3.86	7031.86	1.593	3.890	
3.87	3.87	7031.87	1.595	3.904	
3.88	3.88	7031.88	1.597	3.918	
3.89	3.89	7031.89	1.599	3.933	
3.90	3.90	7031.90	1.600	3.947	
3.91	3.91	7031.91	1.602	3.961	
3.92	3.92	7031.92	1.604	3.976	
3.93	3.93	7031.93	1.606	3.990	
3.94	3.94	7031.94	1.608	4.004	
3.95	3.95	7031.95	1.610	4.019	
3.96	3.96	7031.96	1.612	4.033	
3.97	3.97	7031.97	1.614	4.047	
3.98	3.98	7031.98	1.616	4.061	

3.53	3.53	7117.53	0.933	1.645	
3.54	3.54	7117.54	0.934	1.654	
3.54	3.55	7117.54	0.936	1.662	
3.56	3.56	7117.56	0.938	1.670	
3.50	3.50	7117.50	0.940	1.679	
3.58	3.58	7117.58	0.940	1.687	
3.59	3.58	7117.59	0.942	1.696	
3.59 3.60	3.60	7117.59 7117.60	0.945	1.704	
3.61	3.61	7117.61	0.947	1.712	
3.62	3.62	7117.62	0.949	1.712	
3.63	3.63	7117.63	0.950	1.729	
3.64	3.64	7117.64	0.952	1.725	
3.65	3.65	7117.65	0.954	1.746	
3.66	3.66	7117.66	0.956	1.754	
3.67	3.67	7117.67	0.950	1.763	
3.68	3.68	7117.68	0.959	1.703	
3.69	3.69	7117.69	0.955	1.771	
3.00	3.00 3.70	7117.00	0.963	1.788	
3.71	3.71	7117.71	0.965	1.796	
3.71	3.71	7117.72	0.966	1.805	
3.72	3.72	7117.72	0.968	1.813	
3.74	3.73	7117.73	0.970	1.813	
3.74	3.74	7117.74	0.972	1.830	
3.76	3.76	7117.76	0.972	1.838	
3.70	3.70	7117.77	0.975	1.838	
3.78	3.78	7117.78	0.977	1.855	
3.79	3.79	7117.79	0.979	1.864	
3.80	3.80	7117.80	0.980	1.872	
3.81	3.81	7117.81	0.982	1.880	
3.82	3.82	7117.82	0.984	1.889	
3.83	3.83	7117.83	0.986	1.897	
3.84	3.84	7117.84	0.988	1.906	
3.85	3.85	7117.85	0.989	1.914	
3.86	3.86	7117.86	0.991	1.922	
3.87	3.87	7117.87	0.993	1.931	
3.88	3.88	7117.88	0.995	1.939	
3.89	3.89	7117.89	0.996	1.948	
3.90	3.90	7117.90	0.998	1.956	
3.91	3.91	7117.91	1.000	1.964	
3.92	3.92	7117.92	1.002	1.973	
3.93	3.93	7117.93	1.004	1.981	
3.94	3.94	7117.94	1.005	1.990	
3.95	3.95	7117.95	1.007	1.998	
3.96	3.96	7117.96	1.009	2.006	
3.97	3.97	7117.97	1.011	2.015	
3.98	3.98	7117.98	1.012	2.023	
<u> </u>	•				

3.99	3.99	7031.99	1.618	4.076	
4.00	4.00	7032.00	1.620	4.090	
4.01	4.01	7032.01	1.622	4.108	
4.02	4.02	7032.02	1.624	4.126	
4.03	4.03	7032.03	1.626	4.144	
4.04	4.04	7032.04	1.628	4.163	
4.05	4.05	7032.05	1.630	4.181	
4.06	4.06	7032.06	1.632	4.199	
4.07	4.07	7032.07	1.634	4.217	
4.08	4.08	7032.08	1.636	4.235	
4.09	4.09	7032.09	1.638	4.253	
4.10	4.10	7032.10	1.640	4.272	
4.11	4.11	7032.11	1.641	4.290	
4.12	4.12	7032.12	1.643	4.308	
4.13	4.13	7032.13	1.645	4.326	
4.14	4.14	7032.14	1.647	4.344	
4.15	4.15	7032.15	1.649	4.362	
4.16	4.16	7032.16	1.651	4.380	
4.17	4.17	7032.17	1.653	4.399	
4.18	4.18	7032.18	1.655	4.417	
4.19	4.19	7032.19	1.657	4.435	
4.20	4.20	7032.20	1.659	4.453	
4.21	4.21	7032.21	1.661	4.471	
4.22	4.22	7032.22	1.663	4.489	
4.23	4.23	7032.23	1.665	4.507	
4.24	4.24	7032.24	1.667	4.526	
4.25	4.25	7032.25	1.669	4.544	
4.26	4.26	7032.26	1.671	4.562	
4.27	4.27	7032.27	1.673	4.580	
4.28	4.28	7032.28	1.675	4.598	
4.29	4.29	7032.29	1.677	4.616	
4.30	4.30	7032.30	1.679	4.635	
4.31	4.31	7032.31	1.680	4.653	
4.32	4.32	7032.32	1.682	4.671	
4.33	4.33	7032.33	1.684	4.689	
4.34	4.34	7032.34	1.686	4.707	
4.35	4.35	7032.35	1.688	4.725	
4.36	4.36	7032.36	1.690	4.743	
4.37	4.37	7032.37	1.692	4.762	
4.38	4.38	7032.38	1.694	4.780	
4.39	4.39	7032.39	1.696	4.798	
4.40	4.40	7032.40	1.698	4.816	
4.41	4.41	7032.41	1.700	4.834	
4.42	4.42	7032.42	1.702	4.852	
4.43	4.43	7032.43	1.704	4.870	
4.44	4.44	7032.44	1.706	4.889	

3.99	3.99	7117.99	1.014	2.032	
4.00	4.00	7118.00	1.016	2.040	
4.01	4.01	7118.01	1.017	2.051	
4.02	4.02	7118.02	1.018	2.063	
4.03	4.03	7118.03	1.019	2.074	
4.04	4.04	7118.04	1.020	2.085	
4.05	4.05	7118.05	1.021	2.096	
4.06	4.06	7118.06	1.022	2.108	
4.07	4.07	7118.07	1.023	2.119	
4.08	4.08	7118.08	1.024	2.130	
4.09	4.09	7118.09	1.025	2.141	
4.10	4.10	7118.10	1.026	2.153	
4.11	4.11	7118.11	1.027	2.164	
4.12	4.12	7118.12	1.029	2.175	
4.13	4.13	7118.13	1.030	2.186	
4.14	4.14	7118.14	1.031	2.198	
4.15	4.15	7118.15	1.032	2.209	
4.16	4.16	7118.16	1.033	2.220	
4.17	4.17	7118.17	1.034	2.231	
4.18	4.18	7118.18	1.035	2.243	
4.19	4.19	7118.19	1.036	2.254	
4.20	4.20	7118.20	1.037	2.265	
4.21	4.21	7118.21	1.038	2.276	
4.22	4.22	7118.22	1.039	2.288	
4.23	4.23	7118.23	1.041	2.299	
4.24	4.24	7118.24	1.042	2.310	
4.25	4.25	7118.25	1.043	2.321	
4.26	4.26	7118.26	1.044	2.333	
4.27	4.27	7118.27	1.045	2.344	
4.28	4.28	7118.28	1.046	2.355	
4.29	4.29	7118.29	1.047	2.366	
4.30	4.30	7118.30	1.048	2.378	
4.31	4.31	7118.31	1 0 10		
4.22		/110.31	1.049	2.389	
4.32	4.32	7118.31	1.049	2.389 2.400	
4.32	4.32 4.33				
-		7118.32	1.050	2.400	
4.33	4.33	7118.32 7118.33	1.050 1.051	2.400 2.411	
4.33 4.34	4.33 4.34	7118.32 7118.33 7118.34	1.050 1.051 1.053	2.400 2.411 2.423	
4.33 4.34 <b>4.35</b>	4.33 4.34 <b>4.35</b>	7118.32 7118.33 7118.34 <b>7118.35</b>	1.050 1.051 1.053 <b>1.054</b>	2.400 2.411 2.423 <b>2.434</b>	
4.33 4.34 <b>4.35</b> 4.36	4.33 4.34 <b>4.35</b> 4.36	7118.32 7118.33 7118.34 <b>7118.35</b> 7118.36	1.050 1.051 1.053 <b>1.054</b> 1.055	2.400 2.411 2.423 <b>2.434</b> 2.445	
4.33 4.34 <b>4.35</b> 4.36 4.37	4.33 4.34 <b>4.35</b> 4.36 4.37	7118.32 7118.33 7118.34 <b>7118.35</b> 7118.36 7118.37	1.050 1.051 1.053 <b>1.054</b> 1.055 1.056	2.400 2.411 2.423 <b>2.434</b> 2.445 2.456	
4.33 4.34 <b>4.35</b> 4.36 4.37 4.38	4.33 4.34 <b>4.35</b> 4.36 4.37 4.38	7118.32 7118.33 7118.34 <b>7118.35</b> 7118.36 7118.37 7118.38	1.050 1.051 1.053 1.054 1.055 1.056 1.057	2.400 2.411 2.423 <b>2.434</b> 2.445 2.456 2.468	
4.33 4.34 4.35 4.36 4.37 4.38 4.39	4.33 4.34 4.35 4.36 4.37 4.38 4.39	7118.32 7118.33 7118.34 <b>7118.35</b> 7118.36 7118.37 7118.38 7118.39	1.050 1.051 1.053 1.054 1.055 1.056 1.057 1.058	2.400 2.411 2.423 <b>2.434</b> 2.445 2.456 2.468 2.479	
4.33 4.34 4.35 4.36 4.37 4.38 4.39 4.40	4.33 4.34 4.35 4.36 4.37 4.38 4.39 4.40	7118.32 7118.33 7118.34 <b>7118.35</b> 7118.36 7118.37 7118.38 7118.39 <b>7118.40</b>	1.050 1.051 1.053 1.054 1.055 1.056 1.057 1.058 1.059	2.400 2.411 2.423 <b>2.434</b> 2.445 2.456 2.468 2.479 <b>2.490</b>	
4.33 4.34 4.35 4.36 4.37 4.38 4.39 4.40 4.41	4.33 4.34 4.35 4.36 4.37 4.38 4.39 4.40 4.41	7118.32 7118.33 7118.34 <b>7118.35</b> 7118.36 7118.37 7118.38 7118.39 <b>7118.40</b> 7118.41	1.050 1.051 1.053 1.054 1.055 1.056 1.057 1.058 1.059 1.060	2.400 2.411 2.423 <b>2.434</b> 2.445 2.445 2.456 2.468 2.479 <b>2.490</b> 2.501	

4.45	4.45	7032.45	1.708	4.907	
4.46	4.46	7032.46	1.710	4.925	
4.47	4.47	7032.47	1.712	4.943	
4.48	4.48	7032.48	1.714	4.961	
4.49	4.49	7032.49	1.716	4.979	
4.50	4.50	7032.50	1.717	4.998	
4.51	4.51	7032.51	1.719	5.016	
4.52	4.52	7032.52	1.721	5.034	
4.53	4.53	7032.53	1.723	5.052	
4.54	4.54	7032.54	1.725	5.070	
4.55	4.55	7032.55	1.727	5.088	
4.56	4.56	7032.56	1.729	5.106	
4.57	4.57	7032.57	1.731	5.125	
4.58	4.58	7032.58	1.733	5.143	
4.59	4.59	7032.59	1.735	5.161	
4.60	4.60	7032.60	1.737	5.179	
4.61	4.61	7032.61	1.739	5.197	
4.62	4.62	7032.62	1.741	5.215	
4.63	4.63	7032.63	1.743	5.233	
4.64	4.64	7032.64	1.745	5.252	
4.65	4.65	7032.65	1.747	5.270	
4.66	4.66	7032.66	1.749	5.288	
4.67	4.67	7032.67	1.751	5.306	
4.68	4.68	7032.68	1.753	5.324	
4.69	4.69	7032.69	1.755	5.342	
4.70	4.70	7032.70	1.756	5.361	
4.71	4.71	7032.71	1.758	5.379	
4.72	4.72	7032.72	1.760	5.397	
4.73	4.73	7032.73	1.762	5.415	
4.74	4.74	7032.74	1.764	5.433	
4.75	4.75	7032.75	1.766	5.451	
4.76	4.76	7032.76	1.768	5.469	
4.77	4.77	7032.77	1.770	5.488	
4.78	4.78	7032.78	1.772	5.506	
4.79	4.79	7032.79	1.774	5.524	
4.80	4.80	7032.80	1.776	5.542	
4.81	4.81	7032.81	1.778	5.560	
4.82	4.82	7032.82	1.780	5.578	
4.83	4.83	7032.83	1.782	5.596	
4.84	4.84	7032.84	1.784	5.615	
4.85	4.85	7032.85	1.786	5.633	
4.86	4.86	7032.86	1.788	5.651	
4.87	4.87	7032.87	1.790	5.669	
4.88	4.88	7032.88	1.792	5.687	
4.89	4.89	7032.89	1.794	5.705	
4.90	4.90	7032.90	1.795	5.724	

4.45	4.45	7118.45	1.065	2.546	
4.46	4.46	7118.46	1.066	2.558	
4.47	4.47	7118.47	1.067	2.569	
4.48	4.48	7118.48	1.068	2.580	
4.49	4.49	7118.49	1.069	2.591	
4.50	4.50	7118.50	1.070	2.603	
4.51	4.51	7118.51	1.071	2.614	
4.52	4.52	7118.52	1.072	2.625	
4.53	4.53	7118.53	1.073	2.636	
4.54	4.54	7118.54	1.074	2.648	
4.55	4.55	7118.55	1.075	2.659	
4.56	4.56	7118.56	1.077	2.670	
4.57	4.57	7118.57	1.078	2.681	
4.58	4.58	7118.58	1.079	2.693	
4.59	4.59	7118.59	1.080	2.704	
4.60	4.60	7118.60	1.081	2.715	
4.61	4.61	7118.61	1.082	2.726	
4.62	4.62	7118.62	1.083	2.738	
4.63	4.63	7118.63	1.084	2.749	
4.64	4.64	7118.64	1.085	2.760	
4.65	4.65	7118.65	1.086	2.771	
4.66	4.66	7118.66	1.087	2.783	
4.67	4.67	7118.67	1.089	2.794	
4.68	4.68	7118.68	1.090	2.805	
4.69	4.69	7118.69	1.091	2.816	
4.70	4.70	7118.70	1.092	2.828	
4.71	4.71	7118.71	1.093	2.839	
4.72	4.72	7118.72	1.094	2.850	
4.73	4.73	7118.73	1.095	2.861	
4.74	4.74	7118.74	1.096	2.873	
4.75	4.75	7118.75	1.097	2.884	
4.76	4.76	7118.76	1.098	2.895	
4.77	4.77	7118.77	1.099	2.906	
4.78	4.78	7118.78	1.101	2.918	
4.79	4.79	7118.79	1.102	2.929	
4.80	4.80	7118.80	1.103	2.940	
4.81	4.81	7118.81	1.104	2.951	
4.82	4.82	7118.82	1.105	2.963	
4.83	4.83	7118.83	1.106	2.974	
4.84	4.84	7118.84	1.107	2.985	
4.85	4.85	7118.85	1.108	2.996	
4.86	4.86	7118.86	1.109	3.008	
4.87	4.87	7118.87	1.110	3.019	
4.88	4.88	7118.88	1.111	3.030	
4.89	4.89	7118.89	1.113	3.041	
4.90	4.90	7118.90	1.115	3.053	

4.91	4.91	7032.91	1.797	5.742	
4.92	4.92	7032.92	1.799	5.760	
4.93	4.93	7032.93	1.801	5.778	
4.94	4.94	7032.94	1.803	5.796	
4.95	4.95	7032.95	1.805	5.814	
4.96	4.96	7032.96	1.807	5.832	
4.97	4.97	7032.97	1.809	5.851	
4.98	4.98	7032.98	1.811	5.869	
4.99	4.99	7032.99	1.813	5.887	
5.00	5.00	7033.00	1.815	5.905	
5.01	5.01	7033.01	1.817	5.923	
5.02	5.02	7033.02	1.819	5.941	
5.03	5.03	7033.03	1.821	5.959	
5.04	5.04	7033.04	1.823	5.978	
5.05	5.05	7033.05	1.825	5.996	
5.06	5.06	7033.06	1.827	6.014	
5.07	5.07	7033.07	1.829	6.032	
5.08	5.08	7033.08	1.831	6.050	
5.09	5.09	7033.09	1.833	6.068	
5.10	5.10	7033.10	1.834	6.087	
5.11	5.11	7033.11	1.836	6.105	
5.12	5.12	7033.12	1.838	6.123	
5.13	5.13	7033.13	1.840	6.141	
5.14	5.14	7033.14	1.842	6.159	
5.15	5.15	7033.15	1.844	6.177	
5.16	5.16	7033.16	1.846	6.195	
5.17	5.17	7033.17	1.848	6.214	
5.18	5.18	7033.18	1.850	6.232	
5.19	5.19	7033.19	1.852	6.250	
5.20	5.20	7033.20	1.854	6.268	
5.21	5.21	7033.21	1.856	6.286	
5.22	5.22	7033.22	1.858	6.304	
5.23	5.23	7033.23	1.860	6.322	
5.24	5.24	7033.24	1.862	6.341	
5.25	5.25	7033.25	1.864	6.359	
5.26	5.26	7033.26	1.866	6.377	
5.27	5.27	7033.27	1.868	6.395	
5.28	5.28	7033.28	1.870	6.413	
5.29	5.29	7033.29	1.872	6.431	
5.30	5.30	7033.30	1.873	6.450	
5.31	5.31	7033.31	1.875	6.468	
5.32	5.32	7033.32	1.877	6.486	
5.33	5.33	7033.33	1.879	6.504	
5.34	5.34	7033.34	1.881	6.522	
5.35	5.35	7033.35	1.883	6.540	
5.36	5.36	7033.36	1.885	6.558	

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4.91	4.91	7118.91	1.115	3.064	
4.92	4.92	7118.92	1.116	3.075	
4.93	4.93	7118.93	1.117	3.086	
4.94	4.94	7118.94	1.118	3.098	
4.95	4.95	7118.95	1.119	3.109	
4.96	4.96	7118.96	1.120	3.120	
4.97	4.97	7118.97	1.121	3.131	
4.98	4.98	7118.98	1.122	3.143	
4.99	4.99	7118.99	1.123	3.154	
5.00	5.00	7119.00	1.125	3.165	
5.01	5.01	7119.01	1.126	3.176	
5.02	5.02	7119.02	1.127	3.188	
5.03	5.03	7119.03	1.128	3.199	
5.04	5.04	7119.04	1.129	3.210	
5.05	5.05	7119.05	1.130	3.221	
5.06	5.06	7119.06	1.131	3.233	
5.07	5.07	7119.07	1.132	3.244	
5.08	5.08	7119.08	1.133	3.255	
5.09	5.09	7119.09	1.134	3.266	
5.10	5.10	7119.10	1.135	3.278	
5.11	5.11	7119.11	1.136	3.289	
5.12	5.12	7119.12	1.138	3.300	
5.13	5.13	7119.13	1.139	3.311	
5.14	5.14	7119.14	1.140	3.323	
5.15	5.15	7119.15	1.141	3.334	
5.16	5.16	7119.16	1.142	3.345	
5.17	5.17	7119.17	1.143	3.356	
5.18	5.18	7119.18	1.144	3.368	
5.19	5.19	7119.19	1.145	3.379	
5.20	5.20	7119.20	1.146	3.390	
5.21	5.21	7119.21	1.147	3.401	
5.22	5.22	7119.22	1.148	3.413	
5.23	5.23	7119.23	1.150	3.424	
5.24	5.24	7119.24	1.151	3.435	
5.25	5.25	7119.25	1.152	3.446	
5.26	5.26	7119.26	1.153	3.458	
5.27	5.27	7119.27	1.154	3.469	
5.28	5.28	7119.28	1.155	3.480	
5.29	5.29	7119.29	1.156	3.491	
5.30	5.30	7119.30	1.157	3.503	
5.31	5.31	7119.31	1.158	3.514	
5.32	5.32	7119.32	1.159	3.525	
5.33	5.33	7119.33	1.160	3.536	
5.34	5.34	7119.34	1.162	3.548	
5.35	5.35	7119.35	1.163	3.559	
5.36	5.36	7119.36	1.164	3.570	

5.37	5.37	7033.37	1.887	6.577	
5.38	5.38	7033.38	1.889	6.595	
5.39	5.39	7033.39	1.891	6.613	
5.40	5.39 5.40	7033.39 7033.40	1.891	6.631	
5.41	5.41	7033.41	1.895	6.649	
5.41	5.42	7033.41	1.895	6.667	
5.43	5.43	7033.42	1.897	6.685	
5.44	5.44	7033.44	1.901	6.704	
5.44	5.45	7033.44 7033.45	1.901 1.903	6.722	
5.46	5.46	7033.46	1.905	6.740	
5.47	5.47	7033.40	1.907	6.758	
5.48	5.48	7033.48	1.909	6.776	
5.49	5.49	7033.49	1.905	6.794	
5.50	5.50	7033.40 7033.50	1.911	6.813	
5.51	5.50	7033.51	1.912	6.831	
5.52	5.51	7033.52	1.914	6.849	
5.52	5.53	7033.52	1.918	6.867	
5.54	5.53	7033.54	1.918	6.885	
5.55	5.55 5.55	7033.54 7033.55	1.920	6.903	
5.56	5.56	7033.56	1.924	6.921	
5.57	5.57	7033.50	1.924	6.940	
5.58	5.58	7033.58	1.928	6.958	
5.59	5.59	7033.58	1.928	6.976	
5.60	5.60	7033.60	1.930 1.932	6.994	
5.61	5.61	7033.61	1.934	7.012	
5.62	5.62	7033.62	1.936	7.012	
5.63	5.63	7033.63	1.938	7.048	
5.64	5.64	7033.64	1.940	7.067	
5.65	5.65	7033.65	1.942	7.085	
5.66	5.66	7033.66	1.944	7.103	
5.67	5.67	7033.67	1.946	7.121	
5.68	5.68	7033.68	1.948	7.139	
5.69	5.69	7033.69	1.950	7.157	
5.70	5.70	7033.70	1.951	7.176	
5.71	5.71	7033.71	1.953	7.194	
5.72	5.72	7033.72	1.955	7.212	
5.73	5.73	7033.73	1.957	7.230	
5.74	5.74	7033.74	1.959	7.248	
5.75	5.75	7033.75	1.961	7.266	
5.76	5.76	7033.76	1.963	7.284	
5.77	5.77	7033.77	1.965	7.303	
5.78	5.78	7033.78	1.967	7.321	
5.79	5.79	7033.79	1.969	7.339	
5.80	5.80	7033.80	1.971	7.357	
5.81	5.81	7033.81	1.973	7.375	
5.01	5.81	7033.81	1.575	7.575	

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5.37	5.37	7119.37	1.165	3.581	
5.38	5.38	7119.38	1.166	3.593	
5.39	5.39	7119.39	1.167	3.604	
5.40	5.40	7119.40	1.168	3.615	
5.41	5.41	7119.41	1.169	3.626	
5.42	5.42	7119.42	1.170	3.638	
5.43	5.43	7119.43	1.171	3.649	
5.44	5.44	7119.44	1.172	3.660	
5.45	5.45	7119.45	1.174	3.671	
5.46	5.46	7119.46	1.175	3.683	
5.47	5.47	7119.47	1.176	3.694	
5.48	5.48	7119.48	1.177	3.705	
5.49	5.49	7119.49	1.178	3.716	
5.50	5.50	7119.50	1.179	3.728	
5.51	5.51	7119.51	1.180	3.739	
5.52	5.52	7119.52	1.181	3.750	
5.53	5.53	7119.53	1.182	3.761	
5.54	5.54	7119.54	1.183	3.773	
5.55	5.55	7119.55	1.184	3.784	
5.56	5.56	7119.56	1.186	3.795	
5.57	5.57	7119.57	1.187	3.806	
5.58	5.58	7119.58	1.188	3.818	
5.59	5.59	7119.59	1.189	3.829	
5.60	5.60	7119.60	1.190	3.840	
5.61	5.61	7119.61	1.191	3.851	
5.62	5.62	7119.62	1.192	3.863	
5.63	5.63	7119.63	1.193	3.874	
5.64	5.64	7119.64	1.194	3.885	
5.65	5.65	7119.65	1.195	3.896	
5.66	5.66	7119.66	1.196	3.908	
5.67	5.67	7119.67	1.198	3.919	
5.68	5.68	7119.68	1.199	3.930	
5.69	5.69	7119.69	1.200	3.941	
5.70					
5.70	5.70	7119.70	1.201	3.953	
				3.953	
5.71	5.71	7119.71	1.202	<b>3.953</b> 3.964	
5.71 5.72	5.71 5.72	7119.71 7119.72	1.202 1.203	<b>3.953</b> 3.964 3.975	
5.71 5.72 5.73	5.71 5.72 5.73	7119.71 7119.72 7119.73	1.202 1.203 1.204	<b>3.953</b> 3.964 3.975 3.986	
5.71 5.72 5.73 5.74	5.71 5.72 5.73 5.74	7119.71 7119.72 7119.73 7119.74	1.202 1.203 1.204 1.205	<b>3.953</b> 3.964         3.975         3.986         3.998	
5.71 5.72 5.73 5.74 <b>5.75</b>	5.71 5.72 5.73 5.74 <b>5.75</b>	7119.71 7119.72 7119.73 7119.74 <b>7119.75</b>	1.202 1.203 1.204 1.205 <b>1.206</b>	3.953         3.964         3.975         3.986         3.998         4.009	
5.71 5.72 5.73 5.74 5.75 5.76	5.71 5.72 5.73 5.74 <b>5.75</b> 5.76	7119.71 7119.72 7119.73 7119.74 <b>7119.75</b> 7119.76	1.202         1.203         1.204         1.205         1.206         1.207	3.953         3.964         3.975         3.986         3.998         4.009         4.020	
5.71 5.72 5.73 5.74 <b>5.75</b> 5.76 5.77	5.71 5.72 5.73 5.74 <b>5.75</b> 5.76 5.77	7119.71 7119.72 7119.73 7119.74 <b>7119.75</b> 7119.76 7119.77	1.202 1.203 1.204 1.205 <b>1.206</b> 1.207 1.208	3.953           3.964           3.975           3.986           3.998           4.009           4.020           4.031	
5.71 5.72 5.73 5.74 <b>5.75</b> 5.76 5.77 5.78	5.71 5.72 5.73 5.74 <b>5.75</b> 5.76 5.77 5.78	7119.71 7119.72 7119.73 7119.74 <b>7119.74</b> <b>7119.75</b> 7119.76 7119.77 7119.78	1.202 1.203 1.204 1.205 1.206 1.207 1.208 1.210	3.953           3.964           3.975           3.986           3.998           4.009           4.020           4.031           4.043	
5.71 5.72 5.73 5.74 <b>5.75</b> 5.76 5.77 5.78 5.79	5.71 5.72 5.73 5.74 <b>5.75</b> 5.76 5.77 5.78 5.79	7119.71 7119.72 7119.73 7119.74 <b>7119.75</b> 7119.76 7119.77 7119.78 7119.79	1.202 1.203 1.204 1.205 <b>1.206</b> 1.207 1.208 1.210 1.211	3.953           3.964           3.975           3.986           3.998           4.009           4.020           4.031           4.043           4.054	
5.71 5.72 5.73 5.74 <b>5.75</b> 5.76 5.77 5.78	5.71 5.72 5.73 5.74 <b>5.75</b> 5.76 5.77 5.78	7119.71 7119.72 7119.73 7119.74 <b>7119.74</b> <b>7119.75</b> 7119.76 7119.77 7119.78	1.202 1.203 1.204 1.205 1.206 1.207 1.208 1.210	3.953           3.964           3.975           3.986           3.998           4.009           4.020           4.031           4.043	

5.83	5.83	7033.83	1.977	7.411	
5.84	5.84	7033.84	1.979	7.430	
5.85	5.85	7033.85	1.981	7.448	
5.86	5.86	7033.86	1.983	7.466	
5.87	5.87	7033.87	1.985	7.484	
5.88	5.88	7033.88	1.987	7.502	
5.89	5.89	7033.89	1.989	7.520	
5.90	5.90	7033.90	1.990	7.539	
5.91	5.91	7033.91	1.992	7.557	
5.92	5.92	7033.92	1.994	7.575	
5.93	5.93	7033.93	1.996	7.593	
5.94	5.94	7033.94	1.998	7.611	
5.95	5.95	7033.95	2.000	7.629	
5.96	5.96	7033.96	2.002	7.647	
5.97	5.97	7033.97	2.004	7.666	
5.98	5.98	7033.98	2.006	7.684	
5.99	5.99	7033.99	2.008	7.702	
6.00	6.00	7034.00	2.010	7.720	
6.01	6.01	7034.01	2.013	7.743	
6.02	6.02	7034.02	2.015	7.765	
6.03	6.03	7034.03	2.018	7.788	
6.04	6.04	7034.04	2.020	7.811	
6.05	6.05	7034.05	2.023	7.833	
6.06	6.06	7034.06	2.025	7.856	
6.07	6.07	7034.07	2.028	7.879	
6.08	6.08	7034.08	2.030	7.901	
6.09	6.09	7034.09	2.033	7.924	
6.10	6.10	7034.10	2.035	7.947	
6.11	6.11	7034.11	2.038	7.969	
6.12	6.12	7034.12	2.040	7.992	
6.13	6.13	7034.13	2.043	8.014	
6.14	6.14	7034.14	2.045	8.037	
6.15	6.15	7034.15	2.048	8.060	
6.16	6.16	7034.16	2.050	8.082	
6.17	6.17	7034.17	2.053	8.105	
6.18	6.18	7034.18	2.056	8.128	
6.19	6.19	7034.19	2.058	8.150	
6.20	6.20	7034.20	2.061	8.173	
6.21	6.21	7034.21	2.063	8.196	
6.22	6.22	7034.22	2.066	8.218	
6.23	6.23	7034.23	2.068	8.241	
6.24	6.24	7034.24	2.071	8.264	
6.25	6.25	7034.25	2.073	8.286	
6.26	6.26	7034.26	2.076	8.309	
6.27	6.27	7034.27	2.078	8.332	
6.28	6.28	7034.28	2.081	8.354	

5.02	F 02	7440.00	4 245	4 000	
5.83	5.83	7119.83	1.215	4.099	
5.84 5.85	5.84	7119.84 7119.85	1.216	4.110 <b>4.121</b>	
	5.85		1.217		
5.86	5.86	7119.86	1.218	4.133	
5.87	5.87	7119.87	1.219	4.144	
5.88	5.88	7119.88	1.220	4.155	
5.89	5.89	7119.89	1.222	4.166	
5.90	5.90	7119.90	1.223	4.178	
5.91	5.91	7119.91	1.224	4.189	
5.92	5.92	7119.92	1.225	4.200	
5.93	5.93	7119.93	1.226	4.211	
5.94	5.94	7119.94	1.227	4.223	
5.95	5.95	7119.95	1.228	4.234	
5.96	5.96	7119.96	1.229	4.245	
5.97	5.97	7119.97	1.230	4.256	
5.98	5.98	7119.98	1.231	4.268	
5.99	5.99	7119.99	1.232	4.279	
6.00	6.00	7120.00	1.234	4.290	Spillway / NWS
6.01	6.01	7120.01	1.235	4.302	
6.02	6.02	7120.02	1.237	4.315	
6.03	6.03	7120.03	1.239	4.327	
6.04	6.04	7120.04	1.241	4.339	
6.05	6.05	7120.05	1.243	4.352	
6.06	6.06	7120.06	1.245	4.364	
6.07	6.07	7120.07	1.246	4.376	
6.08	6.08	7120.08	1.248	4.389	
6.09	6.09	7120.09	1.250	4.401	
6.10	6.10	7120.10	1.252	4.414	
6.11	6.11	7120.11	1.254	4.426	
6.12	6.12	7120.12	1.256	4.438	
6.13	6.13	7120.13	1.257	4.451	
6.14	6.14	7120.14	1.259	4.463	
6.15	6.15	7120.15	1.261	4.475	
6.16	6.16	7120.16	1.263	4.488	
6.17	6.17	7120.17	1.265	4.500	
6.18	6.18	7120.18	1.267	4.512	
6.19	6.19	7120.19	1.268	4.525	
6.20	6.20	7120.20	1.270	4.537	
6.21	6.21	7120.21	1.272	4.549	
6.22	6.22	7120.22	1.274	4.562	
6.23	6.23	7120.23	1.276	4.574	
6.24	6.24	7120.24	1.278	4.586	
6.25	6.25	7120.25	1.280	4.599	
6.26	6.26	7120.26	1.281	4.611	
6.27	6.27	7120.27	1.283	4.623	
6.28	6.28	7120.28	1.285	4.636	
					1

6.29	6.29	7034.29	2.083	8.377	
6.30	6.30	7034.30	2.086	8.400	
6.31	6.31	7034.31	2.088	8.422	
6.32	6.32	7034.32	2.091	8.445	
6.33	6.33	7034.33	2.093	8.467	
6.34	6.34	7034.34	2.096	8.490	
6.35	6.35	7034.35	2.099	8.513	
6.36	6.36	7034.36	2.101	8.535	
6.37	6.37	7034.37	2.104	8.558	
6.38	6.38	7034.38	2.106	8.581	
6.39	6.39	7034.39	2.109	8.603	
6.40	6.40	7034.40	2.111	8.626	
6.41	6.41	7034.41	2.114	8.649	
6.42	6.42	7034.42	2.116	8.671	
6.43	6.43	7034.43	2.119	8.694	
6.44	6.44	7034.44	2.121	8.717	
6.45	6.45	7034.45	2.124	8.739	
6.46	6.46	7034.46	2.126	8.762	
6.47	6.47	7034.47	2.129	8.785	
6.48	6.48	7034.48	2.131	8.807	
6.49	6.49	7034.49	2.134	8.830	
6.50	6.50	7034.50	2.137	8.853	
6.51	6.51	7034.51	2.139	8.875	
6.52	6.52	7034.52	2.142	8.898	
6.53	6.53	7034.53	2.144	8.920	
6.54	6.54	7034.54	2.147	8.943	
6.55	6.55	7034.55	2.149	8.966	
6.56	6.56	7034.56	2.152	8.988	
6.57	6.57	7034.57	2.154	9.011	
6.58	6.58	7034.58	2.157	9.034	
6.59	6.59	7034.59	2.159	9.056	
6.60	6.60	7034.60	2.162	9.079	
6.61	6.61	7034.61	2.164	9.102	
6.62	6.62	7034.62	2.167	9.124	
6.63	6.63	7034.63	2.169	9.147	
6.64	6.64	7034.64	2.172	9.170	
6.65	6.65	7034.65	2.174	9.192	
6.66	6.66	7034.66	2.177	9.215	
6.67	6.67	7034.67	2.180	9.238	
6.68	6.68	7034.68	2.182	9.260	
6.69	6.69	7034.69	2.185	9.283	
6.70	6.70	7034.70	2.187	9.306	
6.71	6.71	7034.71	2.190	9.328	
6.72	6.72	7034.72	2.192	9.351	
6.73	6.73	7034.73	2.195	9.373	
6.74	6.74	7034.74	2.197	9.396	

6.29	6.29	7120.29	1.287	4.648	
6.30	6.30	7120.30	1.289	4.661	
6.31	6.31	7120.31	1.291	4.673	
6.32	6.32	7120.32	1.292	4.685	
6.33	6.33	7120.33	1.294	4.698	
6.34	6.34	7120.34	1.296	4.710	
6.35	6.35	7120.35	1.298	4.722	
6.36	6.36	7120.36	1.300	4.735	
6.37	6.37	7120.37	1.302	4.747	
6.38	6.38	7120.38	1.303	4.759	
6.39	6.39	7120.39	1.305	4.772	
6.40	6.40	7120.40	1.307	4.784	
6.41	6.41	7120.41	1.309	4.796	
6.42	6.42	7120.42	1.311	4.809	
6.43	6.43	7120.43	1.313	4.821	
6.44	6.44	7120.44	1.314	4.833	
6.45	6.45	7120.45	1.316	4.846	
6.46	6.46	7120.46	1.318	4.858	
6.47	6.47	7120.47	1.320	4.870	
6.48	6.48	7120.48	1.322	4.883	
6.49	6.49	7120.49	1.324	4.895	
6.50	6.50	7120.50	1.326	4.907	
6.51	6.51	7120.51	1.327	4.920	
6.52	6.52	7120.52	1.329	4.932	
6.53	6.53	7120.53	1.331	4.945	
6.54	6.54	7120.54	1.333	4.957	
6.55	6.55	7120.55	1.335	4.969	
6.56	6.56	7120.56	1.337	4.982	
6.57	6.57	7120.57	1.338	4.994	
6.58	6.58	7120.58	1.340	5.006	
6.59	6.59	7120.59	1.342	5.019	
6.60	6.60	7120.60	1.344	5.031	
6.61	6.61	7120.61	1.346	5.043	
6.62	6.62	7120.62	1.348	5.056	
6.63	6.63	7120.63	1.349	5.068	
6.64	6.64	7120.64	1.351	5.080	
6.65	6.65	7120.65	1.353	5.093	
6.66	6.66	7120.66	1.355	5.105	
6.67	6.67	7120.67	1.357	5.117	
6.68	6.68	7120.68	1.359	5.130	
6.69	6.69	7120.69	1.360	5.142	
6.70	6.70	7120.70	1.362	5.154	
6.71	6.71	7120.71	1.364	5.167	
6.72	6.72	7120.72	1.366	5.179	
6.73	6.73	7120.73	1.368	5.192	
6.74	6.74	7120.74	1.370	5.204	

6.75	6.75	7034.75	2.200	9.419	
6.76	6.76	7034.76	2.202	9.441	
6.77	6.77	7034.77	2.205	9.464	
6.78	6.78	7034.78	2.207	9.487	
6.79	6.79	7034.79	2.210	9.509	
6.80	6.80	7034.80	2.212	9.532	
6.81	6.81	7034.81	2.215	9.555	
6.82	6.82	7034.82	2.217	9.577	
6.83	6.83	7034.83	2.220	9.600	
6.84	6.84	7034.84	2.223	9.623	
6.85	6.85	7034.85	2.225	9.645	
6.86	6.86	7034.86	2.228	9.668	
6.87	6.87	7034.87	2.230	9.691	
6.88	6.88	7034.88	2.233	9.713	
6.89	6.89	7034.89	2.235	9.736	
6.90	6.90	7034.90	2.238	9.759	
6.91	6.91	7034.91	2.240	9.781	
6.92	6.92	7034.92	2.243	9.804	
6.93	6.93	7034.93	2.245	9.826	
6.94	6.94	7034.94	2.248	9.849	
6.95	6.95	7034.95	2.250	9.872	
6.96	6.96	7034.96	2.253	9.894	
6.97	6.97	7034.97	2.255	9.917	
6.98	6.98	7034.98	2.258	9.940	
6.99	6.99	7034.99	2.260	9.962	
7.00	7.00	7035.00	2.263	9.985	
7.01	7.01	7035.01	2.266	10.008	
7.02	7.02	7035.02	2.268	10.030	
7.03	7.03	7035.03	2.271	10.053	
7.04	7.04	7035.04	2.273	10.076	
7.05	7.05	7035.05	2.276	10.098	
7.06	7.06	7035.06	2.278	10.121	
7.07	7.07	7035.07	2.281	10.144	
7.08	7.08	7035.08	2.283	10.166	
7.09	7.09	7035.09	2.286	10.189	
7.10	7.10	7035.10	2.288	10.212	
7.11	7.11	7035.11	2.291	10.234	
7.12	7.12	7035.12	2.293	10.257	
7.13	7.13	7035.13	2.296	10.279	
7.14	7.14	7035.14	2.298	10.302	
7.15	7.15	7035.15	2.301	10.325	
7.16	7.16	7035.16	2.303	10.347	
7.17	7.17	7035.17	2.306	10.370	
7.18	7.18	7035.18	2.309	10.393	
7.19	7.19	7035.19	2.311	10.415	
7.20	7.20	7035.20	2.314	10.438	

6.75	6.75	7120.75	1.372	5.216	
6.76	6.76	7120.76	1.373	5.229	
6.77	6.77	7120.77	1.375	5.241	
6.78	6.78	7120.78	1.377	5.253	
6.79	6.79	7120.79	1.379	5.266	
6.80	6.80	7120.80	1.381	5.278	
6.81	6.81	7120.81	1.383	5.290	
6.82	6.82	7120.82	1.384	5.303	
6.83	6.83	7120.83	1.386	5.315	
6.84	6.84	7120.84	1.388	5.327	
6.85	6.85	7120.85	1.390	5.340	
6.86	6.86	7120.86	1.392	5.352	
6.87	6.87	7120.87	1.394	5.364	
6.88	6.88	7120.88	1.395	5.377	
6.89	6.89	7120.89	1.397	5.389	
6.90	6.90	7120.90	1.399	5.401	
6.91	6.91	7120.91	1.401	5.414	
6.92	6.92	7120.92	1.403	5.426	
6.93	6.93	7120.93	1.405	5.439	
6.94	6.94	7120.94	1.406	5.451	
6.95	6.95	7120.95	1.408	5.463	
6.96	6.96	7120.96	1.410	5.476	
6.97	6.97	7120.97	1.412	5.488	
6.98	6.98	7120.98	1.414	5.500	
6.99	6.99	7120.99	1.416	5.513	
7.00	7.00	7121.00	1.418	5.525	
7.01	7.01	7121.01	1.419	5.537	
7.02	7.02	7121.02	1.421	5.550	
7.02	7.02	7121.02	1.423	5.562	
7.04	7.04	7121.03	1.425	5.574	
7.05	7.05	7121.05	1.427	5.587	
7.06	7.06	7121.06	1.429	5.599	
7.07	7.07	7121.07	1.430	5.611	
7.08	7.08	7121.08	1.432	5.624	
7.09	7.09	7121.09	1.434	5.636	
7.10	7.10	7121.10	1.436	5.648	
7.11	7.11	7121.11	1.438	5.661	
7.12	7.12	7121.11	1.440	5.673	
7.12	7.12	7121.12	1.441	5.686	
7.13	7.13	7121.13	1.443	5.698	
7.15	7.15	7121.15	1.445	5.710	
7.16	7.16	7121.16	1.447	5.723	
7.17	7.10	7121.10	1.449	5.735	
7.18	7.18	7121.17	1.451	5.747	
7.10	7.10	7121.10	1.452	5.760	
7.20	7.10	7121.19	1.454	5.772	
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7.21	7.21	7035.21	2.316	10.461	
7.22	7.22	7035.22	2.319	10.483	
7.23	7.23	7035.23	2.321	10.506	
7.24	7.24	7035.24	2.324	10.529	
7.25	7.25	7035.25	2.326	10.551	
7.26	7.26	7035.26	2.329	10.574	
7.27	7.27	7035.27	2.331	10.597	
7.28	7.28	7035.28	2.334	10.619	
7.29	7.29	7035.29	2.336	10.642	
7.30	7.30	7035.30	2.339	10.665	
7.31	7.31	7035.31	2.341	10.687	
7.32	7.32	7035.32	2.344	10.710	
7.33	7.33	7035.33	2.346	10.732	
7.34	7.34	7035.34	2.349	10.755	
7.35	7.35	7035.35	2.352	10.778	
7.36	7.36	7035.36	2.354	10.800	
7.37	7.37	7035.37	2.357	10.823	
7.38	7.38	7035.38	2.359	10.846	
7.39	7.39	7035.39	2.362	10.868	
7.40	7.40	7035.40	2.364	10.891	
7.41	7.41	7035.41	2.367	10.914	
7.42	7.41	7035.41	2.369	10.936	
7.43	7.42	7035.42	2.305	10.959	
7.44	7.44	7035.44	2.372	10.982	
7.45	7.45	7035.45	2.377	11.004	
7.46	7.46	7035.46	2.379	11.027	
7.47	7.47	7035.47	2.382	11.050	
7.48	7.48	7035.48	2.384	11.072	
7.49	7.49	7035.49	2.387	11.095	
7.50	7.50	7035.50	2.390	11.118	
7.51	7.51	7035.51	2.392	11.140	
7.52	7.52	7035.52	2.395	11.163	
7.53	7.53	7035.53	2.397	11.185	
7.54	7.54	7035.54	2.400	11.208	
7.55	7.55	7035.55	2.402	11.231	
7.56	7.56	7035.56	2.405	11.253	
7.57	7.57	7035.57	2.407	11.276	
7.58	7.58	7035.58	2.410	11.299	
7.59	7.59	7035.59	2.412	11.321	
7.60	7.60	7035.60	2.415	11.344	
7.61	7.61	7035.61	2.417	11.367	
7.62	7.62	7035.62	2.420	11.389	
7.63	7.63	7035.63	2.422	11.412	
7.64	7.64	7035.64	2.425	11.435	
7.65	7.65	7035.65	2.427	11.457	
7.66	7.66	7035.66	2.430	11.480	

7.21	7.21	7121.21	1.456	5.784	
7.22	7.21	7121.22	1.458	5.797	
7.23	7.23	7121.23	1.460	5.809	
7.24	7.24	7121.24	1.462	5.821	
7.25	7.25	7121.25	1.464	5.834	
7.26	7.26	7121.26	1.465	5.846	
7.27	7.27	7121.27	1.467	5.858	
7.28	7.28	7121.28	1.469	5.871	
7.29	7.29	7121.29	1.471	5.883	
7.30	7.30	7121.30	1.473	5.895	
7.31	7.31	7121.31	1.475	5.908	
7.32	7.32	7121.32	1.476	5.920	
7.33	7.33	7121.33	1.478	5.933	
7.34	7.34	7121.34	1.480	5.945	
7.35	7.35	7121.35	1.482	5.957	
7.36	7.36	7121.36	1.484	5.970	
7.37	7.37	7121.37	1.486	5.982	
7.38	7.38	7121.38	1.487	5.994	
7.39	7.39	7121.39	1.489	6.007	
7.40	7.40	7121.40	1.491	6.019	
7.41	7.41	7121.41	1.493	6.031	
7.42	7.42	7121.42	1.495	6.044	
7.43	7.43	7121.43	1.497	6.056	
7.44	7.44	7121.44	1.498	6.068	
7.45	7.45	7121.45	1.500	6.081	
7.46	7.46	7121.46	1.502	6.093	
7.47	7.47	7121.47	1.504	6.105	
7.48	7.48	7121.48	1.506	6.118	
7.49	7.49	7121.49	1.508	6.130	
7.50	7.50	7121.50	1.510	6.142	
7.51	7.51	7121.51	1.511	6.155	
7.52	7.52	7121.52	1.513	6.167	
7.53	7.53	7121.53	1.515	6.180	
7.54	7.54	7121.54	1.517	6.192	
7.55	7.55	7121.55	1.519	6.204	
7.56	7.56	7121.56	1.521	6.217	
7.57	7.57	7121.57	1.522	6.229	
7.58	7.58	7121.58	1.524	6.241	
7.59	7.59	7121.59	1.526	6.254	
7.60	7.60	7121.60	1.528	6.266	
7.61	7.61	7121.61	1.530	6.278	
7.62	7.62	7121.62	1.532	6.291	
7.63	7.63	7121.63	1.533	6.303	
7.64	7.64	7121.64	1.535	6.315	
7.65	7.65	7121.65	1.537	6.328	
7.66	7.66	7121.66	1.539	6.340	

7.67	7.67	7035.67	2.433	11.503	
7.68	7.68	7035.68	2.435	11.503	
7.69	7.69	7035.69	2.433	11.525	
7.89	7.09	7035.09 7035.70	2.438 2.440	11.548 11.571	
7.71	7.71	7035.70	2.443	11.571	
7.72	7.72		2.443		
		7035.72		11.616	
7.73	7.73	7035.73	2.448	11.638	
7.74	7.74	7035.74	2.450	11.661	
7.75	7.75	7035.75	2.453	11.684	
7.76	7.76	7035.76	2.455	11.706	
7.77	7.77	7035.77	2.458	11.729	
7.78	7.78	7035.78	2.460	11.752	
7.79	7.79	7035.79	2.463	11.774	
7.80	7.80	7035.80	2.465	11.797	
7.81	7.81	7035.81	2.468	11.820	
7.82	7.82	7035.82	2.470	11.842	
7.83	7.83	7035.83	2.473	11.865	
7.84	7.84	7035.84	2.476	11.888	
7.85	7.85	7035.85	2.478	11.910	
7.86	7.86	7035.86	2.481	11.933	
7.87	7.87	7035.87	2.483	11.956	
7.88	7.88	7035.88	2.486	11.978	
7.89	7.89	7035.89	2.488	12.001	
7.90	7.90	7035.90	2.491	12.024	
7.91	7.91	7035.91	2.493	12.046	
7.92	7.92	7035.92	2.496	12.069	
7.93	7.93	7035.93	2.498	12.091	
7.94	7.94	7035.94	2.501	12.114	
7.95	7.95	7035.95	2.503	12.137	
7.96	7.96	7035.96	2.506	12.159	
7.97	7.97	7035.97	2.508	12.182	
7.98	7.98	7035.98	2.511	12.205	
7.99	7.99	7035.99	2.513	12.227	
8.00	8.00	7036.00	2.516	12.250	Spillway Crest / NWS
8.01	8.01	7036.01	2.522	12.276	
8.02	8.02	7036.02	2.527	12.301	
8.03	8.03	7036.03	2.533	12.327	
8.04	8.04	7036.04	2.538	12.353	
8.05	8.05	7036.05	2.544	12.379	
8.06	8.06	7036.06	2.549	12.404	
8.07	8.07	7036.07	2.555	12.430	
8.08	8.08	7036.08	2.560	12.456	
8.09	8.09	7036.09	2.566	12.481	
8.10	8.10	7036.10	2.571	12.507	
8.11	8.11	7036.11	2.577	12.533	
8.12	8.12	7036.12	2.582	12.555	
0.12	0.12	7030.12	2.302	12.330	

	1		1		
7.67	7.67	7121.67	1.541	6.352	
7.68	7.68	7121.68	1.543	6.365	
7.69	7.69	7121.69	1.544	6.377	
7.70	7.70	7121.70	1.546	6.389	
7.71	7.71	7121.71	1.548	6.402	
7.72	7.72	7121.72	1.550	6.414	
7.73	7.73	7121.73	1.552	6.427	
7.74	7.74	7121.74	1.554	6.439	
7.75	7.75	7121.75	1.556	6.451	
7.76	7.76	7121.76	1.557	6.464	
7.77	7.77	7121.77	1.559	6.476	
7.78	7.78	7121.78	1.561	6.488	
7.79	7.79	7121.79	1.563	6.501	
7.80	7.80	7121.80	1.565	6.513	
7.81	7.81	7121.81	1.567	6.525	
7.82	7.82	7121.82	1.568	6.538	
7.83	7.83	7121.83	1.570	6.550	
7.84	7.84	7121.84	1.572	6.562	
7.85	7.85	7121.85	1.574	6.575	
7.86	7.86	7121.86	1.576	6.587	
7.87	7.87	7121.87	1.578	6.599	
7.88	7.88	7121.88	1.579	6.612	
7.89	7.89	7121.89	1.581	6.624	
7.90	7.90	7121.90	1.583	6.636	
7.91	7.91	7121.91	1.585	6.649	
7.92	7.92	7121.92	1.587	6.661	
7.93	7.93	7121.93	1.589	6.674	
7.94	7.94	7121.94	1.590	6.686	
7.95	7.95	7121.95	1.592	6.698	
7.96	7.96	7121.96	1.594	6.711	
7.97	7.97	7121.97	1.596	6.723	
7.98	7.98	7121.98	1.598	6.735	
7.99	7.99	7121.99	1.600	6.748	
8.00	8.00	7122.00	1.602	6.760	
8.01	8.01	7122.01	1.606	6.776	
8.02	8.02	7122.02	1.611	6.792	
8.03	8.03	7122.03	1.616	6.808	
8.04	8.04	7122.04	1.620	6.824	
8.05	8.05	7122.05	1.625	6.840	
8.06	8.06	7122.06	1.630	6.856	
8.07	8.07	7122.07	1.635	6.872	
8.08	8.08	7122.08	1.639	6.888	
8.09	8.09	7122.09	1.644	6.904	
8.10	8.10	7122.10	1.649	6.920	
8.11				1	
	8.11	7122.11	1.654	6.936	
8.12	8.11 8.12	7122.11 7122.12	1.654 1.658	6.936 6.952	

8.13	8.13	7036.13	2.588	12.584	
8.14	8.14	7036.14	2.593	12.610	
8.15	8.15	7036.15	2.599	12.636	
8.16	8.16	7036.16	2.604	12.661	
8.10	8.10	7036.17	2.610	12.687	
8.18	8.18	7036.18	2.615	12.713	
8.19	8.19	7036.19	2.620	12.738	
8.19	8.19	7036.20	2.626 2.626	12.758 12.764	
8.21	8.21	7036.21	2.631	12.790	
8.22	8.22	7036.22	2.637	12.815	
8.23	8.23	7036.22	2.642	12.815	
8.23	8.23	7036.23	2.648	12.841	
8.24	8.24 8.25	7030.24 7036.25	2.048 2.653	12.807 12.893	
8.26	8.26	7036.26	2.659	12.918	
8.20	8.20			12.918	
8.27	8.27	7036.27 7036.28	2.664 2.670	12.944	
8.28	8.28	7036.28	2.670	12.970	
8.30	8.30	7036.29 7036.30	2.675 2.681	12.995 13.021	
8.31	8.31	7036.31	2.686	13.047	
8.32	8.32	7036.32	2.692	13.072	
8.33	8.33	7036.33	2.697	13.098	
8.34 8.35	8.34 8.35	7036.34 7036.35	2.703 2.708	13.124 13.150	
8.36	8.36	7036.36	2.714	13.175	
8.37	8.37	7036.37	2.719	13.201	
8.38	8.38	7036.38	2.725	13.227	
8.39	8.39	7036.39	2.730	13.252	
8.40	8.40	7036.40	2.736	13.278	
8.41	8.41	7036.41	2.741	13.304	
8.42	8.42	7036.42	2.747	13.329	
8.43	8.43	7036.43	2.752	13.355	
8.44	8.44	7036.44	2.757	13.381	
8.45	8.45	7036.45	2.763	13.407	
8.46	8.46	7036.46	2.768	13.432	
8.47	8.47	7036.47	2.774	13.458	
8.48	8.48	7036.48	2.779	13.484	
8.49	8.49	7036.49	2.785	13.509	
8.50	8.50	7036.50	2.790	13.535	
8.51	8.51	7036.51	2.796	13.561	
8.52	8.52	7036.52	2.801	13.586	
8.53	8.53	7036.53	2.807	13.612	
8.54	8.54	7036.54	2.812	13.638	
8.55	8.55	7036.55	2.818	13.664	
8.56	8.56	7036.56	2.823	13.689	
8.57	8.57	7036.57	2.829	13.715	
8.58	8.58	7036.58	2.834	13.741	

8.13	8.13	7122.13	1.663	6.968	
8.14	8.14	7122.14	1.668	6.984	
8.15	8.15	7122.15	1.672	7.000	
8.16	8.16	7122.16	1.677	7.016	
8.17	8.17	7122.17	1.682	7.032	
8.18	8.18	7122.18	1.687	7.048	
8.19	8.19	7122.19	1.691	7.064	
8.20	8.20	7122.20	1.696	7.080	
8.21	8.21	7122.21	1.701	7.096	
8.22	8.22	7122.22	1.706	7.112	
8.23	8.23	7122.23	1.710	7.128	
8.24	8.24	7122.24	1.715	7.144	
8.25	8.25	7122.25	1.720	7.160	
8.26	8.26	7122.26	1.724	7.176	
8.27	8.27	7122.27	1.729	7.192	
8.28	8.28	7122.28	1.734	7.208	
8.29	8.29	7122.29	1.739	7.224	
8.30	8.30	7122.30	1.743	7.240	
8.31	8.31	7122.31	1.748	7.256	
8.32	8.32	7122.32	1.753	7.272	
8.33	8.33	7122.33	1.758	7.288	
8.34	8.34	7122.34	1.762	7.304	
8.35	8.35	7122.35	1.767	7.320	
8.36	8.36	7122.36	1.772	7.336	
8.37	8.37	7122.37	1.777	7.352	
8.38	8.38	7122.38	1.781	7.368	
8.39	8.39	7122.39	1.786	7.384	
8.40	8.40	7122.40	1.791	7.400	
8.41	8.41	7122.41	1.795	7.416	
8.42	8.42	7122.42	1.800	7.432	
8.43	8.43	7122.43	1.805	7.448	
8.44	8.44	7122.44	1.810	7.464	
8.45	8.45	7122.45	1.814	7.480	
8.46	8.46	7122.46	1.819	7.496	
8.47	8.47	7122.47	1.824	7.512	
8.48	8.48	7122.48	1.829	7.528	
8.49	8.49	7122.49	1.833	7.544	
8.50	8.50	7122.50	1.838	7.560	
8.51	8.51	7122.51	1.843	7.576	
8.52	8.52	7122.52	1.847	7.592	
8.53	8.53	7122.53	1.852	7.608	
8.54	8.54	7122.54	1.857	7.624	
8.55	8.55	7122.55	1.862	7.640	
8.56	8.56	7122.56	1.866	7.656	
8.57	8.57	7122.57	1.871	7.672	
8.58	8.58	7122.58	1.876	7.688	
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8.59	8.59	7036.59	2.840	13.766	
8.60	8.60	7036.60	2.845	13.792	
8.61	8.61	7036.61	2.851	13.818	
8.62	8.62	7036.62	2.856	13.843	
8.63	8.63	7036.63	2.862	13.869	
8.64	8.64	7036.64	2.867	13.895	
8.65	8.65	7036.65	2.873	13.921	
8.66	8.66	7036.66	2.878	13.946	
8.67	8.67	7036.67	2.884	13.972	
8.68	8.68	7036.68	2.889	13.998	
8.69	8.69	7036.69	2.894	14.023	
8.70	8.70	7036.70	2.900	14.049	
8.71	8.71	7036.71	2.905	14.075	
8.72	8.72	7036.72	2.911	14.100	
8.73	8.73	7036.73	2.916	14.126	
8.74	8.74	7036.74	2.922	14.152	
8.75	8.75	7036.75	2.927	14.178	
8.76	8.76	7036.76	2.933	14.203	
8.77	8.77	7036.77	2.938	14.229	
8.78	8.78	7036.78	2.944	14.255	
8.79	8.79	7036.79	2.949	14.280	
8.80	8.80	7036.80	2.955	14.306	
8.81	8.81	7036.81	2.960	14.332	
8.82	8.82	7036.82	2.966	14.357	
8.83	8.83	7036.83	2.971	14.383	
8.84	8.84	7036.84	2.977	14.409	
8.85	8.85	7036.85	2.982	14.435	
8.86	8.86	7036.86	2.988	14.460	
8.87	8.87	7036.87	2.993	14.486	
8.88	8.88	7036.88	2.999	14.512	
8.89	8.89	7036.89	3.004	14.537	
8.90	8.90	7036.90	3.010	14.563	
8.91	8.91	7036.91	3.015	14.589	
8.92	8.92	7036.92	3.021	14.614	
8.93	8.93	7036.93	3.026	14.640	
8.94	8.94	7036.94	3.031	14.666	
8.95	8.95	7036.95	3.037	14.692	
8.96	8.96	7036.96	3.042	14.717	
8.97	8.97	7036.97	3.048	14.743	
8.98	8.98	7036.98	3.053	14.769	
8.99	8.99	7036.99	3.059	14.794	
9.00	9.00	7037.00	3.064	14.820	
9.01	9.01	7037.01	3.070	14.846	
9.02	9.02	7037.02	3.075	14.871	
9.03	9.03	7037.03	3.081	14.897	
9.04	9.04	7037.04	3.086	14.923	

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8.59	8.59	7122.59	1.881	7.704	
8.60	8.60	7122.60	1.885	7.720	
8.61	8.61	7122.61	1.890	7.736	
8.62	8.62	7122.62	1.895	7.752	
8.63	8.63	7122.63	1.899	7.768	
8.64	8.64	7122.64	1.904	7.784	
8.65	8.65	7122.65	1.909	7.800	
8.66	8.66	7122.66	1.914	7.816	
8.67	8.67	7122.67	1.918	7.832	
8.68	8.68	7122.68	1.923	7.848	
8.69	8.69	7122.69	1.928	7.864	
8.70	8.70	7122.70	1.933	7.880	
8.71	8.71	7122.71	1.937	7.896	
8.72	8.72	7122.72	1.942	7.912	
8.73	8.73	7122.73	1.947	7.928	
8.74	8.74	7122.74	1.952	7.944	
8.75	8.75	7122.75	1.956	7.960	
8.76	8.76	7122.76	1.961	7.976	
8.77	8.77	7122.77	1.966	7.992	
8.78	8.78	7122.78	1.970	8.008	
8.79	8.79	7122.79	1.975	8.024	
8.80	8.80	7122.80	1.980	8.040	
8.81	8.81	7122.81	1.985	8.056	
8.82	8.82	7122.82	1.989	8.072	
8.83	8.83	7122.83	1.994	8.088	
8.84	8.84	7122.84	1.999	8.104	
8.85	8.85	7122.85	2.004	8.120	
8.86	8.86	7122.86	2.008	8.136	
8.87	8.87	7122.87	2.013	8.152	
8.88	8.88	7122.88	2.018	8.168	
8.89	8.89	7122.89	2.022	8.184	
8.90	8.90	7122.90	2.027	8.200	
8.91	8.91	7122.91	2.032	8.216	
8.92	8.92	7122.92	2.037	8.232	
8.93	8.93	7122.92	2.037	8.248	
8.94	8.94	7122.93	2.046	8.264	
8.95	8.95	7122.94	2.040	8.280	
8.96	8.96	7122.96	2.056	8.296	
8.97	8.97	7122.90	2.060	8.312	
8.98	8.98	7122.98	2.065	8.328	
8.99	8.99	7122.99	2.070	8.344	
9.00	9.00	7123.00	2.075	8.360	
9.01	9.01	7123.01	2.079	8.376	
9.02	9.02	7123.02	2.084	8.392	
9.03	9.03	7123.02	2.089	8.408	
9.04	9.04	7123.03	2.003	8.424	
5.01	5.01	,120.04	2.000	0.127	1

9.05	9.05	7037.05	3.092	14.949	
9.06	9.06	7037.06	3.097	14.974	
9.07	9.07	7037.07	3.103	15.000	
9.08	9.08	7037.08	3.108	15.026	
9.09	9.09	7037.09	3.114	15.051	
9.10	9.10	7037.10	3.119	15.077	
9.11	9.11	7037.11	3.125	15.103	
9.12	9.12	7037.12	3.130	15.128	
9.13	9.13	7037.13	3.136	15.154	
9.14	9.14	7037.14	3.141	15.180	
9.15	9.15	7037.15	3.147	15.206	
9.16	9.16	7037.16	3.152	15.231	
9.17	9.17	7037.17	3.158	15.257	
9.18	9.18	7037.18	3.163	15.283	
9.19	9.19	7037.19	3.168	15.308	
9.20	9.20	7037.20	3.174	15.334	
9.21	9.21	7037.21	3.179	15.360	
9.22	9.22	7037.22	3.185	15.385	
9.23	9.23	7037.23	3.190	15.411	
9.24	9.24	7037.24	3.196	15.437	
9.25	9.25	7037.25	3.201	15.463	
9.26	9.26	7037.26	3.207	15.488	
9.27	9.27	7037.27	3.212	15.514	
9.28	9.28	7037.28	3.218	15.540	
9.29	9.29	7037.29	3.223	15.565	
9.30	9.30	7037.30	3.229	15.591	
9.31	9.31	7037.31	3.234	15.617	
9.32	9.32	7037.32	3.240	15.642	
9.33	9.33	7037.33	3.245	15.668	
9.34	9.34	7037.34	3.251	15.694	
9.35	9.35	7037.35	3.256	15.720	
9.36	9.36	7037.36	3.262	15.745	
9.37	9.37	7037.37	3.267	15.771	
9.38	9.38	7037.38	3.273	15.797	
9.39	9.39	7037.39	3.278	15.822	
9.40	9.40	7037.40	3.284	15.848	
9.41	9.41	7037.41	3.289	15.874	
9.42	9.42	7037.42	3.295	15.899	
9.43	9.43	7037.43	3.300	15.925	
9.44	9.44	7037.44	3.305	15.951	
9.45	9.45	7037.45	3.311	15.977	
9.46	9.46	7037.46	3.316	16.002	
9.47	9.47	7037.47	3.322	16.028	
9.48	9.48	7037.48	3.327	16.054	
9.49	9.49	7037.49	3.333	16.079	
9.50	9.50	7037.50	3.338	16.105	

9.05	9.05	7123.05	2.098	8.440	
9.06	9.06	7123.06	2.103	8.456	
9.07	9.07	7123.07	2.108	8.472	
9.08	9.08	7123.08	2.112	8.488	
9.09	9.09	7123.09	2.117	8.504	
9.10	9.10	7123.10	2.122	8.520	
9.11	9.11	7123.11	2.127	8.536	
9.12	9.12	7123.12	2.131	8.552	
9.13	9.13	7123.13	2.136	8.568	
9.14	9.14	7123.14	2.141	8.584	
9.15	9.15	7123.15	2.145	8.600	
9.16	9.16	7123.16	2.150	8.616	
9.17	9.17	7123.17	2.155	8.632	
9.18	9.18	7123.18	2.160	8.648	
9.19	9.19	7123.19	2.164	8.664	
9.20	9.20	7123.20	2.169	8.680	
9.21	9.21	7123.21	2.174	8.696	
9.22	9.22	7123.22	2.179	8.712	
9.23	9.23	7123.23	2.183	8.728	
9.24	9.24	7123.24	2.188	8.744	
9.25	9.25	7123.25	2.193	8.760	
9.26	9.26	7123.26	2.197	8.776	
9.27	9.27	7123.27	2.202	8.792	
9.28	9.28	7123.28	2.207	8.808	
9.29	9.29	7123.29	2.212	8.824	
9.30	9.30	7123.30	2.216	8.840	
9.31	9.31	7123.31	2.221	8.856	
9.32	9.32	7123.32	2.226	8.872	
9.33	9.33	7123.33	2.231	8.888	
9.34	9.34	7123.34	2.235	8.904	
9.35	9.35	7123.35	2.240	8.920	
9.36	9.36	7123.36	2.245	8.936	
9.37	9.37	7123.37	2.250	8.952	
9.38	9.38	7123.38	2.254	8.968	
9.39	9.39	7123.39	2.259	8.984	
9.40	9.40	7123.40	2.264	9.000	
9.41	9.41	7123.41	2.268	9.016	
9.42	9.42	7123.42	2.273	9.032	
9.43	9.43	7123.43	2.278	9.048	
9.44	9.44	7123.44	2.283	9.064	
9.45	9.45	7123.45	2.287	9.080	
9.46	9.46	7123.46	2.292	9.096	
9.47	9.47	7123.47	2.297	9.112	
9.48	9.48	7123.48	2.302	9.128	
9.49	9.49	7123.49	2.306	9.144	
9.50	9.50	7123.50	2.311	9.160	

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9.53	9.53	7037.53	3.355	16.182	
9.54	9.54	7037.54	3.360	16.208	
9.55	9.55	7037.55	3.366	16.234	
9.56	9.56	7037.56	3.371	16.259	
9.57	9.57	7037.57	3.377	16.285	
9.58	9.58	7037.58	3.382	16.311	
9.59	9.59	7037.59	3.388	16.336	
9.60	9.60	7037.60	3.393	16.362	
9.61	9.61	7037.61	3.399	16.388	
9.62	9.62	7037.62	3.404	16.413	
9.63	9.63	7037.63	3.410	16.439	
9.64	9.64	7037.64	3.415	16.465	
9.65	9.65	7037.65	3.421	16.491	
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9.67	9.67	7037.67	3.432	16.542	
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9.69	9.69	7037.69	3.442	16.593	
9.70	9.70	7037.70	3.448	16.619	
9.71	9.71	7037.71	3.453	16.645	
9.72	9.72	7037.72	3.459	16.670	
9.73	9.73	7037.73	3.464	16.696	
9.74	9.74	7037.74	3.470	16.722	
9.75	9.75	7037.75	3.475	16.748	
9.76	9.76	7037.76	3.481	16.773	
9.77	9.77	7037.77	3.486	16.799	
9.78	9.78	7037.78	3.492	16.825	
9.79	9.79	7037.79	3.497	16.850	
9.80	9.80	7037.80	3.503	16.876	
9.81	9.81	7037.81	3.508	16.902	
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9.86	9.86	7037.86	3.536	17.030	
9.87	9.87	7037.87	3.541	17.056	
9.88	9.88	7037.88	3.547	17.082	
9.89	9.89	7037.89	3.552	17.107	
9.90	9.90	7037.90	3.558	17.133	
9.91	9.91	7037.91	3.563	17.159	
9.92	9.92	7037.92	3.569	17.184	
9.93	9.93	7037.93	3.574	17.210	
9.94	9.94	7037.94	3.579	17.236	
9.95	9.95	7037.95	3.585	17.262	
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9.51	9.51	7123.51	2.316	9.176	
9.52	9.52	7123.52	2.320	9.192	
9.53	9.53	7123.53	2.325	9.208	
9.54	9.54	7123.54	2.330	9.224	
9.55	9.55	7123.55	2.335	9.240	
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9.57	9.57	7123.57	2.344	9.272	
9.58	9.58	7123.58	2.349	9.288	
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9.60	9.60	7123.60	2.358	9.320	
9.61	9.61	7123.61	2.363	9.336	
9.62	9.62	7123.62	2.368	9.352	
9.63	9.63	7123.63	2.372	9.368	
9.64	9.64	7123.64	2.372	9.384	
9.65	9.65	7123.65	2.382	9.400	
9.66	9.66	7123.66	2.387	9.416	
9.67	9.67	7123.67	2.391	9.432	
9.68	9.68	7123.68	2.391	9.448	
9.69	9.69		2.300	9.464	
9.09 9.70	9.09 9.70	7123.69 7123.70	2.401 2.401	9.404 9.480	
9.71	9.71	7123.71	2.400	9.496	
9.72	9.71	7123.71	2.410	9.512	
9.72	9.72	7123.72	2.413	9.528	
9.74	9.74	7123.73	2.420	9.544	
9.74	9.74 9.75	7123.74 7123.75	2.423 2.429	9.560	
9.76	9.76	7123.76	2.434	9.576	
9.77	9.77	7123.70	2.434	9.592	
9.78	9.78	7123.78	2.433	9.608	
9.79	9.79	7123.79	2.443	9.624	
9.80	9.80	7123.80	2.440	9.640	
9.81	9.81	7123.81	2.458	9.656	
9.82	9.82	7123.82	2.462	9.672	
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9.85	9.85	7123.85	2.477	9.720	
9.86	9.86	7123.86	2.481	9.736	
9.87	9.87	7123.87	2.486	9.752	
9.88	9.88	7123.88	2.491	9.768	
9.89	9.89	7123.89	2.495	9.784	
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9.91	9.91	7123.91	2.505	9.816	
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9.93	9.93	7123.93	2.514	9.848	
9.94	9.94	7123.94	2.519	9.864	
9.95	9.95	7123.95	2.515	9.880	
9.96	9.96	7123.96	2.529	9.896	
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9.97	9.97	7037.97	3.596	17.313	
9.98	9.98	7037.98	3.601	17.339	
9.99	9.99	7037.99	3.607	17.364	
10.00	10.00	7037.55	3.612	17.390	
10.01	10.01	7038.01	3.617	17.426	
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10.02	10.02	7038.02	3.628	17.498	
10.04	10.03	7038.03	3.633	17.534	
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10.06	10.05	7038.06	3.644	17.607	
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10.08	10.07	7038.07	3.654	17.679	
10.09	10.08	7038.08	3.660	17.715	
10.10	10.05	7038.05 7038.10	3.665	17.751	
10.11	10.10	7038.11	3.670	17.787	
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10.12	10.12	7038.12	3.681	17.859	
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10.18	10.18	7038.18	3.708	18.040	
10.19	10.19	7038.19	3.713	18.076	
10.20	10.20	7038.20	3.718	18.112	
10.21	10.21	7038.21	3.724	18.148	
10.22	10.22	7038.22	3.729	18.184	
10.23	10.23	7038.23	3.734	18.220	
10.24	10.24	7038.24	3.740	18.256	
10.25	10.25	7038.25	3.745	18.293	
10.26	10.26	7038.26	3.750	18.329	
10.27	10.27	7038.27	3.756	18.365	
10.28	10.28	7038.28	3.761	18.401	
10.29	10.29	7038.29	3.766	18.437	
10.30	10.30	7038.30	3.771	18.473	
10.31	10.31	7038.31	3.777	18.509	
10.32	10.32	7038.32	3.782	18.545	
10.33	10.33	7038.33	3.787	18.581	
10.34	10.34	7038.34	3.793	18.617	
10.35	10.35	7038.35	3.798	18.654	
10.36	10.36	7038.36	3.803	18.690	
10.37	10.37	7038.37	3.809	18.726	
10.38	10.38	7038.38	3.814	18.762	
10.39	10.39	7038.39	3.819	18.798	
10.40	10.40	7038.40	3.825	18.834	
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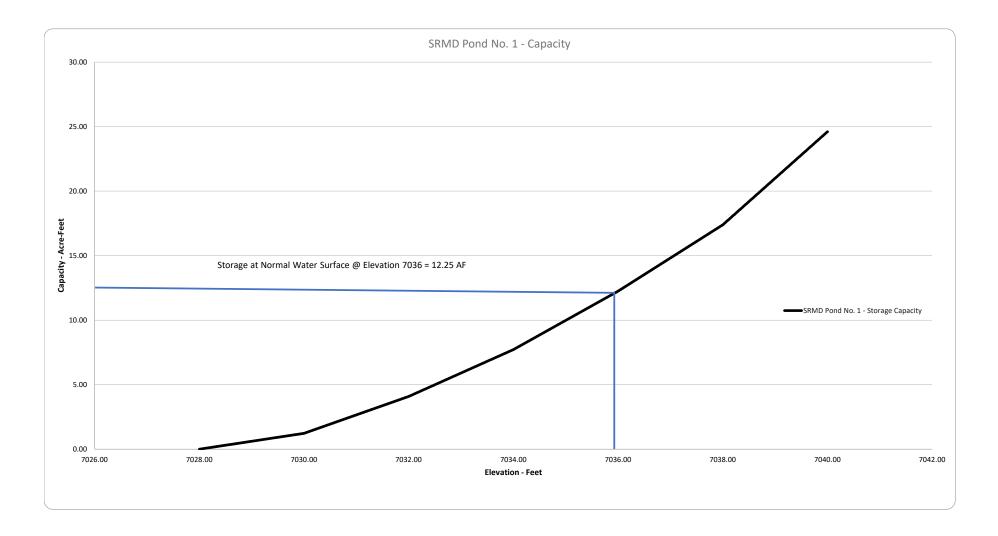
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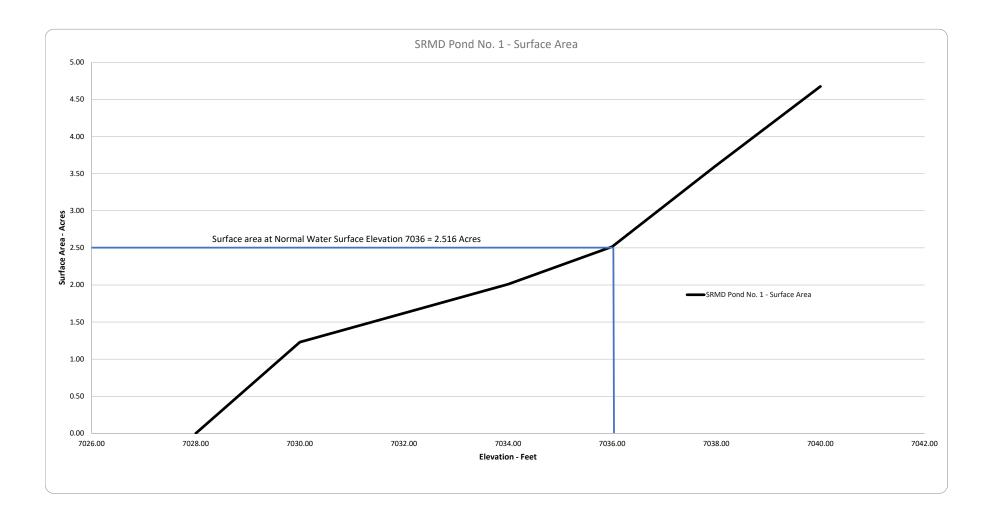
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10.46	10.46	7038.46	3.857	19.051	
10.40	10.40	7038.40	3.862	19.031	
10.47	10.47	7038.47	3.867	19.123	
10.48	10.48	7038.49	3.873	19.159	
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10.51	10.51	7038.51	3.883	19.231	
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10.52	10.52	7038.52	3.894	19.303	
10.54	10.55	7038.53	3.899	19.339	
10.54 10.55	10.54	7038.54 7038.55	3.899 3.904	19.339 19.376	
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10.57	10.50	7038.50	3.910	19.448	
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10.59	10.58	7038.58	3.920	19.484	
<b>10.59</b>	10.59 10.60	7038.59 7038.60	3.920 3.931	19.520 19.556	
10.61 10.62	10.61 10.62	7038.61 7038.62	3.936 3.942	19.592 19.628	
	-		3.942		
10.63 10.64	10.63 10.64	7038.63 7038.64	3.947	19.664	
10.64 10.65	10.64 10.65	7038.64 7038.65	3.952 3.958	19.700 19.737	
10.66	10.66	7038.66	3.963	19.773	
10.67	10.67	7038.67	3.968 3.974	19.809	
10.68	10.68	7038.68 7038.69	3.974	19.845	
10.69 10.70	10.69 10.70	7038.89 7038.70	3.979 3.984	19.881 19.917	
10.71	10.71	7038.71 7038.72	3.990 3.995	19.953 19.989	
10.72	10.72				
10.73	10.73	7038.73	4.000	20.025	
10.74 10.75	10.74 10.75	7038.74 7038.75	4.006 <b>4.011</b>	20.061 20.098	
10.76	10.75		4.011		
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10.77 10.78	10.77 10.78	7038.77 7038.78	4.022	20.170 20.206	
10.78	10.78	7038.78	4.027	20.206	
10.79 10.80	10.79 10.80	7038.79 7038.80	4.032 4.037	20.242 20.278	
			4.037		
10.81	10.81	7038.81		20.314	
10.82	10.82 10.83	7038.82 7038.83	4.048	20.350 20.386	
10.83	10.83		4.053		
10.84 10.85	10.84 10.85	7038.84 7038.85	4.059 <b>4.064</b>	20.422 20.459	
			4.069	20.495	
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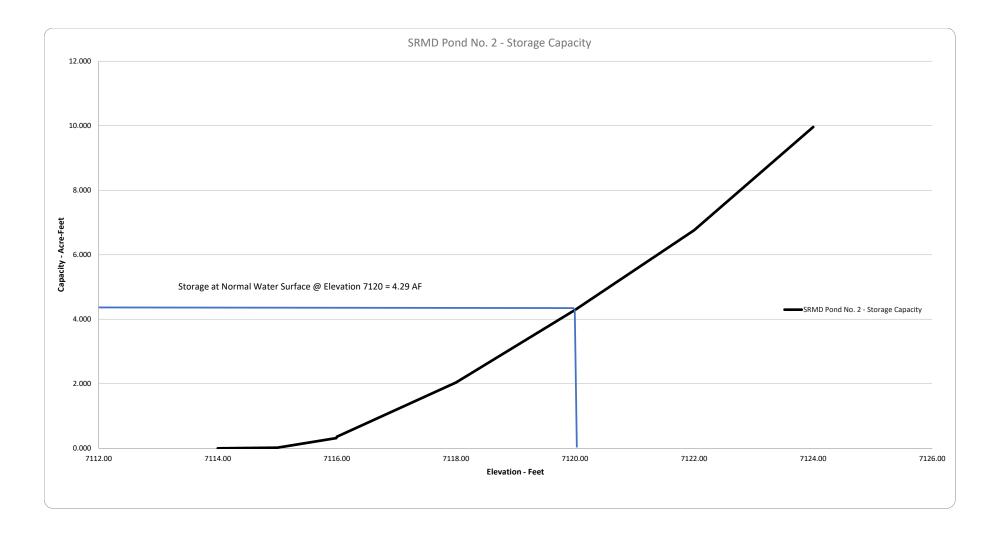
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10.94	10.95	7038.94	4.112	20.783	
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11.01	11.01	7039.01	4.149	21.036	
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11.02	11.02	7039.02	4.160	21.108	
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11.07	11.07	7039.07	4.181	21.253	
11.08	11.08	7039.08	4.186	21.289	
11.09 <b>11.10</b>	11.09 <b>11.10</b>	7039.09 7039.10	4.192 4.197	21.325 21.361	
11.11	11.11	7039.11	4.202	21.397	
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11.13 11.14	11.13 11.14	7039.13 7039.14	4.213	21.469	
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11.16	11.16	7039.16	4.229	21.578	
11.17	11.17	7039.17	4.234	21.614	
11.18	11.18	7039.18	4.240	21.650	
11.19	11.19	7039.19	4.245	21.686	
11.20	11.20	7039.20	4.250	21.722	
11.21	11.21	7039.21	4.256	21.758	
11.22	11.22	7039.22	4.261	21.794	
11.23	11.23	7039.23	4.266	21.830	
11.24	11.24	7039.24	4.272	21.866	
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11.26	11.26	7039.26	4.282	21.939	
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11.28	11.28	7039.28	4.293	22.011	
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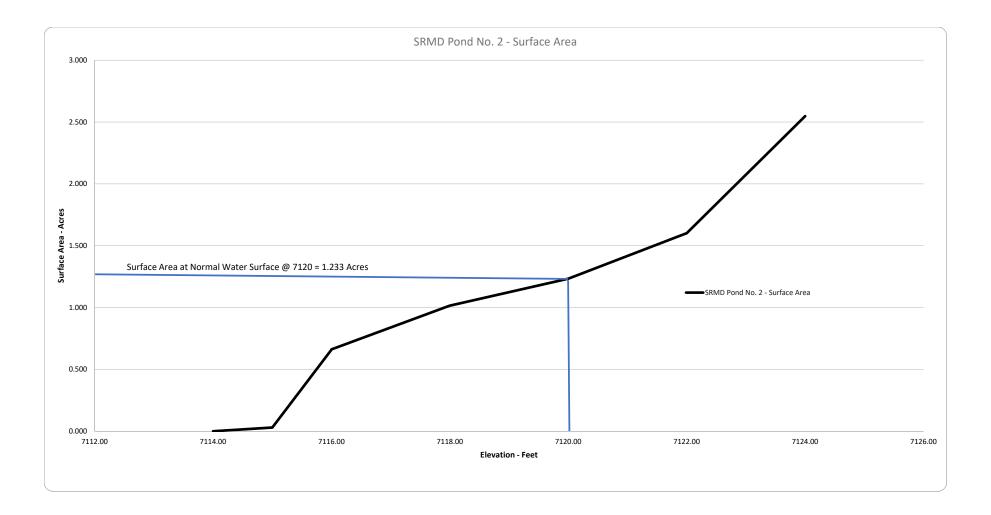
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11.53	11.53	7039.53	4.426	22.913	
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11.94 11.95	11.94 11.95	7039.94 7039.95	4.644 <b>4.649</b>	24.393 <b>24.430</b>	
-	-		-		
11.95	11.95	7039.95	4.649	24.430	
11.95 11.96	11.95 11.96	7039.95 7039.96	<b>4.649</b> 4.655	<b>24.430</b> 24.466	
11.95 11.96 11.97	11.95 11.96 11.97	7039.95 7039.96 7039.97	<b>4.649</b> 4.655 4.660	<b>24.430</b> 24.466 24.502	









DISTRICT COURT, WATER DIVISION NO. 2, COLORADO

Case No. 91CW35

RULING OF REFEREE Division No. 2, State of SAL BOARD

CONCERNING THE APPLICATION FOR WATER RIGHTS OF: APR 9 1992

COLACO, LTD.,

IN EL PASO COUNTY.

marco Reeino

DIPY RECEIVED

Cleri Pursuant to Order of Referral filed and entered in the above case on October 24, 1991, the undersigned Water Referee.

above case on October 24, 1991, the undersigned Water Referee, having investigated the matter of the Application on file herein, hereby makes the following findings and ruling thereon:

### FINDINGS OF FACT

1. That the said Application was filed on October 24, 1991.

2. That the Water Clerk caused publication of such filing as provided by statute; that publication costs have been paid; that the time for filing Statements of Opposition expired on the last day of December, 1991, that one such has been filed by the City of Colorado Springs and that agreement has been reached by the parties on a proposed ruling.

3. That the said Application concerns a claim for four wells located in El Paso County, Colorado.

4. Name of Wells:

- (a) Dawson Aquifer: Colaco DA-1.
- (b) Denver Aquifer: Colaco DN-1,
- (c) Arapahoe Aquifer: Colaco KA-1.
- (d) Laramie-Fox Hills Aquifer: Colaco LFH-1.

5. Legal descriptions of locations of wells:

 (a) Colaco DA-1: SE1/4 NE1/4, Section 34, T. 12 S.
 R. 65 W., 6th P.M., at a point 2780 feet from the south section line and 300 feet from the east section line.

- (b) Colaco DN-1: SE1/4 NE1/4, Section 34, T. 12 S., R. 65 W., 6th P.M., at a point 2740 feet from the south section line and 300 feet from the east section line.
- (c) Colaco KA-1: SEJ/4 NEL/4, Section 34, T. 12 S., R. 65 W., 6th P.M. at a point 2690 feet from the south section line and 300 feet from the east section line.
- (d) Colaco LFH-1: SE1/4 NE1/4, Section 34, T. 12
   S., R. 65 W., 6th P.M., at a point 2640 feet from the south section line and 300 feet from the east section line.

6. Source of Water: Dawson, Denver, Arapahoe and Laramie-Fox Hills Aquifers.

7. Date of Appropriation: Not applicable pursuant to C.R.S. 37-92-305(11).

8. The amount of water:

The estimated depths, below land surface, estimated pumping rates and estimated annual withdrawals for each well are as follows:

Estimated Depths		Pumping Rate		Annual Withdrawal
Тор	Bottom	CFS	(GPM)	Acre Feet
43	324	0.67	300	34 🗸
350	1,245	0.67	300	76
1,283	1,785	1.79	800	49
2,054	2,334	0.67	300	36
	<u>Top</u> 43 350 1,283	Top         Bottom           43         324           350         1,245           1,283         1,785	Top         Bottom         CFS           43         324         0.67           350         1,245         0.67           1,283         1,785         1.79	Top         Bottom         CFS         (GPM)           43         324         0.67         300           350         1,245         0.67         300           1,283         1,785         1.79         800

9. The use of the water:

Colaco DA-1, Colaco DN-1, Colaco KA-1, Colaco LFH-1 Wells: water withdrawn from these wells may be used, reused and successively used and otherwise disposed of for all purposes including: municipal, domestic, industrial, commercial, irrigation, stockwater, recreation, fish and wildlife, fire protection, sanitary purposes, storage, exchange, and augmentation. Augmentation use cannot be made until a court approved plan for augmentation is obtained or the State Engineer has approved a substitute supply plan or exchange. All subject to provisions of Paragraph 14 and 15 herein. In accordance with C.R.S. 37-90-137(9)(c), judicial approval of a plan for augmentation shall be required prior to the use of ground water from the Dawson Aguifer or from the Denver Aguifer. In the case of the Dawson aguifer such

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augmentation plan shall provide for the replacement of actual stream depletions to the extent necessary to prevent any injurious effect, based on actual aquifer conditions in existence at the time of the decree. In the case of the Denver Aquifer such augmentation plan shall provide for the replacement to affected stream systems or system of a total amount of water equal to four (4) percent of the amount of water withdrawn on an annual basis and such additional amounts that may be required pursuant to Section 37-90-137(9)(c), C.R.S. (1986 Supp.).

10. Applicant claims all water under the 132 acres known as NE1/4 SE1/4, SE1/4 SE1/4, and SE1/4 NE1/4, Section 34, Township 12 South, Range 65 West of the 6th P.M., El Paso County, from the Dawson, Denver, Arapahoe and Laramie-Fox Hills Aquifers.

### 11. Allowed Average Annual Amount of Withdrawal

The criteria used in determining the allowed average annual amount of withdrawal of groundwater from each aquifer as specified in Paragraph 8, beneath the land described in Paragraph 10 are those criteria prescribed by C.R.S. 37-90-137(4) and the Rules and Regulations adopted by the State Engineer. The values used to calculate the allowed average annual amount of withdrawal are:

	No. of	Saturated Materials	Specific	Acre-Feet
<u>Aquifer</u>	Acres	(feet)	Yield	Per Year
Dawson	132	128	20%	34
Denver	132	340	17%	76
Arapahoe	132	220	17%	49
Laramie-Fox Hills	132	183	15%	36

all in accordance with the Determinations of Facts issued by the State Engineer on January 15, 1992.

The values may be adjusted based on site specific data submitted pursuant to the Statewide Nontributary Groundwater Rules and subject to the retained jurisdiction provisions contained in Paragraph 17.

12. The ground water in the Arapahoe and Laramie-Fox Hills aquifers underlying the Subject Land is nontributary ground water as that term is defined in Section 37-90-103(10.5), 15 C.R.S. (as amended). The withdrawal of the total amount of nontributary ground water underlying the Subject Land will not cause material injury to any other vested water right, and will not, within one hundred years, deplete

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the flow of a natural surface stream at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal.

Pursuant to the State Engineer's Denver Basin Rules, the ground water underlying the Subject Land in the Dawson and Denver aquifers is "not nontributary" ground water as that term is used in Section 37-90-137(9)(c), C.R.S. Applicant is entitled to withdraw and use all previously unappropriated and legally available ground water from these aquifers. Well Colaco DN-1 is located more than one mile from the nearest point of contact between the Denver aquifer and any natural stream and its alluvium.

13. Construction of Wells

For all wells, applicants shall comply with the following conditions:

A. The entire length of the open bore hole except the surface casing shall be geophysically surveyed prior to casing and copies of the geophysical log submitted to the Division of Water Resources within 60 days of drilling. Applicant may provide a geophysical log from an adjacent well or test hole in accordance with the Statewide Rules and Regulations and acceptable to the State Engineer, which fully penetrates the formation, in satisfaction of the above requirement.

B. The ground water production shall be limited to the aquifers stated in Paragraph 8 herein as defined in the Denver Basin Rules and Regulations. Non-perforated casing must be installed and properly grouted to prevent withdrawal from or intermingling of water between other aquifers.

C. The permit number and name of the aguifer shall be permanently displayed on or near the well at a location easily accessible to water officials.

D. Applicant shall comply with C.R.S. Section 37-91-101, et seq. and the Rules and Regulations promulgated thereto and with such other requirements for constructing and equipping the well as the State Engineer may reasonably require.

E. Unless otherwise authorized by the Division Engineer, applicant shall install a totalizing flow meter on each well. The meter shall be installed according to the manufacturer's recommendations and shall be inspected at least annually, and promptly repaired or recalibrated as needed. If Applicant's meter becomes inoperable, it shall be repaired as soon as possible so that measurements can continue. Permission to operate the well without an operational meter must be obtained from the Division Engineer. F. The Applicant shall keep records of the amount of water pumped and perform the calculations necessary to determine whether Applicant is in compliance with this decree. Applicant shall supply the Division Engineer with those records at least on an annual basis or upon request by the Division Engineer.

14. Limitation on Consumption of Nontributary Groundwater.

Applicant may not consume more than 98 percent of the annual quantity of the nontributary groundwater withdrawn from Colaco KA-1 Well and Colaco LFM-1 Well from the aquifer underlying the property in Paragraph 10. The relinquishment of 2 percent of the annual amount of water withdrawn to the stream system, as required by the Denver Basin Rules effective January 1, 1986, may be satisfied by any method selected by the Applicant, so long as Applicant can demonstrate to the reasonable satisfaction of the State Engineer prior to issuance of the permit that an amount equal to 2 percent of such annual withdrawals (by volume) will be relinquished to the stream system, by quantifiable return flows or otherwise.

15. Any right to reuse or successive use of water approved herein shall be in accordance with C.R.S. 37-82-106(2).

16. Well Permits

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Well Permit No. 31778-F was issued to Colaco DN-1 Well on June 2, 1987. When the applicant is ready to construct Wells Colaco DA-1, Colaco KA-1, and Colaco LFH-1, an application for a well permit shall be filed pursuant to 37-90-137, C.R.S. The State Engineer shall consider the rights granted herein as valid. If Applicant fails to construct the well for which the permit was issued within the period of time authorized by statute, including legally authorized extension of any such time period, then when Applicant is ready to drill the well, Applicant shall file a second application for such well and the State Engineer may issue a well permit with restrictions no more burdensome than are found in this ruling.

17. Retained Jurisdiction.

The Court retains jurisdiction to provide for the adjustment of the annual amount of withdrawal to conform to actual local aquifer characteristics as determined from analyses of data obtained when the wells are constructed or test holes drilled. Within 60 days after the completion of such well(s) or test hole(s), the Applicant shall file with the State Engineer, and serve each of the parties who have appeared herein, copies of the well logs from such well(s) or test hole(s). Any person including the State Engineer can

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invoke the Court's retained jurisdiction to make a Final Determination of Water Right. The State Engineer can invoke the Court's retained jurisdiction to make a Final Determination of Water Right. The State Engineer, upon notification of retained jurisdiction, shall utilize data available to him and make a final Determination of Water Rights Finding within 4 months and submit same to the Water Court. If no protest to such a filing is made within 60 days, the Final Determination of Water Right shall be incorporated into the decree by the Water Court. In the event of a protest, or in the event the State Engineer makes no determination within 4 months, such final determination shall be made by the Water Court after notice and hearing.

18. The rights to nontributary ground water sought by this Application are not "Conditional Water Rights" and Findings of Reasonable Diligence are not required. Pursuant to Section 37-90-305(11), 15 C.R.S. (as amended), the rights to nontributary ground water requested from the Arapahoe and Laramie-Pox Hills aquifers are vested property rights, not conditional water rights, and the requirements of Section 37-92-102(6), 301(4), and 601, 15 C.R.S. (as amended) pertaining to conditional water rights and the requirement for findings of reasonable diligence are inapplicable to rights to such ground water.

The "not nontributary" ground water in the Dawson and Denver aquifers is, pursuant to Section 37-90-137(4) and (9), to be administered over a one hundred year aquifer life and not pursuant to any doctrine of priority of appropriation. For that reason, none of the policies or purposes of conditional water rights and the filings of reasonable diligence associated with the priority of appropriation are applicable to the rights to the "not nontributary" ground water requested herein. As a matter of law, even though the ground water requested from the "not nontributary" Dawson and Denver aquifers has not been diverted and applied to beneficial use, it is a vested property right, and that the requirements of Sections 37-92-102(6), 301(4), and 601, C.R.S. pertaining to conditional water rights and findings of reasonable diligence are inapplicable to the "not nontributary" ground water. The failure to obtain periodic findings of reasonable diligence shall not result in a loss, forfeiture, or abandonment of Applicant's rights to "not nontributary" ground water from the Dawson or Denver aquifers.

19. That Applicant has furnished acceptable proof as to claims made.

IT IS, THEREFORE, CRDERED AS FOLLOWS: That Applicant be, and is hereby, awarded the underground water rights for Colaco DA-1, Colaco DN-1, Colaco KA-1, and Colaco LFH-1 Wells as set forth herein.

## NAME AND ADDRESS:

#### Colaco, Ltd., a Colorado Corporation William A. Fis<sub>ch</sub>er, President 1790 Pinnacle Ridge Lane Colorado Springs, CO 80919

IT IS FURTHER ORDERED that Applicant shall install and maintain such water measurement devices, recording devices, content gauges and inlet and outlet measurement and recording devices, as the case may be, as are deemed essential by the Office of the State Engineer, and the same shall be installed and operated in accordance with instructions from said Office.

IT IS FURTHER ORDERED that copies of this ruling shall be mailed as provided by statute.

Dated and filed with the Water Clerk this <u>9th</u> day of April, 1992.

BY THE REFEREE:

Clyde B. Young, Jr. Water Division No. Jr.6 Water Referee

Water Division No.  $2^{\checkmark}$ State of Colorado

> Clerk, District Court Water Division No. 2, State of Colorndo

> > APR 9 1992

mandle Relino

Clerk

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DISTRICT COURT, WATER DIVISION 2, COLORAD CASE NO. <u>91CW35</u>	COPY Filed in the office of the Clerk, District Coust Wall Clerk, District Coust Wall Colorado
JUDGMENT AND DECREE	Marall Allino
CONCERNING THE APPLICATION FOR WATER RIGH	
COLACO, LTD,	IN EL PASO County.

THE COURT FINDS That no protest has been filed to the Ruling of the Water Referee within the time provided by law, and that said Ruling should be confirmed, approved and adopted.

IT IS, THEREFORE, ORDERED, ADJUDGED AND DECREED That the Ruling of Referee entered on <u>April 9, 1992</u>, be and is incorporated herein by reference and is confirmed, approved and adopted as the judgment of this Court.

\*Dated: <u>May 5, 1992</u> BY THE COURT: . er L 123 TRACEY, WATER JUDGE JOHN R.

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Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

DISTRICT COURT, WATER DIVISION NO. 2, STATE OF COLORADO 0CT 29 1986

Case No. 86-CW-18

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Clerk

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

CONCERNING THE APPLICATION FOR NONTRIBUTARY GROUND WATER RIGHTS OF THE FIRST INTERSTATE BANK OF DENVER N.A., CARLA W. LEWIS, AND SAMUEL S. SHERMAN AS COTRUSTEES UNDER THE LIFE INSURANCE TRUST OF THOMAS M. DINES FROM THE ARAPAHOE FORMATION, EL PASO COUNTY.

THIS MATTER, having come on for hearing before the Court this 29 day of 200, 1986 upon the application of The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines ("Applicants") and the Court having considered the pleadings filed and the evidence presented, and being fully advised in the premises, hereby enters the following Findings of Fact, Conclusions of Law, and Judgment and Decree:

## FINDINGS OF FACT

1. The Applicants are The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines whose address is First Interstate Bank of Denver, 633 Seventeenth Street, Denver, Colorado 80202, Attn: Jack Alexander. Applicants filed the application in this case styled Application For Nontributary Ground Water From The Arapahoe Formation (the "Application") on March 28, 1986, seeking an adjudication of nontributary ground water rights from the Arapahoe Formation underlying lands owned by Applicants in El Paso County.

2. Timely and adequate notice of the Application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of the lands or water rights involved in this case are within the boundaries of a designated groundwater basin.

3. A timely statement of opposition was filed by JVRC, Inc. No other statements of opposition were filed within the time provided by law nor did any other parties enter their appearance or intervene in these proceedings. 4. The Water Referee by Order dated July 19, 1986, under Section 37-92-303(2), C.R.S., rereferred the Application to the Water Judge for all further proceedings.

5. The State Engineer issued a Determination of Facts on the Application, dated July 28, 1986, which has been filed with the Court. The Division Engineer adopted the Determination of Facts as his recommendations on August 8, 1986. The Determination of Facts and the findings contained therein have been reviewed and considered by this Court in accordance with Section 37-92-305(6), C.R.S.

Applicants seek an adjudication of rights 6. to nontributary ground water from the Arapahoe Formation beneath 1,410 acres of land in El Paso County which are described in Exhibit A and depicted on the map attached as Exhibit B, both of which are incorporated herein by this reference (the "Subject Lands"). Applicants are the owners of the Subject Lands and have the right to withdraw and use the waters from the Arapahoe Formation underlying those lands. The waters claimed herein may be withdrawn through the proposed wells described in Paragraph  $\overline{7}$ below and through such additional, replacement and supplemental wells as may be necessary to withdraw all of the water in the Arapahoe Formation underlying the Subject Lands without causing material injury to any vested water right whose source of supply is the Arkansas River and any of its tributaries or any other natural stream, or any ground water tributary thereto, and the Applicants have so proven.

7. Applicants will divert the waters claimed herein from the Arapahoe Formation through Dines Wells KA-1, KA-2, KA-3, and KA-4 more particularly described as follows:

Well Name: Dines Well KA-1

- (a) In the SE 1/4 of the NW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 2500 feet from the North Section line and 2200 feet from the West Section line, in El Paso County.
- (b) Depth: 1900 feet.
- (c) Source: Nontributary Arapahoe Formation.
- (d) Pumping rate: 150 gpm.

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(e) Annual quantity: 240 acre-feet.\*

# Well Name: Dines Well KA-2

- (a) Location: In the SW 1/4 of the SW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 200 feet from the South Section line and 200 feet from the West Section line, in El Paso County.
- (b) Depth: 1800 feet.
- (c) Source: Nontributary Arapahoe Formation.
- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KA-3

- (a) Location: In the NW 1/4 of the SE 1/4 of Section 33, Township 12 South, Range 65 West of the 6th P.M., 1500 feet from the South Section line and 2100 feet from the East Section line, in El Paso County.
- (b) Depth: 1700 feet.
- (c) Source: Nontributary Arapahoe Formation.
- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KA-4

- (a) Location: In the NE 1/4 of the SW 1/4 of Section 34, Township 12 South, Range 65 West of the 6th P.M., 1400 feet from the South Section line and 2100 feet from the West Section line, in El Paso County.
- (b) Depth: 1700 feet.
- (c) Source: Nontributary Arapahoe Formation.

- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.
- \* Not to exceed in total the amount available to Applicants from the Arapahoe Formation pursuant to § 37-90-137(4), C.R.S. and the provisions of this decree.

8. Pursuant to §37-90-137(4), C.R.S., five hundred seventy-five (575) acre-feet of water per year are available to Applicants from the Arapahoe Formation underlying the Subject Lands. The average thickness of saturated sand of the Arapahoe Formation underlying the Subject Lands is 240 feet but the final determination on actual saturated sand thickness will be determined when the wells are drilled, and the amount decreed herein may be subsequently adjusted in accordance with that saturated sand thickness as provided in Paragraph 29 below. The specific yield of the Arapahoe Formation is 17% in and beneath the Subject Lands. This finding is specific to the property involved and does not indicate or in any way reflect upon proper values for the subject aquifer elsewhere. All the water in the Arapahoe Formation underlying the Subject Lands remains available for withdrawal by the wells decreed herein.

The State Engineer in his Determination of Facts 9. found acre-feet per year were that 581 available for appropriation through the subject wells. The State Engineer's determination is based on a finding that only 1395 acres of the Subject Lands are available for appropriation, and based on saturated sand thicknesses of 245 feet and 250 feet for different parts of the Subject Lands and a specific yield of 17% for the Arapahoe Formation. The State Engineer also found that of the total 581 acre-feet per year of water available for appropriation, 569 acre-feet was nontributary and 12 acre-feet was not nontributary. The 12 acre-feet per year the State Engineer found as not nontributary underly 37 acres of Section 32 of the Subject Lands. Applicant has shown by a preponderance of the evidence that there are no existing wells with a right to water from the Arapahoe Formation underlying the Subject Lands and that the water underlying 1410 acres is available for The Court also finds that the appropriation by Applicants. withdrawals through Applicants' proposed wells of the water claimed herein including the amount of water underlying the 37 acres in Section 32 is nontributary. The proposed wells will not, at their location and withdrawing the amounts decreed herein, within one hundred years deplete the flow of any natural stream at a rate greater than one-tenth of one percent of the annual rate of withdrawal. Applicants' engineer has testified that 575 acre-feet per year is available for appropriation calculated with a saturated sand thickness of 240 feet for the

Arapahoe Formation. Subject to the final determination of saturated sand thickness based on the information derived from the drilling of the wells, Applicants will use 240 feet for the saturated sand thickness of the Arapahoe Formation beneath the Applicants' property.

10. The source of water for the proposed wells is nontributary as defined in Section 37-90-103 (10.5), C.R.S. The proposed withdrawals through Dines Wells KA-1, KA-2, KA-3, and KA-4 in the amount of 575 acre-feet per year, or in any lesser or greater amount determined under Paragraph 29, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal.

11. The waters of the Arapahoe Formation that are the subject of the appropriation claimed herein will be, and Applicants intend that they be used, and Applicants shall have the right of succession of uses, for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. The water will be produced for immediate application to beneficial use and for storage and subsequent application to beneficial use. Subject only to the provisions of Paragraph 31, Applicants shall have the right to make any reuse, successive use or disposition of the developed water claimed herein until totally consumed free of any limitations, restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S.

12. All of the requirements of C.R.S. § 37-90-137(4), in effect on this date have been complied with, and the issuance of permits for the subject wells is justified and those permits will be issued as described in Paragraph 34 below.

13. Applicants will relinquish the right to consume after use, reuse, and successive use 2% of the amount of ground water withdrawn through Dines Wells KA-1, KA-2, KA-3 and KA-4 and any additional, supplemental, or replacement, wells without regard to dominion or control of the ground water so relinquished.

14. Applicants seek a decree designating all of the wells described in Paragraph 7 above as original and alternate points of diversion for each other permitting the withdrawal of up to the full cumulative amount by flow rate and volume of water which may be lawfully withdrawn from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested

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water right or decreed conditional water right by the granting of this request, and it is hereby granted.

15. Applicants may withdraw more water than the amounts set forth in Paragraph 8 so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Arapahoe Formation.

16. Applicants have requested that the Court determine that Applicants have the right to withdraw all of the unappropriated water from the Arapahoe Formation lying below their land and to increase their annual appropriations based upon the local aquifer characteristics established through information obtained from the drilling of the wells upon notice to all parties and approval by the Court, without amending the Application or republishing. The Court finds that there has been full and adequate notice of these claims and Applicants will be entitled to an adjustment under the provisions of Paragraph 29 below on the amount of water to which the wells are entitled.

17. Applicants may construct any well within 200 feet of the described locations without amending the Application or reopening this decree.

18. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the provisions of Paragraph 34 below are and have been justified and shall apply.

19. As of March 3, 1986, Applicants have intended to the waters sought in the Application and have claim so demonstrated by open and physical acts on the ground and by the completion of engineering study an and hydrogeological investigation on the water available for appropriation in the Arapahoe Formation. Applicants have demonstrated and manifested an intent to appropriate the waters claimed herein by giving sufficient notice thereof, all in accordance with law. The evidence presented shows that the Applicants intend to appropriate the waters claimed herein, that such intent to appropriate has been adequately demonstrated, and that Applicants are entitled to a decree for the water rights herein decreed.

20. There is unappropriated water available for withdrawal by the structures decreed herein and the vested water rights of others will not be materially injured by the appropriations as decreed. Only that quantity of water underlying the Subject Lands has been considered to be unappropriated; the minimum useful life of the Arapahoe Formation is at least one hundred (100) years, assuming no substantial artificial recharge within one hundred (100) years; and no material injury to vested water rights will result from the issuance of or exercise of the permits for the subject wells.

#### CONCLUSIONS OF LAW

21. The Court has jurisdiction to determine Applicants' rights to nontributary ground water pursuant to Sections 37-90-137(6), 37-92-203(1), and 37-92-302 through 305, C.R.S. (Supp. 1985). The procedures and requirements of these statutes have been complied with, full and adequate notice has been given, and no additional notice is required.

22. The Court concludes as a matter of law that the Application herein is one contemplated by law. The Application for a decree confirming Applicants' right to divert and use ground water from the Arapahoe Formation beneath the Subject Lands, pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The rights confirmed by this decree are vested property rights. The amount of water confirmed in this decree is that quantity of water underlying the Subject Lands and the annual withdrawals are based on an aquifer life of one hundred years.

23. The Court concludes that the rights to ground water determined herein are not conditional water rights and subsequent showings or findings of reasonable diligence under Section 37-92-301(4), C.R.S., are inapplicable and need not be made. Accordingly, each of the water rights adjudicated herein is a final vested property right.

24. Applicants are entitled as a matter of law to use, reuse, and successively use to extinction and dispose of all nontributary ground water decreed herein pursuant to Section 37-82-106, C.R.S. (Supp. 1985) subject only to a 2% relinquishment of Applicants' right to total consumption. Failure to use, reuse or recapture such water, including return flows, shall not be deemed a forfeiture or abandonment of the right to such use, reuse or recapture.

25. The Court shall retain jurisdiction over this matter to make adjustments to the amount of water available for withdrawal annually to conform to the actual aquifer characteristics encountered upon the drilling of the wells. This retained jurisdiction may be invoked only by the parties under Paragraph 36.

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#### JUDGMENT AND DECREE

26. The Findings of Fact and Conclusions of Law set forth in Paragraphs 1-25, above are incorporated herein by this reference.

27. The Application for determination of water rights for the subject wells is granted subject to the following limitations.

A right to five hundred seventy-five (575) acre-28. nontributary ground water per year is decreed and feet of confirmed in Applicants pursuant to § 37-90-137(4), C.R.S., for Dines Wells KA-1, KA-2, KA-3, and KA-4, from the Arapahoe Formation for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. Applicants shall have the right to recapture, reuse, and dispose of the water developed by the subject wells. Applicants shall have the right to withdraw water for immediate application to beneficial use and for storage and subsequent application to beneficial use and shall have the right to make any reuse, successive use or disposition of the developed water claimed herein to extinction free of any limitations. restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S. subject only to the provisions of Paragraph 31 below. The water may be withdrawn through the wells described in Paragraph 7 above and through such additional wells as may be required in order to maintain the annual appropriation as determined herein. The proposed withdrawals through Dines Wells KA-1, KA-2, KA-3, and KA-4 and any additional, supplemental, or replacement wells in the amount of 575 acre-feet per year, or in any additional amounts of water from the Arapahoe Formation underlying the Subject Lands, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% annual rate of withdrawal, and those waters of the are nontributary to any natural surface stream, its alluvium, and any ground water tributary thereto, and the proposed withdrawals will not result in material injury to vested water rights.

29. The total amount of water to which Applicants are entitled and which is available to Applicants from the Arapahoe Formation beneath the Subject Lands shall be 575 acre-feet per year or the lesser or greater amount of water each such well is entitled to as subsequently determined from the saturated sand thickness of the Arapahoe Formation determined from the geophysical data obtained from the construction of the wells. Geophysical logs shall be taken in accordance with the applicable rules promulgated by the State Engineer. In making the determination of the final amount of water to which the subject wells are entitled, the following criteria shall apply:

(a) Saturated sand thickness shall be defined as the cumulative thickness of saturated materials as shown on the geophysical logs for each well applying standard accepted geophysical log interpretation methodology;

(b) The specific yield for the Arapahoe Formation shall be 17%;

(c) The water in the Arapahoe Formation underlying the 1410 acres of the Subject Lands shall be considered available for appropriation by the wells decreed herein.

After the completion of the wells subject to this decree, Applicants shall submit the geophysical logs and any other geophysical information obtained from the drilling of the wells to the State Engineer and to the other parties in this action together with a statement from Applicants on the final actual saturated sand thickness and final annual appropriation for each well as determined by Applicants. Within 60 days from the date on which Applicants mail copies of the geophysical logs and statement to the parties herein, any party may petition this Court to invoke the Court's retained jurisdiction under Paragraph 36 of this decree to reconsider the saturated sand thickness of the Arapahoe Formation underlying the Subject Lands for the purpose of adjusting the total entitlement of water to the wells decreed herein. Those proceedings shall be limited exclusively to the issue of saturated sand thickness. If the Court's retained jurisdiction is not invoked within the time prescribed in this Paragraph, the respective amounts set forth in Applicants' statement as the final annual entitlement to each well shall be final, which amount shall be confirmed as final by order of the Court upon Applicants' motion to the Court setting forth facts showing compliance with this Paragraph.

30. The issuance by the Colorado Division of Water Resources pursuant to Colorado Revised Statutes, Section 37-90-137(4) of permits to construct the subject wells is justified and the Division of Water Resources is directed to issue the permits in accordance with Paragraph 34 below. Each of the requirements of the statute has been complied with. Unappropriated waters are available for appropriation from the Arapahoe Formation beneath the Subject Lands and the proposed withdrawals will not result in material injury to other vested water rights. 31. Applicants shall relinquish the right to consume, after use, reuse, and successive use 2% of the water withdrawn through Dines Wells KA-1, KA-2, KA-3 and KA-4 and any additional, supplemental, or replacement wells without regard to dominion or control of the ground water so relinquished.

32. All of the wells described in Paragraph 7 may be used as original and alternate points of diversion for each other permitting the withdrawal by flow rate and volume of up to the full cumulative amount of water which may be lawfully withdrawn from all of those wells from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or decreed conditional water right by the granting of this request, and it is hereby granted.

33. Applicants may withdraw more water than the final annual appropriation for each well so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of issuance of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Arapahoe Formation.

34. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the following provisions shall apply.

(a) The State Engineer shall consider the rights granted herein as valid and shall consider the water sought by Applicants as taken and appropriated by Applicants.

(b) When Applicants are prepared to drill a well described in this decree, Applicants shall apply to the State Engineer for a well permit and that permit shall be issued within 60 days under terms and conditions no less stringent than those set forth in this decree with the conditions for equipping and constructing the well as are specified in Paragraph 35 herein. In the event that a well permit expires prior to the construction of the well and the application of water to beneficial use, Applicants may apply for a new well permit and the State Engineer shall within 60 days issue a new well permit with the same terms and conditions as the permit that expired.

(c) Applicants shall submit well permit applications to the State Engineer's office for any replacement, supplemental or additional wells.

(d) Any well permitted pursuant to this decree which is drilled within 200 feet of the decreed location shall be deemed to have been drilled at the decreed well location and shall not require application for a new or amended well permit.

(e) In determining whether good cause exists for granting a request by Applicants to extend well permits for nontributary wells for one or more additional oneyear periods pursuant to Section 37-90-137(3)(a)(II), C.R.S. (1985 Supp.), the State Engineer shall recognize that each well decreed herein, and such additional wells as are required from time to time to fully recover the annual appropriation herein, are part of a single integrated water supply system to be constructed over a phased period of time. So long as Applicants still desire to use the groundwater the well permits shall be extended.

(f) Prior to constructing any additional wells, Applicants shall submit well permit applications to the State Engineer. In considering such permit applications, the State Engineer shall be governed by Section 37-90-137(10), C.R.S. (1985 Supp.) and the provisions of this decree. Any such permitting action may be reviewed by this Court pursuant to Section 37-92-305(6), C.R.S. (1985 Supp.).

(g) For the purpose of well permit applications, Applicants need not submit separate proof, apart from the terms of this decree, of matters which have been determined herein.

35. Applicants shall geophysically log the entire bore hole of each well prior to the installation of casing. Such logs shall be taken in accordance with the applicable rules promulgated by the State Engineer. In constructing and maintaining any well which will withdraw water from the Arapahoe Formation under this decree, the Applicants shall seal off and encase the well with an impervious lining at all levels, except the level of the Arapahoe Formation, to prevent withdrawal of and mixing of groundwater in other aquifers and a totalizing flow meter shall be installed on each well. After construction the Applicants shall attach an identification tag to the well specifying the name of the well, the permit number and the aquifer from which the water is withdrawn. Applicants shall maintain records of the amounts pumped from each well on a monthly basis and such records shall be provided to the Division Engineer or the State Engineer on request.

36. This Court retains jurisdiction in this case for the reconsideration of the final amounts of water appropriated by the proposed wells in accord with Paragraph 29 above. The Court's retained jurisdiction may be invoked only by the Applicants and JVRC, Inc. The Court's retained jurisdiction may be invoked by written notice to the Court requesting a hearing. Copies of that notice will be served on the parties herein at their latest address of record in this case.

Dated this 29 day of 90t. , 1986.

BY THE COURT

Honorable John Tracey Water Judge Water Division No. 2 State of Colorado

APPROVED AS TO FORM AND SUBSTANCE:

SHERMAN & HOWARD

John L. DeWeerdt #9390

Kenneth L. Salazar #11648 Suite 2900 633 Seventeenth Street Denver, Colorado 80202

Telephone: (303) 297-2900

Attorneys for Applicants, The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines.

Sherman and Howard (Salazar) C: Vranesh & Raisch (Shimmin) Division Engineer State Engineer

VRANESH & RAISCH

Michael D. Shimmin, Post Office Box 871 Boulder, Colorado 80306 Telephone: (303) 443-6151 Attorneys for Objector JVRC, Inc.

Filad in the office of the Clerk, District Court Water Division No. 2, State of Colorado

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#### EXHIBIT A

#### The Subject Lands consist of the following:

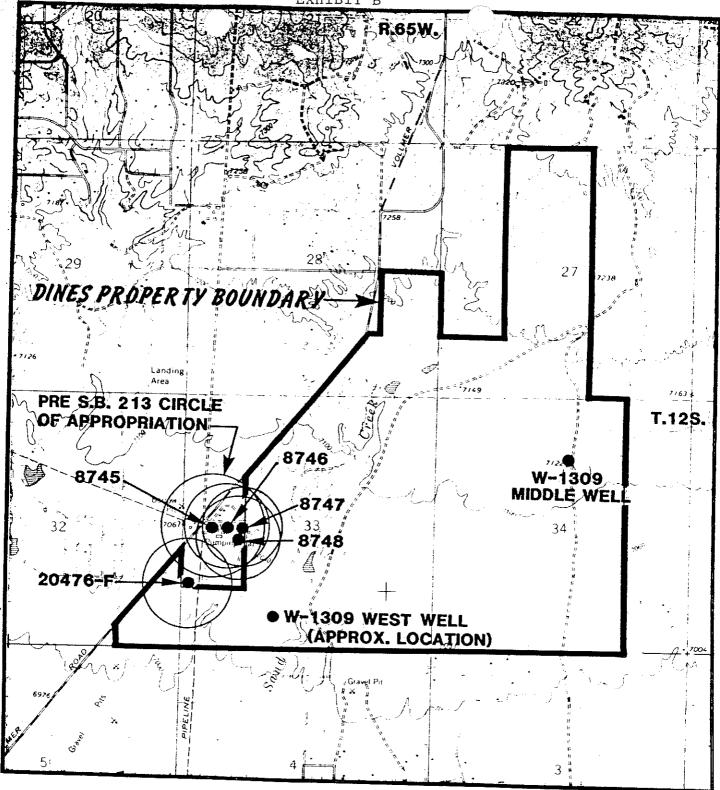
The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the El/2 SEl/4 and that portion of the SW1/4 SEl/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, and that portion of the NEL/4 SEL/4 of said Section 32, lying South and East of said County Road; the El/2 and the El/2 SW1/4 and the SW1/4 SW1/4 of Section 33, and all that part of the NW1/4 of said Section 33 lying South and East of the said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the El Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado.

> Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

> > OCT 29 1986

Riscilles Adurers

Clerk



SCALE 1:24000

## **LOCATION MAP**

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**FIGURE 1** 

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DISTRICT COURT, WATER DIVISION NO. 1, COLORADO

SENOV 9 P2: DB

Case No. 85CW445

RULING AND DECREE OF THE WATER COURT

ASTORNALLING COUNT ASTORNALLING COUNT

CONCERNING THE APPLICATION FOR WATER RIGHTS OF ED PENDLETON AND BEVERLY C. PENDLETON

IN THE NONTRIBUTARY DENVER, ARAPAHOE, AND LARAMIE-FOX HILLS AQUIFERS AND THE NOT NONTRIBUTARY UPPER DAWSON AQUIFER, in El Paso County.

THIS CLAIM, having been originally filed with the Water Division No. 1 Water Clerk on December 31, 1985, all matters contained in the application having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections made as are indicated by the evidence presented herein, IT IS HEREBY THE RULING OF THE WATER REFEREE:

#### FINDINGS OF FACT

1. Name, Address, and Telephone Number of Applicants:

Ed Pendleton and Beverly C. Pendleton c/o Mr. Merle McClung 8085 South Chester Street Englewood, Colorado 80012 (303) 790-1776

Applicants shall be referred to hereafter singularly as the Applicant.

2. <u>History of Case:</u>

The Applicant is represented by Saunders, Snyder, Ross & Dickson, P.C. (William B. Tourtillott and Robert E. Schween). The original application for underground water rights from nontributary sources was filed with this Court on December 31, 1985. An amended application for underground water rights from nontributary and not nontributary sources was filed with this Court on March 31, 1987 and published in the March 1987 Water Resume for Water Division No. 1. A timely statement of opposition was filed to the amended application by the City of Colorado Springs (Gregory L. Johnson). No other statements of opposition or motions to intervene have been filed, and the period for filing of statements of opposition has expired.

### 3. Subject Matter Jurisdiction:

1.1

Timely and adequate notice of the pendency of these proceedings has been given in the manner required by law. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties, whether they have appeared or not.

## 4. Aquifer and Location of Ground Water:

In this proceeding, Applicant seeks a ruling and decree for rights to all ground water recoverable from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers and the not nontributary Upper Dawson aquifer underlying Applicant's property in El Paso County, Colorado. The Applicant's property, which is subject to this case, is described as follows: all of Section 16; the El/2 SW1/4 and the SE1/4 of Section 17; the El/2 and the El/2 W1/2 of Section 20; the NE 1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21, all in Township 11 South, Range 65 West of the 6th P.M., consisting of 1840 acres, more or less. Applicant is the owner of the ground water rights underlying the above-described land and no part of such land lies within a designated ground water basin. A general location map of the property is attached hereto as Exhibit "A."

#### 5. Specific Wells Claimed:

The legal descriptions of the wells to be constructed under this decree are as follows:

- A. Upper Dawson Aquifer
  - (1) Bar X DA-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 2,000 feet from the North section line of said Section 16.
  - (2) Bar X DA-2: NE1/4 SE1/4, Section 17, Township 11 South, Range 65 Nest of the 6th P.M., at a point which is 500 feet from the East Section line and 1,500 feet from the South section line of said Section 17.
  - (3) Bar X DA-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 800 feet from the North section line of said Section 21.

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(4) Bar X DA-4: NW1/4 SW1/4, Section 21, Township 12 South, Range 65 West of the 6th P.M., at a point which is 400 feet from the West Section line and 1,500 feet from the South section line of said Section 21.

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B. Denver Aquifer

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S.,

- (1) Bar X D-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 2,000 feet from the North section line of said Section 16.
- (2) Bar X D-2: NE1/4 SE1/4, Section 17, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the East Section line and 1,500 feet from the South section line of said Section 17.
- (3) Bar X D-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 800 feet from the North section line of said Section 21.
- (4) Bar X D-4: NW1/4 SW1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the West Section line and 1,500 feet from the South section line of said Section 21.
- C. <u>Arapahoe Aquifer</u>
  - (1) Bar X A-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 2,050 feet from the North section line of said Section 16.
  - (2) Bar X A-2: NE1/4 SE1/4, Section 17, Township 11 South, Range 65 West of the 6th P.M., at a point which is 500 feet from the East Section line and 1,450 feet from the South section line of said Section 17.

- (3) Bar X A-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 850 feet from the North section line of said Section 21.
- (4) Bar X A-4: NW1/4 SW1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 400 feet from the West Section line and 1,450 feet from the South section line of said Section 21.
- (5) Bar X A-5: SW1/4 NE1/4, Section 20, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,500 feet from the East Section line and 1,500 feet from the North section line of said Section 20.
- D. Laramie-Fox Hills Aquifer
  - (1) Bar X LFH-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 2,050 feet from the North section line of said Section 16.
  - (2) Bar X LFH-2: NE1/4 SE1/4, Section 17, Township ll South, Range 65 West of the 6th P.M., at a point which is 450 feet from the East Section line and 1,450 feet from the South section line of said Section 17.
  - (3) Bar X LFH-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 850 feet from the North section line of said Section 21.
  - (4) Bar X LFH-4: NW1/4 SW1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the West Section line and 1,450 feet from the South section line of said Section 21.

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#### 6. Well Permits:

Applicant will make application for permits for each Α. well described herein at such time as Applicant is ready to construct each well or series of wells.

В. The State Engineer shall consider the rights granted herein as valid. Because a unified municipal water supply system is planned to serve this property, the system will be constructed pursuant to a phased development program over a considerable period of time. Each well will be drilled and completed as it is needed pursuant to such phased development program. Accordingly, the Court determines that if Applicant fails to construct any of said wells within the period of time specified in the corresponding well permits, it may reapply and the State Engineer shall promptly reissue that well permit for the amount of water determined herein with burdens no more restrictive than found herein.

#### 7. Average Annual Amounts of Withdrawal Available:

#### Not Nontributary Upper Dawson Aquifer:

Pursuant to the Denver Basin Rules, the ground water in the Upper Dawson aguifer underlying Applicant's property is classified as not nontributary ground water. The hydrologic values and the average annual amount available for withdrawal

Sand	Specific	Average Annual Amt.
<u>Thickness</u>	Yield	in Acre-Feet
490 feet	.20%	1803

#### Nontributary Denver, Arapahoe, and Laramie-Fox Hills в. Aquifers:

Pursuant to the Denver Basin Rules, the ground water in the Denver, Arapahoe, and Laramie-Fox Hills aguifers underlying Applicant's property is classified as nontributary ground water, as defined in § 37-90-103(10.5), C.R.S. The hydrologic values and the average annual amounts available for withdrawal from the Denver, Arapahoe, and Laramie-Fox Hills aquifers are as follows:

<u>Aquifer</u>	<u>Acreage</u>	Sand <u>Thickness</u>	Specific Yield	Average Annual Amt. in Acre-Feet
Denver	1840	435 feet	.17%	1360
Arapahoe	1840	260 feet	.17%	813
Laramie- Fox Hills	1840	200 feet	.15%	552

C. The above values and amounts are consistent with the Determinations of Facts issued by the Office of the State Engineer (April 29, 1986).

#### 8. Nominal Pumping Rates and Estimated Average Well Depths:

Aquifer	Combined	lndividual	Well Depth
	<u>Rate</u>	Well Rate	(Average)
Upper Dawson	1500 gpm (3.3cfs)	375 gpm (.84cfs)	1,040 feet
Denver	1200 gpm (2.6cfs)	300 gpm (.66cfs)	1,930 feet
Arapahoe	750 gpm (1.6cfs)	150 gpm (.33cfs)	2,450 feet
Laramie-Fox Hills	480 gpm (1.0cfs)	120 gpm (.26cfs)	2,950 feet

#### 9. Final Average Annual Amounts of Withdrawal:

A. Final determinations of the applicable average specific yields, saturated sand thicknesses, and resulting average annual amounts available to Applicant from each aquifer will be made pursuant to the retained jurisdiction of this Court, as described in paragraph 21 hereinbelow. In the event this decree is not reopened for a further quantitative determination, the findings herein are final and controlling.

B. The allowed annual amount of ground water which may be withdrawn from such aquifers through the wells specified above and any additional wells, pursuant to § 37-90-137(10), C.R.S. (1985 Supp.), may exceed the average annual amount of withdrawal, as long as the total volume of water withdrawn through such wells and any additional wells therefor subsequent to the date of this decree does not exceed the product of the number of years since the date of the issuance of the well permits or the date of this decree, whichever is earliest in time, multiplied by the average annual amount of withdrawal, as specified above or as determined pursuant to the retained jurisdiction of the Court.

#### 10. <u>Source of Ground Water; Limitations on Consumption;</u> <u>Replacement Obligations and Requirements:</u>

A. The ground water to be withdrawn from the Denver, Arapahoe, and Laramie-Fox Hills aguifers is "nontributary ground water" as defined in § 37-90-103(10.5), C.R.S. (1985 Supp.), and in the Denver Basin Rules, the withdrawal of which will not, within 100 years, deplete the flow of a natural stream, including a natural stream as defined in §§ 37-82-101(2) and 37-92-102(1)(b), C.R.S., at an annual rate greater than 1/10 of 1% of the annual rate of withdrawal. The ground water to be withdrawn from the Upper Dawson aguifer is "not nontributary ground water" as described in the Denver Basin Rules, 2 C.C.R. 402-6, Rule 5A.

B. Applicant may not consume more than 98% of the annual quantity of water withdrawn from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers. The relinquishment of 2% of the annual amount of water withdrawn to the stream system, as required by the Denver Basin Rules effective January 1, 1986, may be satisfied by any method selected by the Applicant and satisfactory to the State Engineer, so long as Applicant can demonstrate that an amount equal to 2% of such withdrawals (by volume) has been relinquished to the stream system.

C. The ground water to be withdrawn from the Upper Dawson aquifer is classified as not nontributary, requiring as a condition precedent to use that Applicant obtain a judicially approved augmentation plan for the replacement of depletions to the affected stream system. Pursuant to the statutory requirement at § 37-90-137(9)(c), C.R.S. (1985 Supp.), the amount of the replacement must be the actual depletive effect caused by withdrawal of the resource to the extent necessary to prevent injury.

#### 11. No Material Injury:

There is unappropriated ground water available for withdrawal from each aquifer beneath the land described herein, and the vested water rights of others will not be materially injured by such withdrawals as described hereby. The minimum useful life of each of the subject aquifers is at least 100 years, assuming no substantial artificial recharge within 100 years. No material injury to vested water rights of others will result from the issuance of permits for the subject wells or the exercise of the rights and limitations specified in this decree therefor.

#### 12. Additional Wells and Well Fields:

A. The Applicant proposes to build a unified municipal water system over the period of many years and will construct its wells as required by development. Any well drilled within 200 feet of a decreed location will be deemed to be constructed at the decreed well location pursuant to the permit and this decree.

B. In addition to the wells described in paragraph 5 above, Applicant may construct additional and replacement wells in order to maintain levels of production, to meet municipal water supply systems demands, or to recover the entire amount of ground water in the subject aquifers underlying the subject property, as described herein. As additional wells are planned, applications shall be filed in accordance with § 37-90-137(10), C.R.S. (1985 Supp.).

C. So long as allowed annual amounts are not exceeded, the pumping rates for the wells may exceed the pumping rates specified herein in order to meet municipal water system supply requirements or to produce the full acre foot allocation of water from each aquifer. Two or more wells constructed into the same aquifer shall be considered a well field. In effecting production of water from such well field, Applicant may produce the entire amount which may be produced hereunder from the particular aquifer through any combination of wells within the well field for that particular aquifer.

D. In considering applications for permits for additional wells to withdraw the ground water which is the subject of this decree, the State Engineer shall be bound by this decree and shall issue said permits in accordance with provisions of § 37-90-137(4), C.R.S. (1985 Supp.). Applicant shall not be required to submit any additional proof or evidence of matters finally determined herein when making application for permits for wells to withdraw the water which is the subject of this decree, except that the State Engineer may require revised land ownership or consent to use affidavits.

E. In the event that the allowed average annual amounts decreed herein are adjusted pursuant to the retained jurisdiction of the Court, any existing permit(s) for any well(s) decreed herein shall be amended to reflect such adjusted average annual amounts. New permits for any wells herein shall likewise reflect any such adjustment of the average annual amounts decreed herein.

#### 13. Proposed Uses of Water:

The water withdrawn from any well may be used, reused, and successively used and otherwise disposed of for all municipal purposes including domestic, industrial, commercial, irrigation, stock watering, recreational, fish and wildlife, fire protection and sanitary purposes subject to the provisions of paragraph 20 herein. This water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for exchange purposes, for replacement of depletions resulting from the use of this ground water or of water from other sources, and for augmentation purposes. Moreover, Applicant may use return flows of this ground water to replace stream depletions under a plan for augmentation approved in compliance with applicable law.

#### 14. Conditions:

For each well constructed pursuant to this decree, Applicant shall comply with the following conditions:

A. A totalizing flow meter shall be installed on the well discharge prior to diverting any water therefrom. Applicant shall keep accurate records of all diversions by the well, make any calculations necessary, and submit such records to the Water Division No. 1 Engineer annually.

B. The entire length of the open bore hole shall be geophysically surveyed prior to casing and copies of the geophysical log submitted to the Division of Water Resources. Applicant may provide a geophysical log from an adjacent well or test hole, pursuant to Rule 8F of the Statewide Rules and acceptable to the State Engineer, which fully penetrates the aquifer, in satisfaction of the above requirement.

C. The ground water production shall be limited to the specific aquifer for which the well was designed. Plain, unperforated casing must be installed and properly grouted to prevent withdrawal from or intermingling of water from zones other than those for which the well was designed.

D. Each well shall be permanently identified by its permit number, this Water Court Case Number, and the name of the producing aquifer on the above-ground portion of the well casing or on the pumphouse.

#### CONCLUSIONS OF LAW

15. The Water Court has jurisdiction over this proceeding pursuant to § 37-90-137(6), C.R.S. This Court concludes as a matter of law that the application herein is one contemplated by Section 37-90-137(4), C.R.S. The application for a decree law. confirming Applicant's right to withdraw and use all ground water from the named nontributary and not nontributary aquifers beneath its property as described herein pursuant to § 37-90-137(4), C.R.S. (1985 Supp.), should be granted, subject to the provisions of this decree. The nature and extent of the rights to nontributary and not nontributary ground water determined herein are defined by §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1985 Supp.). The withdrawal of the ground water decreed herein in accordance with the terms of this decree will not result in material injury to vested water rights of others as a matter of law.

16. The rights to nontributary and not nontributary ground water determined herein shall not be administered in accordance with priority of appropriation. Such rights are not "conditional water rights" as defined by § 37-92-103(6), C.R.S. The provisions of § 37-92-301(4), C.R.S., requiring quadrennial findings of reasonable diligence are not applicable to the ground water rights determined herein. The determination of ground water rights herein need not include a date of initiation of the withdrawal project. See § 37-92-305(11), C.R.S. (1985 Supp.). Ground water herein which is not nontributary shall be administered only pursuant to §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1985 Supp.).

17. Subject to paragraph 20, below, Applicant is entitled to permits to construct the wells described in paragraph 5 hereof which will withdraw nontributary and not nontributary ground water pursuant to § 37-90-137(4), C.R.S., and such additional wells as may be required in the future to withdraw such ground water pursuant to § 37-90-137(10), C.R.S. (1985 Supp.).

IT IS THEREFORE, ORDERED, ADJUDGED, AND DECREED THAT:

18. The Findings of Fact and Conclusions of Law are incorporated into this decree of the Water Court.

#### 19. Right to Withdraw Nontributary Ground Water:

The Applicant may withdraw the nontributary ground water herein through the wells listed above at the locations listed above and in the average annual amounts and at the rates of flow specified therefor, subject to the limitations herein and the retained jurisdiction by this Court.

#### 20. <u>Replacement Obligation for Use of Not Nontributary Ground</u> <u>Water Rights:</u>

By separate application, Applicant will seek a plan for augmentation of depletions associated with the withdrawal of Upper Dawson ground water decreed hereby. No such augmentation plan is sought in this case. Judicial approval of such a plan for augmentation is a condition precedent to withdrawal and use of this resource.

21. Retained Jurisdiction:

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A. The Court retains jurisdiction as necessary to adjust the average annual amounts of nontributary and not nontributary ground water available under the property to conform to actual local aquifer characteristics as determined from adequate information obtained from wells, pursuant to § 37-92-305(11), C.R.S. (1985 Supp.). Within 60 days after completion of any well decreed herein, or any test hole(s), Applicant or any successor in interest to these water rights shall obtain a geophysical log of said well(s) or test hole(s) and shall serve such log(s) upon the State Engineer and notify each of the parties who have appeared herein that copies of the log and well completion report, if the well is completed, are available for review.

B. At such time as adequate data are available and within four months of notice that the retained jurisdiction for such purpose has been invoked, the State Engineer shall use the information available to him to make a final determination of water rights finding. The State Engineer shall submit such finding to the Water Court and to the Applicant, and the Applicant shall serve a copy upon the other parties.

C. If no protest to such finding is made within 60 days, the Final Determination of Water Rights shall be incorporated into the decree by the Water Court. In the event of a protest, or in the event the State Engineer makes no determination within four months, such final determination shall be made by the Water Court after notice and hearing.

D. In the event Applicant fails to invoke retained jurisdiction, the State Engineer or any party hereto may do so. In the interim, the Court retains jurisdiction in this matter pursuant to § 37-92-305(11), C.R.S. (1985 Supp.).

RULING ENTERED this 9th day of November 1988.

ldna

Raymond S. Liesman Water Referee Water Division No. 1 State of Colorado

THE COURT DOTH FIND THAT NO PROTEST TO THE RULING OF THE REFEREE HAS BEEN FILED. THE FOREGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

December 12, 1988 DATED:

22 Robert A. Behrman

Water Judge Water Division No. 1 State of Colorado

THE WATER RIGHT FOR Dowson Azulfer HAS DEEN MOD AR MAR 92-CW

APPROVED AS TO FORM AND CONTENT:

SAUNDERS, SNYDER, ROSS & DICKSON, P.C.

Date: 15 Oct. 1987

William B. Tourtillott, Jr., #184 By

William B. Tourtillott, Jr., #184 Robert E. Schween, #12923 707 17th Street Suite 3500 Denver, Colorado 80202 (303) 292-6600

ATTORNEYS FOR APPLICANT ED PENDLETON AND BEVERLY C. PENDLETON

ANDERSON, JOHNSON, & GIANUNZIO

By\_

Gregory L. Johnson/ #448 Mark T. Pifher, #12629 104 S. Cascade Ave., Suite 204 P.O. Box 240 Colorado Springs, Colorado 80901-0240 (303) 632-3545

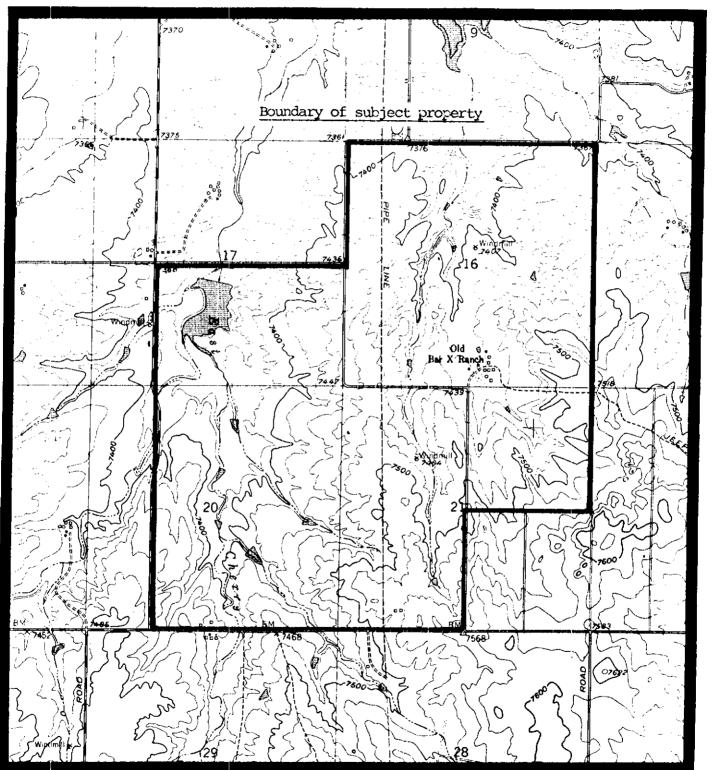
ATTORNEYS FOR OBJECTOR CITY OF COLORADO SPRINGS

Date: 10-15-87

EXHIBIT A TO RULING AND DECREE CASE NO. 85CW445

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£ <sup>*</sup>	RES	Filed in the office whe Clerk, District Coort Water Division Na 2, State of Coheredo
DISTRICT COURT, WATER DIVISION Case No. 85CW131	No. 2. COLOBADO	MAY 18 1988
DECREE OF THE WATER COURT	SAU	Clerk
	ROSS & DICKSUN	

CONCERNING THE APPLICATION FOR WATER RIGHTS OF PENDLETON LAND AND EXPLORATION, INC.

IN THE NONTRIBUTARY DENVER, ARAPAHOE, AND LARAMIE-FOX HILLS AQUIFERS AND THE NOT NONTRIBUTARY DAWSON, DENVER, AND ARAPAHOE AQUIFERS, in El Paso County.

THIS CLAIM, having been originally filed with the Water Division No. 2 Water Clerk on December 31, 1985, all matters contained in the application having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections made as are indicated by the evidence presented herein, the Court makes the following:

#### FINDINGS OF FACT

1. Name, Address, and Telephone Number of Applicant:

Pendleton Land and Exploration, Inc. c/o Mr. Merle McClung 8085 S. Chester St. Englewood, Colorado 80012 (303) 790-1776

2. <u>History of Case</u>:

The Applicant is represented by Saunders, Snyder, Ross & Dickson, P.C. (William B. Tourtillott and Robert E. Schween). The original application for underground water rights from nontributary sources was filed with this Court on December 31, An amended application for underground water rights from 1985. nontributary and not nontributary sources was filed with this Court on April 24, 1987 and published in the May 1987 Water Resume for Water Division No. 2. Timely statements of opposition were filed to the original and amended application by the City of Colorado Springs (Gregory L. Johnson), JVRC, Inc. (Michael D. Shimmin), Upper District 10 Water Users Association (Gregory L. Johnson), and Black Forest Land Use Committee (Barbara Hosmer). No other statements of opposition or motions to intervene have been filed, and the period for filing of statements of opposition has expired

#### 3. Subject Matter Jurisdiction:

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Timely and adequate notice of the pendency of these proceedings has been given in the manner required by law. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties, whether they have appeared or not.

## 4. Aquifers and Location of Ground Water:

A. In this proceeding, Applicant seeks a decree for rights to all ground water recoverable from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers and the not nontributary Dawson, Denver, and Arapahoe aquifers underlying Applicant's property in El Paso County, Colorado.

B. The ground water rights are linked to different portions of Applicant's property as generally described below:

#### 1. <u>Dawson Aquifer</u>

Applicant will withdraw not nontributary ground water from the Dawson aquifer underlying approximately 2280 acres of property as more particularly described on Exhibit "A" attached hereto and made a part hereof. A general location map of the property is attached as Exhibit "B."

#### 2. <u>Denver Aquifer</u>

Applicant will withdraw not nontributary ground water from the Denver aquifer underlying approximately 2080 acres of property and nontributary ground water from the Denver aquifer underlying approximately 200 acres of property as more particularly described on Exhibit "C" attached hereto and made a part hereof. A general location map of the property designated as not nontributary and nontributary in the Denver aquifer is attached as Exhibit "D."

#### 3. Arapahoe Aquifer

Applicant will withdraw not nontributary ground water from the Arapahoe aquifer underlying approximately 634 acres of property and nontributary ground water from the Arapahoe aquifer underlying approximately 1646 acres of property as more particularly described on Exhibit "E" attached hereto and made a part hereof. A general location map of the property designated as not nontributary and nontributary in the Arapahoe aquifer is attached as Exhibit "F "

#### 4. Laramie-Fox Hills Aquifer

Applicant will withdraw nontributary ground water from the Laramie-Fox Hills aquifer underlying approximately 2280 acres of property as more particularly described on Exhibit "A." A general location map of the property is attached as Exhibit "B."

C. Applicant is the owner of the ground water rights underlying the above-described lands and no part of such lands lies within a designated ground water basin.

#### 5. Specific Wells Claimed:

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The legal descriptions of the wells to be constructed under this decree are as follows:

#### A. <u>Dawson Aquifer</u>

- (1) West DA-1: SW1/4 NW1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,000 feet from the West Section line and 2,000 feet from the North section line of said Section 26.
- (2) West DA-2: SW1/4 NW1/4, Section 25, Township 11 South, Range 66 West of the 6th P.M., at a point which is 300 feet from the West Section line and 1,500 feet from the North section line of said Section 25.
- (3) West DA-3: NW1/4 NW1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 200 feet from the West Section line and 1,000 feet from the North section line of said Section 35.
- (4) West DA-4: SE1/4 SE1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,000 feet from the East Section line and 500 feet from the South section line of said Section 26.
- (5) West DA-5: NW1/4 SE1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 2,000 feet from the East Section line and 1,500 feet from the South section line of said Section 35.

- (6) West DA-6: NE1/4 NE1/4, Section 3, Township 12 South, Range 66 West of the 6th P.M., at a point which is 1,200 feet from the East Section line and 300 feet from the North section line of said Section 3.
- B. <u>Denver Aquifer</u>

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- (1) West D-1: SW1/4 NW1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,050 feet from the West Section line and 2,000 feet from the North section line of said Section 26.
- (2) West D-2: SW1/4 NW1/4, section 25, Township 11 South, Range 66 West of the 6th P M., at a point which is 350 feet from the West line and 1500 feet from the North line of said Section 25.
- (3) West D-3: NW1/4 NW1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 250 feet from the West Section line and 1,000 feet from the North section line of said Section 35.
- (4) West D-4: SE1/4 SE1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 950 feet from the East Section line and 500 feet from the South section line of said Section 26.
- (5) West D-5: NW1/4 SE1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,950 feet from the East Section line and 1,500 feet from the South section line of said Section 35.
- (6) West D-6: NE1/4 NE1/4, Section 3, Township 12 South, Range 66 West of the 6th P.M., at a point which is 1,150 feet from the East Section line and 300 feet from the North section line of said Section 3.
- C. Arapahoe Aquifer
  - (1) West A-1. SW1/4 NW1/4, Section 26, Township ll South, Range 66 West of the 6th P M, at a point which is 1,000 feet from the West Section line and 2,050 feet from the North section line of said Section 26.

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- (2) West A-2: SW1/4 NW1/4. Section 25. Township 11 South. Range 66 West of the 6th P.M., at a point which is 300 feet from the West Section line and 1,550 feet from the North section line of said Section 25.
- (3) West A-3: NW1/4 NW1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 200 feet from the West Section line and 1.050 feet from the North section line of said Section 35.
- (4) West A-4: SE1/4 SE1/4. Section 26. Township 11 South. Range 66 West of the 6th P.M., at a point which is 1,000 feet from the East Section line and 450 feet from the South section line of said Section 26.
- (5) West A-5: NW1/4 SE1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 2,000 feet from the East Section line and 1,450 feet from the South section line of said Section 35.
- (6) West A-6: NE1/4 NE1/4. Section 3. Township 12 South. Range 66 West of the 6th P.M., at a point which is 1,200 feet from the East Section line and 350 feet from the North section line of said Section 3.

#### D. Laramie-Fox Hills Aquifer

- (1) West LFH-1: SW1/4 NW1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,050 feet from the West Section line and 2,050 feet from the North section line of said Section 26.
- (2) West LFH-3: NW1/4 NW1/4. Section 35. Township 11 South, Range 66 West of the 6th P.M., at a point which is 250 feet from the West Section line and 1,050 feet from the North section line of said Section 35.
- (3) West LFH 4: SE1/4 SE1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 950 feet from the East Section line and 450 feet from the South section line of said Section 26

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(4) West LFH-6: NE1/4 NE1/4. Section 3. Township 12 South. Range 66 West of the 6th P M., at a point which is 1,150 feet from the East Section line and 350 feet from the North section line of said Section 3

#### 6. <u>Well Permits</u>:

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A. Applicant will make application for permits for each well described herein at such time as Applicant is ready to construct each well or series of wells.

B. The State Engineer shall consider the rights granted herein as valid. Because a unified municipal water supply system is planned to serve this property, the system will be constructed pursuant to a phased development program over a considerable period of time. Each well will be drilled and completed as it is needed pursuant to such phased development program. Accordingly, the Court determines that if Applicant fails to construct any of said wells within the period of time specified in the corresponding well permits, it may reapply and the State Engineer shall promptly reissue that well permit for the amount of water determined herein with burdens no more restrictive than found herein.

## 7. Average Annual Amounts of Withdrawal Available:

## A. Not Nontributary Dawson, Denver, and Arapahoe Aquifers:

Pursuant to the Denver Basin Rules, the ground water in the Dawson, Denver, and Arapahoe aquifers underlying all or part of Applicant's property, as described in Paragraph 4 herein. is classified as not nontributary ground water. The hydrologic values and the average annual amounts available for withdrawal from the not nontributary Dawson, Denver, and Arapahoe aquifers are as follows:

<u>Aquifer</u>	<u>Acreage</u>	Sand <u>Thıckness</u>	Specific <u>Yield</u>	Ave. Ann. Amt. in Acre-Feet
Dawson	2280	375 feet	20%	1710
Denver	2080	550 feet	17%	1945
Arapahoe	634	220 feet	17%	237

#### B. <u>Nontributary Denver, Arapahoe, and Laramie-Fox Hills</u> <u>Aquifers</u>:

Pursuant to the Denver Basin Rules, the ground water in the Denver, Arapahoe, and Laramie-Fox Hills aquifers underlying all or part of Applicant's property, as described in Paragraph 4 herein, is classified as nontributary ground water, pursuant to § 37-90-137(9)(c), C.R.S. The hydrologic values and the average annual amounts available for withdrawal from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers are as follows:

<u>Aquifer</u>	<u>Acreage</u>	Sand <u>Thickness</u>	Specific Yield	Ave. Ann. Amt. <u>IN Acre-Feet</u>
Denver	200	550 feet	17%	187
Arapahoe	1646	220 feet	17%	616
Laramie- Fox Hills	2280	200 feet	15%	684

C. The above values and amounts are consistent with the Findings of the State Engineer issued on March 25, 1986, and supplemented on November 5, 1987.

# 8. <u>Final and Interim Average Annual Amounts of Withdrawal; and Allowed Amounts of Withdrawal Exceeding Average Annual Amounts:</u>

A. Final determinations of the applicable average saturated sand thicknesses and resulting average annual amounts available to Applicant from each aquifer will be made pursuant to the retained jurisdiction of this Court, as described in paragraph 18 hereinbelow. In the event this decree is not reopened for a further quantitative determination, the findings herein are final and controlling.

B. The allowed annual amount of ground water which may be withdrawn from such aquifers through the wells specified above and any additional wells, pursuant to § 37-90-137(10), C.R.S. (1987 Supp.), may exceed the average annual amount of withdrawal, as long as the total volume of water withdrawn through such wells and any additional wells therefor subsequent to the date of this decree does not exceed the product of the number of years since

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the date of the issuance of the well permits or the date of this decree, whichever is earliest in time, multiplied by the average annual amount of withdrawal, as specified above or as determined pursuant to the retained jurisdiction of the Court.

#### 9. <u>Source of Ground Water; Limitations on Consumption;</u> <u>Replacement Obligations and Requirements</u>:

A. The ground water to be withdrawn from the Laramie-Fox Hills aquifer and the described portions of the Denver and Arapahoe aquifers is "nontributary ground water" as defined in § 37-90-103(10.5), C.R.S. (1987 Supp.), and in the Denver Basin Rules, the withdrawal of which will not, within 100 years, deplete the flow of a natural stream, including a natural stream as defined in §§ 37-82-101(2) and 37-92-102(1)(b), C.R.S., at an annual rate greater than 1/10 of 1% of the annual rate of withdrawal.

B. Applicant may not consume more than 98% of the annual quantity of water withdrawn from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers. The relinquishment of 2% of the annual amount of water withdrawn to the stream system, as required by the Denver Basin Rules effective January 1, 1986, may be satisfied by any method selected by the Applicant and satisfactory to the State Engineer, so long as Applicant can demonstrate that an amount equal to 2% of such withdrawals (by volume) has been relinquished to the stream system.

C. Withdrawal of ground water from the Dawson aquifer and the described portions of the Denver and Arapahoe aquifers <u>will</u>, within 100 years, deplete the flow of a natural stream at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal therefrom. Such ground water is not nontributary and requires, as a condition precedent to use, that Applicant obtain a judicially approved augmentation plan for the replacement of depletions to the affected stream system, pursuant to the statutory requirements in effect at such time that the augmentation plan is prosecuted.

D. There is unappropriated ground water available for withdrawal from each aquifer beneath the land described herein, and the vested water rights of others will not be materially injured by such withdrawals as described hereby. The minimum useful life of each of the subject aquifers is at least 100 years, assuming no substantial artificial recharge within 100 years. No

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material injury to vested water rights of others will result from the issuance of permits for the subject wells or the exercise of the rights and limitations specified in this decree therefor.

#### 10. Additional Wells and Well Fields:

A. The Applicant proposes to build a unified municipal water system over the period of many years and will construct its wells as required by development. Any well drilled within 200 feet of a decreed location will be deemed to be constructed at the decreed well location pursuant to the permit and this decree.

B. In addition to the wells described in paragraph 5 above, Applicant may construct additional and replacement wells in order to maintain levels of production, to meet municipal water supply systems demands or to recover the entire amount of ground water in the subject aquifers underlying the subject property, as described herein. As additional wells are planned, applications shall be filed in accordance with § 37-90-137(10), C.R.S. (1987 Supp.).

C. The pumping rates for the wells may exceed the pumping rates specified in the State Engineer's Findings in order to meet municipal water supply requirements or to produce the full acre foot allocation of water from each aquifer. Two or more wells constructed into the same aquifer shall be considered a well field. Applicant may produce the entire amount which may be produced hereunder from the particular aquifer through any combination of wells within the well field for that particular aquifer; except that wells constructed in the land area overlying not nontributary ground water may produce only such not nontributary ground water. Moreover, Applicant's augmentation plan will have to separately account for nontributary and not nontributary ground water withdrawals from each aquifer.

D. In considering applications for permits for additional wells to withdraw the ground water which is the subject of this decree, the State Engineer shall be bound by this decree and shall issue said permits in accordance with provisions of § 37-90-137(10), C.R.S. (1987 Supp.). Applicant shall not be required to submit any additional proof or evidence of matters finally determined herein when making application for permits for wells to withdraw the water which is the subject of this decree, except that the State Engineer may require revised land ownership or consent to use affidavits and may require such additional information as specified in the Statewide Nontributary Ground Water Rules, 2 CCR 402-7. E. In the event that the allowed average annual amounts decreed herein are adjusted pursuant to the retained jurisdiction of the Court, any existing permit(s) for any well(s) decreed herein shall be amended to reflect such adjusted average annual amounts. New permits for any wells herein shall likewise reflect any such adjustment of the average annual amounts decreed herein.

#### 11. Proposed Uses of Water:

The water withdrawn from any well may be used, reused, and successively used and otherwise disposed of for all municipal purposes including domestic, industrial, commercial, irrigation, stock watering, recreational, fish and wildlife, fire protection and sanitary purposes subject to the provisions of paragraph 20 herein. This water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for exchange purposes, for replacement of depletions resulting from the use of this ground water or of water from other sources, and for augmentation purposes. Moreover, Applicant may use return flows of this ground water to replace stream depletions under a plan for augmentation approved in compliance with applicable law.

#### 12. <u>Conditions</u>:

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For each well constructed pursuant to this decree, Applicant shall comply with the following conditions:

A. A totalizing flow meter shall be installed on the well discharge prior to diverting any water therefrom. Applicant shall keep accurate records of all diversions by the well, make any calculations necessary, and submit such records to the Water Division No. 2 Engineer annually.

B. The entire length of the open bore hole shall be geophysically surveyed prior to casing and copies of the geophysical log submitted to the Division of Water Resources. Applicant may provide a geophysical log from an adjacent well or test hole, pursuant to Rule 9A of the Statewide Rules and acceptable to the State Engineer, which fully penetrates the aquifer, in satisfaction of the above requirement.

C. The ground water production shall be limited to the specific aquifer for which the well was designed. Plain, unperforated casing must be installed and properly grouted to prevent withdrawal from or intermingling of water from zones other than those for which the well was designed. D. Each well shall be permanently identified by its permit number, this Water Court Case Number, and the name of the producing aguifer on the above-ground portion of the well casing or on the pumphouse.

#### CONCLUSIONS OF LAW

The Water Court has jurisdiction over this proceeding 13. pursuant to § 37-90-137(6), C.R.S. This Court concludes as a matter of law that the application herein is one contemplated by Section 37-90-137(4), C.R.S. The application for a decree law. confirming Applicant's right to withdraw and use all ground water from the named nontributary and not nontributary aquifers beneath its property as described herein pursuant to § 37-90-137(4), C.R.S. (1987 Supp.), should be granted, subject to the provisions of this decree. The nature and extent of the rights to nontributary and not nontributary ground water determined herein are defined by §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1987 The withdrawal of the ground water decreed herein in Supp.). accordance with the terms of this decree will not result in material injury to vested water rights of others.

14. The rights to nontributary and not nontributary ground water determined herein shall not be administered in accordance with priority of appropriation. Such rights are not "conditional water rights" as defined by § 37-92-103(6), C.R.S. The provisions of § 37-92-301(4), C.R.S., requiring quadrennial findings of reasonable diligence are not applicable to the ground water rights determined herein. The determination of ground water rights herein need not include a date of initiation of the withdrawal project. See § 37-92-305(11), C.R.S. (1987 Supp.). Ground water herein which is not nontributary shall be administered only pursuant to §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1987 Supp.).

## IT IS THEREFORE, ORDERED, ADJUDGED, AND DECREED THAT:

15. The Findings of Fact and Conclusions of Law are incorporated into this decree of the Water Court.

## 16. Right to Withdraw Nontributary Ground Water:

The Applicant may withdraw the nontributary ground water herein through the wells listed above at the locations listed above and in the average annual amounts and at the rates of flow specified therefor, subject to the limitations herein and the retained jurisdiction by this Court.

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### 17. <u>Replacement Obligation for Use of Not Nontributary Ground</u> Water Rights:

By separate application, Applicant will seek a plan for augmentation of depletions associated with the withdrawal of not nontributary Dawson, Denver, and Arapahoe ground water as described in Paragraph 7A herein and decreed hereby. No such augmentation plan is sought in this case. Judicial approval of such a plan for augmentation is a condition precedent to withdrawal and use of these resources.

### 18. <u>Retained Jurisdiction</u>:

A. The Court retains jurisdiction as necessary to adjust the average annual amounts of nontributary and not nontributary ground water available under the property to conform to actual local aquifer characteristics as determined from adequate information obtained from wells, pursuant to § 37-92-305(11), C.R.S. (1987 Supp.). Within 60 days after completion of any well decreed herein, or any test hole(s), Applicant or any successor in interest to these water rights shall obtain a geophysical log of said well(s) or test hole(s) and shall serve such log(s) upon the State Engineer and notify each of the parties who have appeared herein that copies of the log and well completion report, if the well is completed, are available for review.

B. At such time as adequate data are available and within four months of notice that the retained jurisdiction for such purpose has been invoked, the State Engineer shall use the information available to him to make a final determination of water rights finding. The State Engineer shall submit such finding to the Water Court and to the Applicant, and the Applicant shall serve a copy upon the other parties.

C. If no protest to such finding is made within 60 days, the Final Determination of Water Rights shall be incorporated into the decree by the Water Court. In the event of a protest, or in the event the State Engineer makes no determination within four months, such final determination shall be made by the Water Court after notice and hearing.

D. In the event Applicant fails to invoke retained jurisdiction, the State Engineer or any party hereto may do so. In the interim, the Court retains jurisdiction in this matter pursuant to § 37-92-305(11), C.R.S. (1987 Supp.).

19. Upon obtaining an augmentation for the required replacement of not nontributary withdrawals, Applicant is entitled to permits

Wt. Rts. of Pendleton Land & Exploration Case No. 85CW131 Page 13

to construct the wells described in paragraph 5 hereof which will withdraw not nontributary ground water pursuant to § 37-90-137(4), C.R.S.. and such additional wells as may be required in the future to withdraw such ground water pursuant to § 37-90-137(10), C.R.S. (1985 Supp.). With the entry of this decree, Applicant is entitled to permits to construct such wells which will withdraw nontributary ground water.

DECREE ENTERED this 18 day of Mary 1988.

John R. Tracey Water Judge Water Division No. 2 State of Colorado

APPROVED AS TO FORM AND CONTENT:

SAUNDERS, SNYDER, ROSS & DICKSON, P.C.

Date: 8 FEB. 1988

By

William B. Tourtillott, Jr., #184 Robert E. Schween, #12923 707 17th Street Suite 3500 Denver, Colorado 80202 (303) 292-6600

ATTORNEYS FOR APPLICANT -PENDLETON LAND AND EXPLORATION, INC. Wt. Rts. of Pendleton Land & Exploration Case No. 85CW131 Page 14

ANDERSON, JOHNSON, & GIANUNZIO

Date \_\_\_\_\_

Gregory L. Johnson, #448 Mark T. Pifher, #12629 104 S. Cascade Ave., Suite 204 P.O. Box 240 Colorado Springs, Colorado 80901-02 (303) 632-3545

ATTORNEYS FOR CITY OF COLORADO SPRINGS and UPPER DISTRICT 10 WATER USERS ASSOCIATION

VRANESH AND RAISCH

Mh By

Michael D. Shimmin, #9182 P.O. Box 871 Boulder, Colorado 80306 (303) 443-6151

ATTORNEYS FOR JVRC, INC.

By\_

By\_

Barbara Hosmer, Committee Member 11755 Timberland Court Colorado Springs, Colorado 80908 (303) 495-3948

REPRESENTATIVE OF BLACK FOREST LAND USE COMMITTEE

Date: Jan 4, 1988

Date.\_\_\_\_

Wt. Rts. of Pendleton Land & Exploration Case No. 85CW131 Page 15

ANDERSON, JOHNSON, & GIANUNZIO

Date: Fil 11 1990

By

Gregory L. Johnson, #448 Mark T./Pifher, #12629 104 S. Cascade Ave., Suite 204 P.O. Box 240 Colorado Springs, Colorado 80901-02 (303) 632-3545

ATTORNEYS FOR CITY OF COLORADO SPRINGS and UPPER DISTRICT 10 WATER USERS ASSOCIATION

### VRANESH AND RAISCH

Bv

Michael D. Shimmin, #9182 P.O. Box 871 Boulder, Colorado 80306 (303) 443-6151

ATTORNEYS FOR JVRC, INC.

Date:\_\_\_\_\_

Date: (Jan. 4, 1988

By\_

Barbara Hosmer, Committee Member 11755 Timberland Court Colorado Springs, Colorado 80908 (303) 495-3948

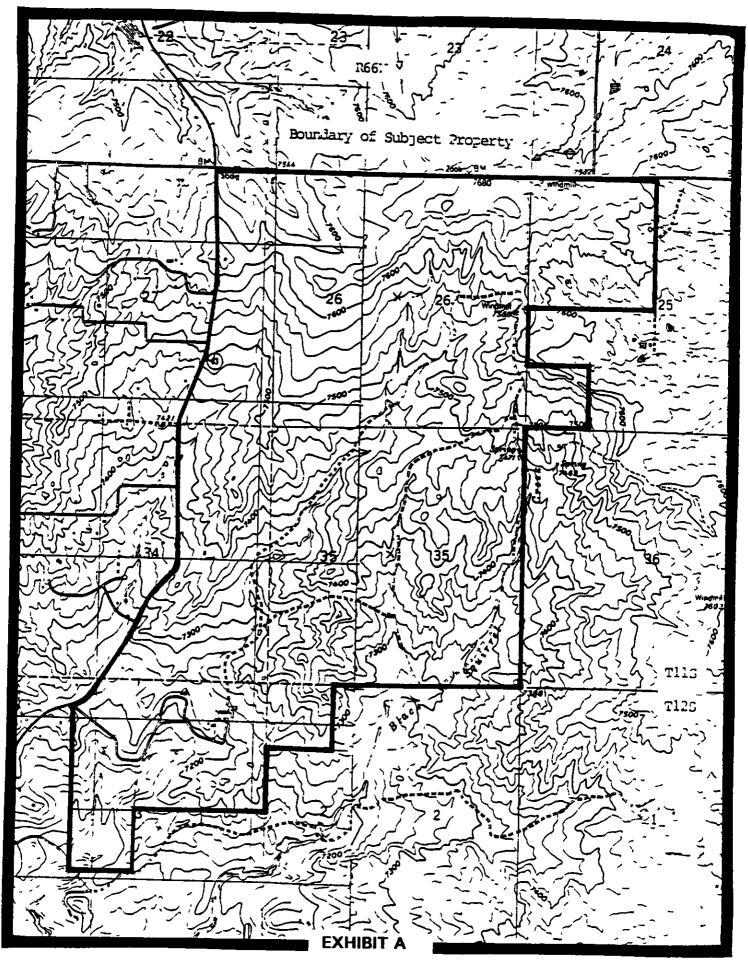
REPRESENTATIVE OF BLACK FOREST LAND USE COMMITTEE

Wt. Rts. of Pendleton Land & Exploration Case No. 85CW131 Page 16 ANDERSON, JOHNSON, & GIANUNZIO Date By. Gregory L. Johnson, #448 Mark T. Pifher, #12629 104 S. Cascade Ave., Suite 204 P.O. Box 240 Colorado Springs, Colorado 80901-02 (303) 632-3545 ATTORNEYS FOR CITY OF COLORADO SPRINGS and UPPER DISTRICT 10 WATER USERS ASSOCIATION VRANESH AND RAISCH Date: By. Michael D. Shimmin, #9182 P.O. Box 871 Boulder, Colorado 80306 (303) 443-6151 ATTORNEYS FOR JVRC, INC. Date - 05-13-84 DOME By Mitica Barbara Hosmer, Committee Member 11755 Timberland Court Colorado Springs, Colorado 80908 (303) 495-3948

> REPRESENTATIVE OF BLACK FOREST LAND USE COMMITTEE

xc: Robert E. Schween Michael D. Shimmin Black Forest Land Use Committee, pro se Gregory L. Johnson Division Engineer State Engineer

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GENERAL LOCATION MAP

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Colorado Department of Natural Resources	Colorado.gov	0
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Colorado's Well Permit Search		
THIS PAGE IS NOT THE ACTUAL PERMIT The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. (Full Disclaimer)		
Permit Issued: Completion Clather United		
Receipt:         3628088A         Division:         1		
Permit #: 1689-BD - Water District: 1		
Well Name / #:         County:         EL PASO           Designated Basin:         KIOWA-BIJOU         Management District:		
Case Number:		
WDID;		
[-] Imaged Documents - Permit File		
Document Name         Date Imaged Annotated           Findings & Order for Determination         05/21/2009		
[-] Applicant/Contact		
Applicant/Contact Name		
MCCUNE GEORGE F & EVELYN 17480 MERIDIAN RD ELBERT, CO 80106-8916		
[-] Location Information		
Approved Well Location:		
Q40 Q160 Section Township Range PM Footage from Section Lines 24 11.05 65.0W Sixth		
24 11.0S 65.0W Slxth Northing (UTM y): 4325550.5 Easting (UTM x): 533176.3		
Location Accuracy: Spotted from quarters		
Subdivision Name		
Filing Block Lot		
Parcel ID: Acres in Tract: 900.52		
[-] Permit Detalls		
Date Issued: 06/25/2008 Date Expires: Uses (See Imaged Documents for more infomation)		
General Use(s): COMMERCIAL Aquifer(s): LARAMIE FOX HILLS DOMESTIC		
Special Use:		
Area which may be irrigated: Annual volume of appropriation:		
Statute:		
Cross Reference Permit(s): Permit Number Receipt		
Comments: DETER ISSUED		
[-] Construction/Usage Datalls		
Well Construction Date: Pump Installation Date: Well Plugged: 1st Beneficial Upp		
Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate		
[-] Application/Permit History		
Permit Issued 06/25/2008 Application Received 04/17/2008		
Disclaimer		
*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.		
This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate. The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).		
Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn		

more about well permitting in Colorado, please visit <u>DWR's Well Permitting Page</u>. If you have any questions about this well permit file, please contact the <u>DWR Ground Water Information Desk</u>

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### COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

IN THE MATTER OF AN APPLICATION FOR DETERMINATION OF WATER RIGHT TO ALLOW THE WITHDRAWAL OF GROUND WATER IN THE KIOWA-BIJOU DESIGNATED GROUND WATER BASIN

APPLICANT:	GEORGE F.	MCCUNE AND EVELYN MCCUN	E MARTINE	<u> </u>
AQUIFER:	LARAMIE-FO	X HILLS		201
DETERMINAT	TON NO .:	1689-BD		

In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills Aquifer.

### FINDINGS

- 1. The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
- 2. The applicant requests a determination of rights to designated ground water in the Laramie-Fox Hills Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
- 3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
- 4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter \*Commission") has jurisdiction.
- 5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
- 6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 26300 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 15 percent.

b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 195 feet.

- 7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
- 8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 263 acre-feet.
- 9. A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
- 10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
- 11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
- 12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural steam or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
- 13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
- 14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

- 15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.
- 16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
- 17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aquifer.

#### ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Laramie-Fox Hills Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

- 18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 263 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal.
- 19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
- 20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
- 21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
- 22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area.

- 23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county in which the claimed overlying land is located notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
- 24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:

a. The wells shall be located on the above described 900.52 acre overlying land area.

b. The wells must be constructed to withdraw water from only the Laramie-Fox Hills Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.

c. The entire depth of each well must be geophysically logged <u>prior</u> to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.

d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.

e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.

f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.

25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Dated this 25th day of June 2008.

1. Week

Dick Wolfe, P.E Executive Director Colorado Ground Water Commission

Colorado Ground Water Commission 511 By: Keith Vander Horst, P.E. Jery Water Resource Engineer >

Prepared by: JPM

92GWS 1 03/2005

EXHIBIT A

1689-BD

Page 1 of 2

### STATE OF COLORADO OFFICE OF THE STATE ENGINEER DIVISION OF WATER RESOURCES 1313 Sherman St. Room 821 Denver, CO 80203 (303) 866-3581 Fax (303) 866-3589

RECEIVED

APR 1 7 2008

WATER RESOLUTCES COLO.

### NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT

### I (We) George F. McCune and Evelyn McCune

(Name(s))

claim and say that I (we) am (are) the owner(s) of the following described property consisting of 900.52 acres in the County of El Paso State of Colorado:

(Insert the property legal description)

SW/4SW/4 Section 18 and W/2 of the W/2 Section19, T11S, R64W, and S/2SE/4 Section 13 and All of Section 24, T11S R65W, 6th PM, El Paso County, 900.52 acres

See attached Quitclaim Deed dated November 29, 1976, and map.

and, that the ground water sought to be withdrawn from the Laramie-Fox Hills aquifer underlying the above-described land has not been conveyed or reserved to another, nor has consent been given to its withdrawal by another.

Further, I (we) claim and say that I (we) have read the statements made herein; know the contents hereof; and that the same are true to my (our) knowledge.

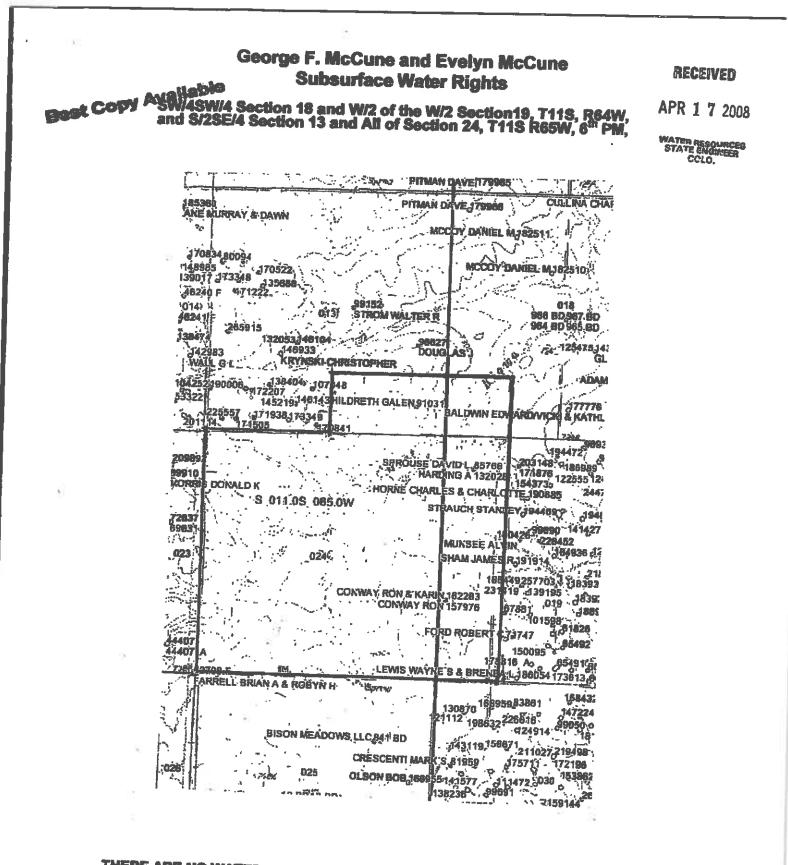
Signature <u>Gebrage 7 Mc Cume</u> Date ( <u>Cuelyn M Mc Cum</u> Date

INSTRUCTIONS:

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word processing means. See additional information on the reverse side.

EXHIBIT A A PAR SHALL LIVE est Copy Available 1689-BD 11 8 18 3 8 Page 2 of 2 Mar in the los STREET, STREET, RECEIVED CUTICEAIM DEED APR 1 7 2008 Sector RAY C. MCUINE and GRETA C. MCCUINE, as humbond and wills, of the County of El Paro and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLORAD COLO great and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. McCUNE and EVELYN M. McCUNE, humand and wife, in joint tenancy, of the County of Elbert and State of Colorado, a one-balf interest in and to all minerals underlying the following described property, including oil and gas, solid property lying and being in the ت. تريد County of El Paso and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Shiry-four; the West half of the West half of Section Nineteen, Township Eleven, Range Shiry-four; the South half of the Southeast Quarter of Section Thiefeen, Township Eleven, Range Shiry-five; All of Section Twenty-four, Township Eleven, Range Shiry-five; continuing in all Nine hundred and filty-two hundredits (900,52) acres, more or less, according to Government with all its appurtenances. . . . No DATED and signed this 22 day of Nou. Consideration 1976. STATE DOCUMEN NOV 2 9 1975 (m) PEE & STATE OF COLORADO COUNTY OF EL PASO The foregoing instrument was acknowledged before me this 2. day of Novi 1. 1. A. A STATE OF A STATE 2.8 10.00 · · · · 

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APPLICATION FOR MATTER RESOURCES     APR 1 7 2008     APR 1 7 200     APR 1 7	COLORADO GROUND WATER COMMISSION	RfArtites.
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	Denver, Arapahoe or Laramie Fox Hills application industrial land apply for a determination of rights to grou	ind water from the Dawson.
with a non-refundable \$20 filing fee. A separate form must be used for each aquifier determination. Type or print in black ink.         I. APPLICANT INFORMATION         Name of Applicant         George F. McCane and Evelyn McCune         Applicant Mailing Address         17480 Meridian Road, Elbert, CO 80106-8916         eto Colorado Water Plane, P O Box 1985, Elbert, CO 80106-8916         Applicant Mailing Address         Applicant To Covertury UNG LADD - the total and area         2. AMCOUNT OF OVERUMY UNG LADD - the total and area         2. AMCOUNT OF OVERUMY UNG LADD - the total and area         3. AQUIFER Laramie-Fox Hills NT         consisting of 800.52 acress.         4. EXISTING WIELLS - Arc there ary wells located on the cellmed and described overlying land? Yes_ No_K_         4. EXISTING WIELLS - Arc there ary wells located on the cellmed and described overlying land?         described land area daimed by the applicant in item 88 below. Place section on the equiler underlying the described land area daimed by the applicant in item 88 below. Place section on the equiler underlying the annual acre-feet, excluding annual acre-feet annualy         Maximum allowable acress, ancessive weak, section and area daimed and described and described on the annual acres feet annualy         Maximum allowable acress, ancessive weak, section and area daimed and described in the relation of the applicant in tem 80 below.         Maximum allowable accomption of Antended binetited usees of the ground weith' to be withor in the aqp	instructions on the reverse of this form. This former than a new rocated within a Designated Gro	und Water Basin, Review the
1. APPLICANT INFORMATION         Name of Applicant         Applicant Mailing Address         17480 Meridian Road, Elbert, CO 80106-8916         Applicant Mailing Address         elo Catorado Water Plans, P.O Box 1985, Elbert, CO 80106-8916         Applicant magnetic music microle ansa color)         agad sele-0000, Contact 300 646-4201         174-15-3562         2. AMOUNT OF OVERLYING LAND - the total and area cleimed and described ty the applicant in item #8 below, consisting of \$00.52 acress.         4. EXISTING WELLS - Are here any wells located on the overlying land area as an attachment to this application.         5. ANNUAL ANDUMT OF GROUND WATER - Dis withflown, for interded beneficial uses, from the aquifer underlying the described land area diamed by the applicant in them #8 below. Plaase specify one of the following ennual acre-feet         Maximum allowable	with a non-refundable \$60 filing fee. A separate form must be used for each orustical and submitted to	the Ground Water Commission
Name of Applicant       George F. McCune and Evelyn McCune         Applicant Mailing Address       17480 Meridian Road, Elbert, CO 80106-8916         eto Colorado Water Plane, P O Box 1985, Elbert, CO 80106-8916         eto Colorado Water Plane, P O Box 1985, Elbert, CO 80106-8916         2. AMOUNT OF OVEREVING LAND - the total and area [3. AQUIFER Lanamic-Fox Hills NT         contesting of 900.02 Actress.         4. EXISTING WELLS - Are there ainy wells located on the oxtering land described overlying land?         Yes, movide a complete list of all wells boated on the oxtering land described overlying land?         Yes, movide a complete list of all wells boated on the oxtering land described overlying land area as an attachment to this application.         S. ANNOLL ANNOUNT OF GROUND WATER - to be withdrawn, for fither/debenetical uses, from the aquifer underlying the annual acre-feet, excluding must acre-feet annualy	i i i i i i i i i i i i i i i i i i i	/pe or print in black ink.
George F. McCune and Evelyn McCune         Applicant Mailing Address         17480 Meridian Road, Elbert, CO 80106-8916         Co Colorado Water Plane, P O Box 1965, Elbert, CO 80106-8916         Applicant Transprote number include also code)         293 646-0000, Contact 303 8464-420         The P O Box 1965, Elbert, CO 80106         Applicant Transprote number include also code)         consisting of       900.62 across.         4. EXISTING WELLS - Are there any wells located on the codified and deacrobed overlying land?       Yes	1. APPLICANT INFORMATION	
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17460 Meridian Road, Elbert, CO 80108-8916         eto Colorado Weter Plana, P O Box 1955, Elbert, CO 80108         Applicant response number (include area docum)         393 848-0000       Contact 303 8464-201         119-19-25-25-2         2. AMOUNT OF OVERLYING LAND - the total and area daimed and deactibed by the applicant in tern #8 books.         3. EXISTING WELLS - Are fore any wells located on the overlying land area as an attachment to this application.         5. ANIOLAT. CANDOUNT OF CREDUND WATER - to De withdrawn, for infanded beneficial uses, from the applicat in tern #8 before. Planas as pool of the oblewing is and area as an attachment to this application.         6. ANIOLAT. CHECHCULD WATER - to De withdrawn, for infanded beneficial uses, from the applicat in tern #8 before. Planas as pool on of the following:         Maximum allowable	George F. McCune and Evelyn McCune	
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Contractor Veteor Paints, P.O. Box 1955, Elbert, CO 30106     PODECHT Dispectant Tatephone Number (include alias code)     PODECHT Tatephone Number (include alias code)     PODECHT Tatephone Number (include alias code)     PODECHT CF OVERLYING LAND - The oficial and sees     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant in term #8 below.     Active Contract 303 6484-2021     Light applicant interms #8 below.     Active Contract 303 6484-2021     Light applicant interms #8 below.     Active Contract 303 6484-2021     Light applicant interms applicant applicant applicant applicant applicant interms applicant interms applicant applicant applicant interms applicant interms applicant interms applicant applicant applicant interms applicant applicant interms applicant applicant applicant interms applicant applicant interms applicant applicant interms applicant applicant applicant interms applicant applicant applicant applicant appli	17480 Meridian Road, Elbert, CO 80106-8916	
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C. ANUAL ANOUNT OF GROUND WATER - to be withdrawn, for Intended beneficial uses, from the aquifer underlying the described land area claimed by the applicant in liters #8 below. Please specify one of the following:     Maximum allowable annual acre-feet, excluding acre-feet from that amount     G. USE CG GROUND WATER - description of intended beneficial uses of the ground water to be withdrawn from the aquifer instantiat, commercial, irrigation, argenetations, stock watering, recreational water feature ponds and plectarial habitat less than 1000     asses, for replacement of depletion's from the use of water instant application to axid see, for storage and relations publication to said see, for torage and relations publication or accurate scale map is provided which described and described by the application in the map is provided which describes an attended biomediate application of additional place of use.     FREQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall allocate ground water from the assulter on the basis of ownership of owaring induction due to the application of the overlying land area schering induction and to the application of scale as a claim (from fMC%-40), including a second to this described by the application or accurate scale map is provided which describes an attended defined application or the application or accurate scale map is provided which describes an attended from the application or accurate scale map is provided which describes and indescribed by the application in the asso of ownership of owaring land. For this reason, a Nontributary description of the overlying land area schering on the basis of ownership of owaring and for the opolation.     SIGRATURE OF APPLICANT - must be original alignative - The making of latee statements for ownership of owowable as an attachment to the applicatin and the externents herein	4. EXISTING WELLS - Are there any wells located on the alger	
Advected land area claimed by the applicant in item #8 below. Please specify one of the following:     Maximum allowable annual acre-feet	If yes, provide a complete list of all wells located on the question and described overlying land?	YesNo_X
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All water withdraws will be reused, searcessively used, leased, solid or effect from that amount     All water withdraws will be reused, searcessively used, leased, solid or effective disposed of for the following leaseficial uses: domestic,     industrial, commercial, irrigation, augmentations, stock watering, recreational water feature pounds and placetorial habitat leas than 1000     asses, for roptacement of depletion's from the use of water from other sources and for all other augmentation purposes     7. PLACE OF USE – of the ground water shall be considered to be that overlying lend area claimed and described by the application to said     tests, for roptacement of depletion's from the use of water from other sources and for all other augmentation purposes     7. PLACE OF USE – of the ground water shall be considered to be that overlying lend area claimed and described by the applicant in     team #6 below, unless a legal description or accurate scale map is provided which describes an alternate/edditional place of use.     8. RECURRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall allocate ground water from the     Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim (form GWS-40), including a     description of the overlying land area subject to this determination, must be submitted as an attachment to the application.     9. SIGNATURE OF APPLICANT - must be original signature – The matching of false statements berein constitutes perjury in the     second degree, which is punishable as a less 1 misdomenanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements     berein, know the contents thereof, and state that they are true to my knowledge.     Signature		able annual acro foot another
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Basson, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. For this reason, a Nontributary     Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim (form GWS-48), including a     description of the overlying land area subject to this determination, must be submitted as an attachment to the application.      SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein constitutes perjury in the     second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements     herein, know the contents thereof, and state that they are true to my knowledge.      Signature Afford M.C. M. Date     Trans Number: 3628088 A     Trans Number: 3628088		
Ground Water Landownership Statement (form GWS-10 or Nontributary Ground Water Consent Claim (form GWS-48), including a description of the overlying land area subject to this determination, must be submitted as an attachment to the application. <b>9. SIGNATURE OF APPLICANT -</b> must be original signature – The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor punsuant to C.R.S. 24-4-104(13)(a). I have read the statements herein, know the contents thereof, and state that they are true to my knowledge.  Signature August M.C. (		
description of the overlying land area subject to this determination, must be submitted as an attachment to the application.         9. SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements herein, know the contents thereof, and state that they are true to my knowledge.         Signature       Signature of the contents thereof, and state that they are true to my knowledge.         Signature       Date         - print name and title       George F. McCune and Evelve McCune, Owners         Div       Co         9       CO         9       MD         9       MD         9       MD         9       MD         10       Check Amoder.         10       Check Amoder.         10       Check Amoder.         10       Check Amoder.         11       Total Trans Amt. \$240.00         12       CHECK         13       MD         14       Check Amoder.         15       Signature.         16       MD         17       Check Amoder.         16       Check Amoder.         17       C	Dervison, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overhing land a	For this reason a Manufacture
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herein, know the contents thereof, and state that they are true to my knowledge.         Signature       Signature         Base       Date         - print name and side       George F. McCune and Evelvn McCune, Owners         Trans Number: 3628088 A         FOR OFFICE USE ONLY         George F. McCune and Evelvn McCune, Owners         Date         Trans Number: 3628088 A         FOR OFFICE USE ONLY         Output: Trans Amt: \$240.00         CHECK Number: 3628088 A         Trans Number: 3628088 A         Trans Number: 3628088 A         OWD I BASIN MD         Div         OWD         BASIN         MD         Check Amount: \$240.00	SIGNATURE OF APPLICANT a must be orginal orginal orginal	
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Signature     Signature     Date       - print name and title     George F. McCune and Evelvn McCune, Owners       - print name and title     George F. McCune and Evelvn McCune, Owners       FOR OFFICE USE ONLY     State       9     COWDBASINMD       DIVCOWDBASINMD     Check Murber: 5240.00	nerein, know the contents thereof, and state that they are true to my knowledge.	lave read the statements
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Check Amount: 5240.005)		CHECK
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### THERE ARE NO WATER WELLS ON THE PROPERTY

LOCATION MAP from CDSS

#### RECEIVED

APR 1 7 2008

STATE ENGINEER

1.22

### COLORADO WATER PLANS Water Consultants

Colorado Ground Water Commission Division of Water Resources Department Of Natural Resources 1313 Sherman Street - Room 818 Denver, Colorado 80203

Re: Application for Determination of Water Right Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

**Client:** 

g=7 mc Come + Evelyn m. mg Que By:

Date: 4-14-08

**Colorado Water Plans LLC** Craig L. Curl Dr. W. Jerry Koch Lisa S. Weinstein, Bsq. #35681 Bv: Date: PO Box 1955 / Elizabeth / Colorado / 80107 303//646-9655

### DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT: George F. McCune and Evelyn McCune

BASIN: Kiowa-Bijou

COUNTY: El Paso

AQUIFER: Laramie-Fox Hille RECEIPT NO. 3628088A

NUMBER OF ACRES IN TRACT: 900.52 acres

GENERAL LOCATION: SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6<sup>th</sup> PM, S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6<sup>th</sup> PM.

### **AQUIFER DATA**

263.4 AFyr

AMOUNT AVAILABLE FOR APPROPRIATION: (195 1

RAPPROPRIATION: (195 feet SS)(900.52 Acres)(0.15 SY) = 26340 AF None

ANNUAL AMOUNT: 263.4 AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: N/A

OVERLAP AREA: N/A

ADJUSTMENTS:

AREA CHECKED: Sections 18, 19, and 30, T11S, R64W Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: N/A

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA: Nontributary

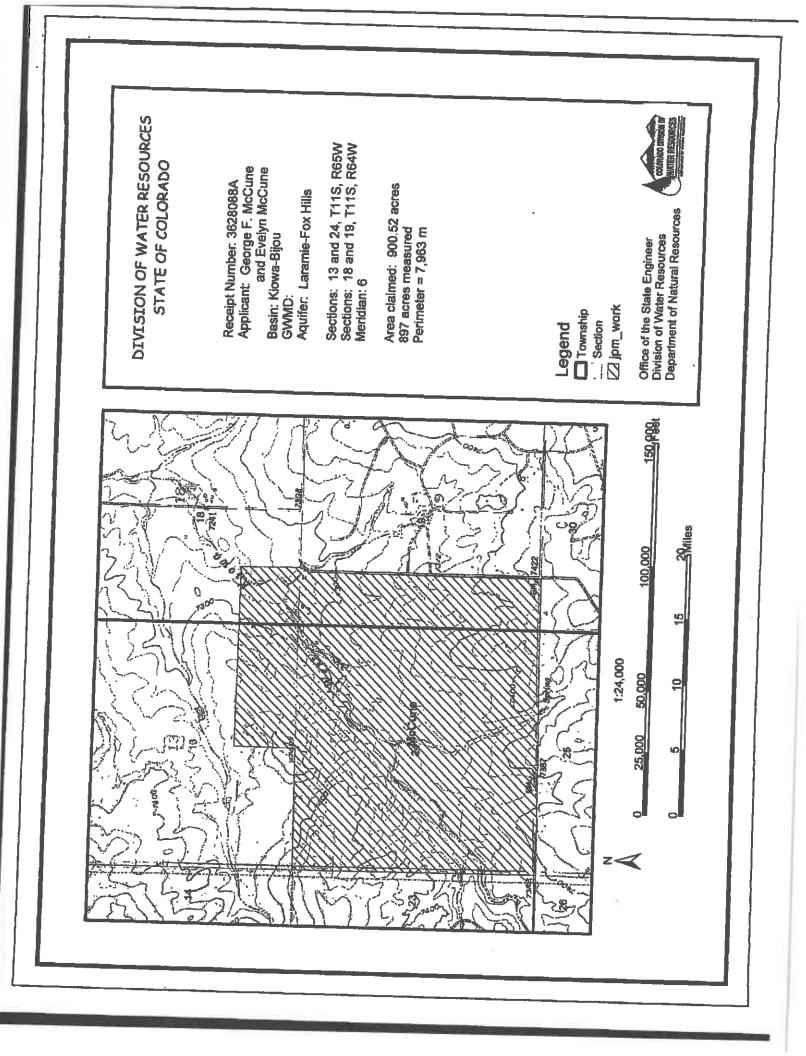
REPLACEMENT PLAN REQUIRED: Not Required

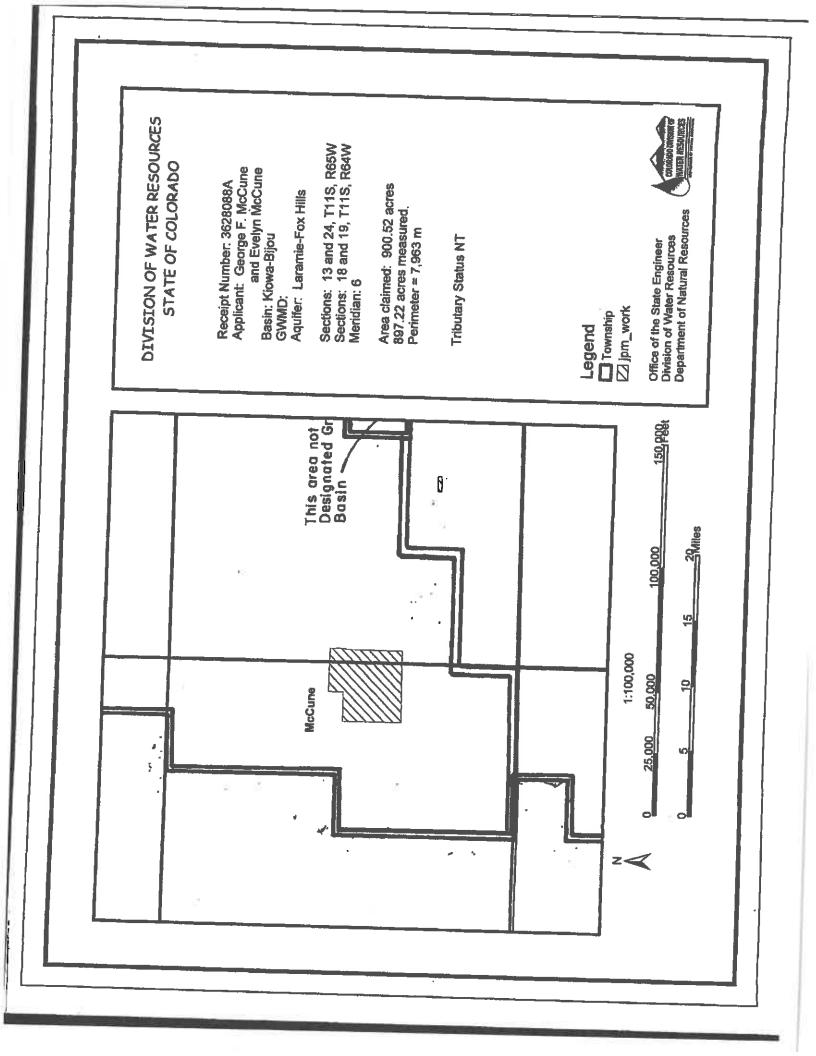
AQUIFER INTERVAL (CENTRAL DATA POINT): 2820 feet to 2940 feet below ground surface

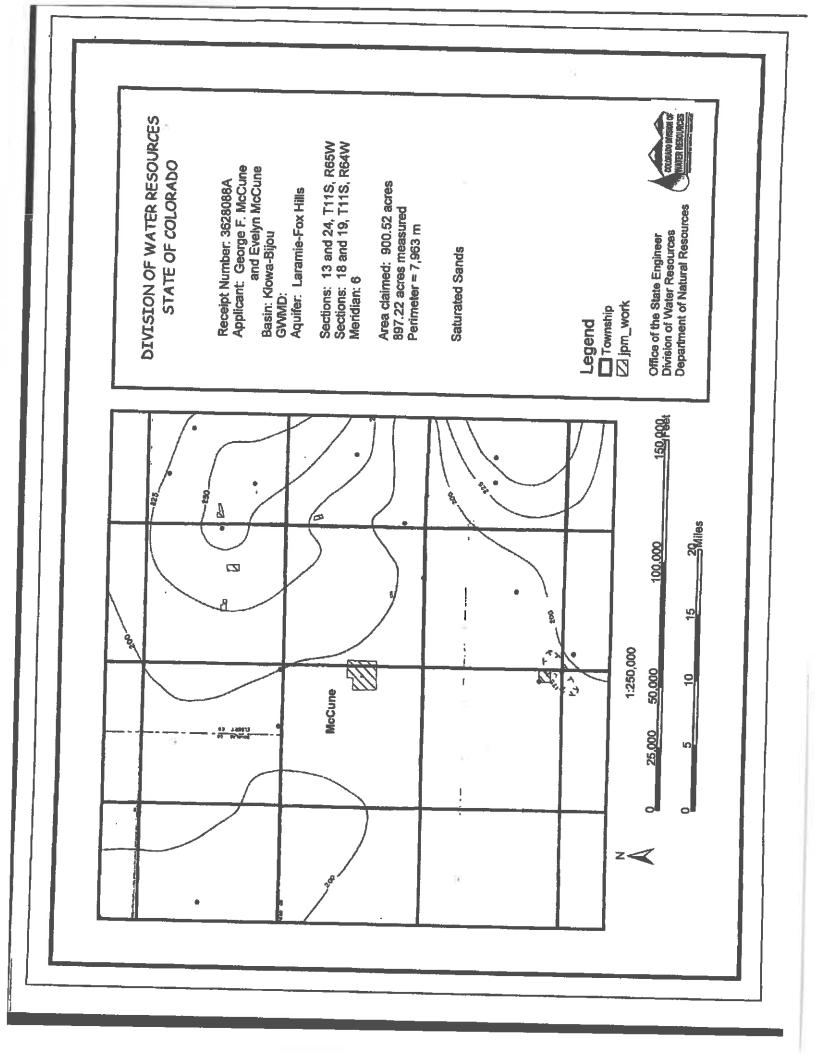
COMMENTS: The SS was considered 195 feet based on the SS map for the Laramie-Fox Hills aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff Reviewed by CBG

C:\Documents and Settings\jpm\My Documents\Water Right Aps\McCune\McCune Laramie Determ.doc









### DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF WATER RESOURCES

Bill Ritter, Jr. Governor

Harris D. Sherman Executive Director

Dick Wolfe, P.E. Director

May 1, 2008

George F. McCune and Evelyn McCune c/o Colorado Water Plans P.O. Box 1955 Elizabeth, CO 80107

RE: Applications for Determinations of Water Right to Appropriate Ground Water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson Aquifers Underlying a 900.52-Acre Tract,

Receipt Nos. 3628088A-D

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the legal notice to be published in the Ranchland News newspaper as required for the above described applications. If you find any errors or omissions in the notice, please contact this office by phone as soon as possible so that corrections may be made prior to publication. This office will bill you at a later time for the actual cost of this publication.

If you have any questions concerning these applications, please contact me at this office.

Sincerely,

In Minst

Justina Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosures: a/s cc: George and Evelyn McCune

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589 www.water.state.co.us OFFICE OF THE STATE ENGINEER Division of Water Resources – Department of Natural Resources 1313 Sherman St, Room 818, Denver, Colorado 80203 Phone 303-866-3581 – FAX 303-866-3589 – www.water.state.co.us

May 1, 2008

Ranchland News PO Box 307 Simla, CO 80835

### Applicant: George F. McCune and Evelyn McCune

### -EMAIL- DOCUMENT TRANSFER-

Please publish the enclosed legal notice in your editions of May 8, 2008 and May 15, 2008, or as close to these dates as possible. Please single-space all the enclosed material in your standard single column legal notice format. Font size shall not be less than six-point type and not more than nine-point in size.

Prior to publishing the legal notice, a proof copy must be submitted to this office for approval. The Ground Water Commission staff will inspect the proof copy and a reply as to its correctness will be made immediately by phone to your office. The proof copy must be directed to the attention of Justina Mickelson, Colorado Division of Water Resource at the above address, or by email justina.mickelson@state.co.us or fax 303-866-3589.

The state Controller and the State Purchasing Agent require that four copies of the billing and four copies of the proof of publication affidavit must be received in order to process billing invoices for legal notice publications. Two copies of the proof of publication must be notarized.

Since we must re-bill the applicant prior to the official action concerning their application request, please transmit the billing copies together with the proofs of publication as soon as possible.

Should you have any questions concerning publication of this notice, please contact this office.

Sincerely,

Justina, Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosure (a/s)

cc: Robert R. Loose, Commission Member

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### BEFORE THE COLORADO GROUND WATER COMMISSION

### KIOWA-BIJOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY

TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCune and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 11 and and control of the ground water in the above-described aquifers under this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The maximum allowable annual amount of ground water in each aquifer underlying the described property will be allocated.

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, the Colorado Ground Water Commission shall allocate ground water from the above-described aquifers based on ownership of the overlying land and an aquifer life of one hundred years. A preliminary evaluation of the applications by the Commission Staff finds the annual amount of water available for allocation from each of the described aquifers underlying the above-described property to be as follows: 263.4 acre-feet for the Laramie-Fox Hills, 398.0 final staff evaluation. The estimated available annual acre-feet allocation amount for each aquifer to indicated above may be increased or decreased by the Commission to conform to the actual aquifer characteristics, based upon site specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquifers underlying the above-described property to be as follows: nontributary for the Laramie-Fox Hills, nontributary for the Arapahoe, nontributary for the Denver, and not-nontributary (actual impact replacement) for the Dawson.

Upon Commission approval of these determinations of water right, well permits for wells to withdraw the allowed allocation from a specific aquifer shall be available upon application, subject to the conditions of the determination and the Designated Basin Rules and subject to approval by the Commission. Such wells must be completed in the specified aquifer and located on the above described 900.52 acre property. Well permits for wells to withdraw ground water from the Dawson aquifer would also be subject to the conditions of a replacement plan to be approved by the Commission.

Any person wishing to object to the approval of these determinations of water right must do so in writing, briefly stating the nature of the objection and indicating the above applicant, property description and the specific aquifers that are the subject of the objection. The objection must be accompanied by a \$10 per aquifer fee and must be received by the Commission Staff, Colorado Ground Water Commission, 818 Centennial Building, 1313 Sherman Street, Denver, Colorado 80203, by June 16, 2008.

### PUBLISHER'S AFFIDAVIT

## STATE OF COLORADO )

I, Susan Lister, do solemnly affirm that I am the Publisher of RANCHLAND NEWS; that the same is a weekly newspaper published at Simia, County of Elbert, State of Colorado, and has a general circulation therein; that said newspaper has been continuously and uninterruptedly published in said County of Elbert for a period of at least 52 consecutive weeks next prior to the first publication of the annexed notice, that said newspaper is entered in the post office at Calhan, Colorado as second class mail matter and that said newspaper is a newspaper within the meaning of the Act of the General Assembly of the State of Colorado, approved March 30, 1923, and entitled "Legal Notices and Adverlisements," with other Acts relating to the printing and publishing of legal notices and advertisements. That the annexed notice was published in the regular and entire issue of said newspaper, once each week for two successive weeks; that the first publication of said notice was in the Issue of said newspaper dated:

May 8 2008

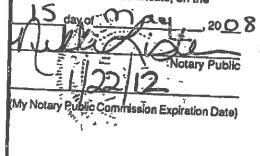
and the last publication of said notice was in the issue of said newspaper dated:

as 800

and that copies of each number of said paper in which said notice and/or list was published were delivered by carriers or transmitted by mail to each of the subscribers of said newspaper, Ranchland News, according to the accustomed mode of busidess in this office.

Publisher

The above certificate of publication was subscribed and affirmed to before me, a Notary Public, to be the identical person described in the above certificate, on the



71

**Determinations of Water** Right BEFORE THE COLORADO GROUND WATER COMMISSION KIOWA-BIJOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCune and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramio-Fox Hills, Atapahoe, Danver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2. of the SEI/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6ª PM. The applicant claims ownership of this land and control of the ground water in the above-described equifiers under this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: Somestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The maximum allowable ennual amount of ground water in each aquifer underlying the described property will be allocated.

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### RECEIVED

#### MAY 1 9 2008

WATER RESOURCES

### PUBLISHER'S AFFIDAVIT

## STATE OF COLORADO )

I, Susan Lister, do solemnly affirm that I am the Publisher of RANCHLAND NEWS; hat the same is a weekly newspaper pub-Ished at Simia, County of Elbert, State of Solorado, and has a general circulation herein; that said newspaper has been coninuously and uninterruptedly published in said County of Elbert for a period of at least 52 consecutive weeks next prior to the first pubication of the annexed notice, that said newspaper is entered in the post office at Cathan, Colorado as second class mail matter and that ald newspaper is a newspaper within the neaning of the Act of the General Assembly of the State of Colorado, approved March 30, 923, and entitled "Legal Notices and Advarisements," with other Acts relating to the printng and publishing of legal notices and adertisements. That the annexed notice was ublished in the regular and entire issue of aid newspaper, once each week for 100 uccessive weeks; that the first publication of aid notice was in the Issue of said newspaer dated:

May К 2008

nd the last publication of said notice was in te issue of said\_newspaper dated;

la 2008

nd that copies of each number of said paper i which said notice and/or list was published ere delivered by carriers or transmitted by iall to each of the subscribers of said newsaper, Ranchland News, according to the coustomed mode of business in this office.

Publisher

The above certificate of publication was ubscribed and affirmed to before me, a Nory Public, to be the identical person dewibed in the above certificate, on the

20<u>0</u>8 -0 Notary Public

ly Notary Public Commission Expiration Date)

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**Determinations of Water** 

Right BEFORE THE COLORADO GROUND WATER COMMISSION KIOWA-BLIOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY TAKE NOTICE that purplant to Section 37-90-107(7), C.R.S., George F. McCone and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Lammie-Fox Hills, Arapahoe, Denver, and Dewson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6ª PM. The applicant claims ownership of this land and control of the ground water in the above described aquifers under this property. The ground water allocations from these aquifars will be used on the described property for the following beneficial uses: domestic, industrial, commercial, inigation, augmentation, stock watering, recreational water festure ponds and placatorial habitat less than 1000 square fact and wildlife, replacement and all other augmentation purposes. The maximum allowable annual amount of ground water in each aquifer underlying the described property will be allocated

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First Publication May 8, 2008 Final Publication May 15, 2008 In Ranchland News

Legal No. 12,936

S Which is a marked

#### RECEIVED

### MAY 1 9 2008

WATER RESOURCES

8/2008 3 NUMBER 3 RECEIVED	MAY 1 9 2008 WATER RESOURCES STATE EXGNUEER	
5/ B DATE		Amount 43.97 30.71 74.68
Invoice		Units 89.000 89.000
	192	Total
News Avenue, PO Box 307 80835	Colorado Ground Water Commission 1313 Sherman Street, Rocan 818 Denver CO 80203	Description Iegal - 11.5 Picas McCune, legal 12,936 Legal - Rerun - 11.5 Picas McCune, legal 12,936 ******* Total
Ranchland News 115 Sioux Avenue, Simla CO 80835	Colorado G 1313 Sherm Denver CO	Date 05/08/2008 05/15/2008

### RECEIVED

JUN 0 2 2008



### DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

WATER RESOURCES STATE ENGINEER COLO.

Bill Ritter, Jr. Governor Harris D. Sherman Executive Director

Dick Wolfe, P.E. Director

George F. McCune and Evelyn McCune c/o Colorado Water Plans P.O. Box 1955 Elizabeth, CO 80107

Invoice No. 08-PUB-220

Pursuant to Section 37-90-116, C.R.S., applicants are required to pay for the actual expense of publication for determinations of water right, well permit and change of water right applications.

INVOICE

May 21, 2008

Your application for determinations of water right to appropriate ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers was published in the Ranchland News newspaper on May 8 and May 15, 2008.

The following cost was incurred:

- 1. Actual cost of publication: \$74.68
- 2. Additional fees: лопе

#### PAYABLE TO: DIVISION OF WATER RESOURCES \$74.68

Your application cannot be considered for approval until the charges are paid. Please return the enclosed copy of this invoice with remittance within thirty (30) days.

(A copy of the publication affidavit is enclosed for your records.)

Sincerely,

tu P. Milo

Justina P. Mickelson Physical Science Researcher Scientist **Designated Basins Branch** 

Trans Number: 3629687 6/2/2008 9:32:21 AM Debble Gonzales (20) Total Trans Amt: \$231,58 CHECK Check Number: 9784 Check Amount: \$231.58

Enclosures (a/s)

Office of the State Engineer 1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589 www.water.state.co.us



# DEPARTMENT OF NATURAL RESOURCES

June 27, 2008

Bill Ritter, Jr. Governor Harris D. Shenman Executive Director Dick Wolfe, P.E. Director

George F. and Evelyn McCune 17480 Meridian Road Elbert, CO 80106-8916

### **RE: Determination of Water Right**

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1689-BD, for the allocation of ground water in the Laramie-Fox Hils aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely,

Justino P. Micas

Justina P. Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosures: a/s

Office of the State Engineer 1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589 www.water.state.co.us .

Colorado Department of Natural Resources	a and the second se
Kejeralo Division of Weier/Resource	Colorado.gov   Contact Us
Colorado's Well Permit Search	
THIS PAGE IS NOT THE ACTUAL PERMIT The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. (Foll Disclaimer)	
Permit Issued: Completion Status Unknown         Receipt:       3628088B       Division:       1         Permit #:       1690-BD -       Water District:       1         Well Name / #:       County:       EL PASO         Designated Basin:       KIOWA-BIJOU       Management District:       FL PASO         WDID:       Value Status Unknown       Management District:       FL PASO	
[-] Imaged Documents - Permit File	
Document Name         Date Imaged Annotated           Findings & Order for Determination         05/21/2009         No	
[-] Applicant/Contact	
Applicant/Contact Name         Mailing Address         City/State/Zip           MCCUNE GEORGE F & EVELYN         17480 MERIDIAN RD         ELBERT, CO 80106-8916	
[-] Location Information Approved Well Location:	
Q40 Q160 Section Township Range PM Footage from Section Lines 24 11.05 65.0W Stath	
Northing (UTM y): 4325550.5 Easting (UTM x): 533176.3 Location Accuracy: Spotted from quarters	
Subdivision Name	
Filing Block Lot	
Parcel ID: Acres in Tract: 900.52	
[-] Permit Details	
Date Issued: 06/25/2008 Date Expires:	
Uses (See <u>Imaged Documents</u> for more infomation) General Use(s): COMMERCIAL Aquifer(s): ARAPAHOE DOMESTIC	
Special Use:	
Area which may be imigated: Annual volume of appropriation:	
Statute: Cross Reference Permit(s): Permit Number Receipt	
Cross Reference Permit(s): Permit Number Receipt Comments: DETER ISSUED	
[-] Construction/Usage Details	
Well Construction Date:     Pump Installation Date:       Well Plugged:     1st Beneficial Use:	
Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate	
[-] Application/Permit History	
Permit Issued 06/25/2008	
Application Received 04/17/2008	
Disclaimer	
*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.	
This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate. The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).	
Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn	

more about well permitting In Colorado, please visit <u>DWR's Well Permitting Page</u>. If you have any questions about this well permit file, please contact the <u>DWR Ground Water Information Desk</u>.

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#### COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

IN THE MATTER OF AN APPLICATION FOR DETERMINATION OF WATER RIGHT TO ALLOW THE WITHDRAWAL OF GROUND WATER IN THE KIOWA-BIJOU DESIGNATED GROUND WATER BASIN

APPLICANT:	GEORGE F. M	MCCUNE AND EVELYN MCCUNE	Server Contraction		<u>_</u>
AQUIFER:	ARAPAHOE		Stender, State	-	14
DETERMINAT	FION NO.:	1690-BD			li eg
			, sam	÷.	ð

J.

In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Arapahoe Aquifer.

#### FINDINGS

- 1. The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
- 2. The applicant requests a determination of rights to designated ground water in the Arapahoe Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
- 3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
- 4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter "Commission") has jurisdiction.
- 5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
- 6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 39800 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

Applicant: George F. McCune and Evelyn McCune Aquifer: Arapahoe Determination No.: 1690-BD

a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 17 percent.

b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 260 feet.

- 7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
- 8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 398 acre-feet.
- 9. A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
- 10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
- 11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
- 12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural steam or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
- 13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
- 14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

Applicant: George F. McCune and Evelyn McCune Aquifer: Arapahoe Determination No.: 1690-BD

- 15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.
- 16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
- 17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aquifer.

#### ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Arapahoe Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

- 18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 398 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal,
- 19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
- 20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
- 21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
- 22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area.

Applicant: George F. McCune and Evelyn McCune Aquifer: Arapahoe Determination No.: 1690-BD

- 23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county in which the claimed overlying land is located notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
- 24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:

a. The wells shall be located on the above described 900.52 acre overlying land area.

b. The wells must be constructed to withdraw water from only the Arapahoe Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.

c. The entire depth of each well must be geophysically logged <u>prior</u> to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.

d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.

e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.

f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.

25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Dated this 25th day of June, 2008.

1 Week

Dick Wolfe, P.E Executive Director Colorado Ground Water Commission

Vinni /s By:\_ Keith Vander Horst, P.E. J Jefe Water Resource Engineer

Prepared by: JPM

Page 5

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92GWS 1 03/2005

EXHIBIT A

1690-BD

Page 1 of 2

# STATE OF COLORADO OFFICE OF THE STATE ENGINEER DIVISION OF WATER RESOURCES 1313 Sherman St. Room 821 Denver, CO 80203 (303) 866-3581 Fax (303) 866-3589

Received

APR 1 7 2008

WATER RESOURCES STATE ENGINEER COLO.

# NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT

# I (We) George F. NcCune and Evelyn McCune

(Name(s))

claim and say that I (we) am (are) the owner(s) of the following described property consisting of <u>900.52</u> acres in the County of <u>EI Paso</u>.

(Insert the property legal description)

SW/4SW/4 Section 18 and W/2 of the W/2 Section19, T11S, R64W, and S/2SE/4 Section 13

and All of Section 24, T11S R65W, 6th PM, El Paso County, 900.52 acres

See attached Quitclaim Deed dated November 29, 1976, and map.

and, that the ground water sought to be withdrawn from the <u>Arapahoe</u> aquifer underlying the above-described land has not been conveyed or reserved to another, nor has consent been given to its withdrawal by another.

Further, I (we) claim and say that I (we) have read the statements made herein; know the contents hereof; and that the same are true to my (our) knowledge.

Signature

Glorge 7 Mc Cum & Date Eulyn M. McCum

Signature

INSTRUCTIONS:

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word processing means. See additional information on the reverse side.

EXHIBIT A 21 **1** 1.5 1690-BD 18 P 20 Page 2 of 2 RECEIVED Beet Copy Available QUITCLAIM DEED APR 1 7 2008 RAY C. McCLINE and GRETA C. McCLINE, as huband and wife, of the County WATAN ALE OUTPORT of El Paso and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLO grad and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. 5.2 MCCLINE and EVELYN M. MCCLINE, huntiand and wife, in joint tenancy, of the County of Elbert and State of Calaratio, a one-balf interast in and to all minorals underlying the following described property, including oil and gas, said property lying and being in the . . . County of El Paro and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eliven, Range Shity-four; the West half of the West half of Section Nineteen, Township Eleven, Barge Shity-four; the South half of the Southeast Quarter of Saction Thisteen, Township Eleven, Range Shity-five; All of Section Twenty-fair, Township Eleven, Ringe Shity-five, castifining in all Nine hundred and (Nity-two bundredths (900:52) acres, more or less, according to Government with all its appartenances No DATED and signed this 22 day of Nou. Consideration ...... STATE DOCUMENTS NOV 2 9 1986 nme. · FEE S... STATE OF COLORADO COUNTY OF EL PASO day of le u i 

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1.41	COLORADO GROUND WATER COMMISSION
	DIVISION OF WATER RESOURCES
	DEPARTMENT OF NATURAL RESOURCES
	1313 Sherman St, Room 818, Denver, CO 80203

# APPLICATION FOR DETERMINATION OF WATER RIGHT WITHIN A DESIGNATED GROUND WATER BASIN PURSUANT TO SECTION 37-90-107(7), C.R.S.

PURSUANT TO SECTION 37-90-107(7), C.R.S. Please note: This application may only be used to apply for a determination of rights to ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer underlying land areas located within a Designated Ground Water Basin. Review the instructions on the reverse of this form. This form must be completed, signed, dated and submitted to the Ground Water Commission with a non-refundable \$60 filing fee. A separate form must be used for each aquifer determination. Type or print in black ink.

1. APPLICANT INFORMATION	
Name of Applicant	
George F. McCune and Evelyn McCune	
Applicant Mailing Address	
17480 Meridian Road, Elbert, CO 80106-8916	
c/o Colorado Water Plans, P O Box 1955, Elbert, CO 80106	
Applicant Telephone Number (include area code)	
- 303 648-9090 Contact 303 646-4201 719- 495- 2562	
2. AMOUNT OF OVERLYING LAND - the total and area 3. AQUIFER Arapahoe NT	
claimed and described by the applicant in Item #8 below.	
consisting of 900.52 acres.	
4. EXISTING WELLS - Are there any wells located on the claimed and described overlying land? Y	esNo_X
If yes, provide a complete list of all wells located on the overlying land area as an attachment to this a	pplication.
5. ANNUAL AMOUNT OF GROUND WATER ~ to be withdrawn, for intended beneficial uses, from	The devices underfailers the
described land area claimed by the applicant in Item #8 below. Please specify one of the following:	
	ble annual acre-feet, excluding
6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be with	drawn from the aquiter
All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following b	eneficial uses: demestic,
industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscate	rial habitat less than 1000
square feet and wildlife. The water will be produced for immediate application to said uses, for storage and so uses, for replacement of depletion's from the use of water from other sources and for all other augmentation p	ibsequent application to said
and so representation a reflection a transfer as or writer from order sources and lot, an other stational b	arposes
7. PLACE OF USE - of the ground water shall be considered to be that overlying land area claimed and	d december of her the second second
Item #8 below, unless a legal description or accurate scale map is provided which describes an alterna	d described by the applicant in
8. REQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall alic	cate ground water from the
Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. F Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim	or this reason, a Nontributary
description of the overlying land area subject to this determination, must be submitted as an attachment	(form GvvS-46), including a
9. SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein	constitutes perjury in the
second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I h	ave read the statements
herein, know the contents thereof, and state that they are true to my knowledge.	
Signature George 7 MC Curl of Evelyn m. mc Curre Date april	14 2008
- print name and title George F. McCune and Evelyn McCune, Owners	
	Trans Number: 3628088 K
FOR OFFICE USE ONLY	W11/2000 1:54:24 FM
	Geoff Devis (21) Total Trans Amt: \$240.00
0 1 7	CHECK
DIV_8_COWD_L_BASIN 2_MD	Check Number: 0724
	CHECK AMOUNT: \$220.00

RECEIVED

APR 1 7 2008



# **COLORADO** WATER PLANS

# Water Consultants

Colorado Ground Water Commission Division of Water Resources Department Of Natural Resources 1313 Sherman Street - Room 818 Denver, Colorado 80203

Re: Application for Determination of Water Right Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

**Client:** 

ange 7 Mc Come + Earlyn M. Ing Come By:

Date: 4-14-08

Colorado Water Plans LLC Craig L. Curl Dr. W. Jerry Koch Lisa S. Weinstein, Bsq. #35688

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P.O. Box 1955 / Elizabeth / Colorado / 80107 Office: 303/646-3895 Fax: 303/646-9655

REPETER

2008

### DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT: George F. McCune and Evelyn McCune

BASIN: Kiowa-Bijou

COUNTY: El Paso

AQUIFER: Arapahoe RECEIPT NO. 36280888

NUMBER OF ACRES IN TRACT: 900.52 acres

GENERAL LOCATION: SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6<sup>th</sup> PM, S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6<sup>th</sup> PM.

### **AQUIFER DATA**

AMOUNT AVAILABLE FOR APPROPRIATION: (260 feet SS)(900.52 Acres)(0.17 SY) = 39803 AF 398.0 AFyr

ADJUSTMENTS: None

ANNUAL AMOUNT: 398.0 AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: N/A

OVERLAP AREA: N/A

AREA CHECKED: Sections 18, 19, and 30, T11S, R64W Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: N/A

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA: Nontributary

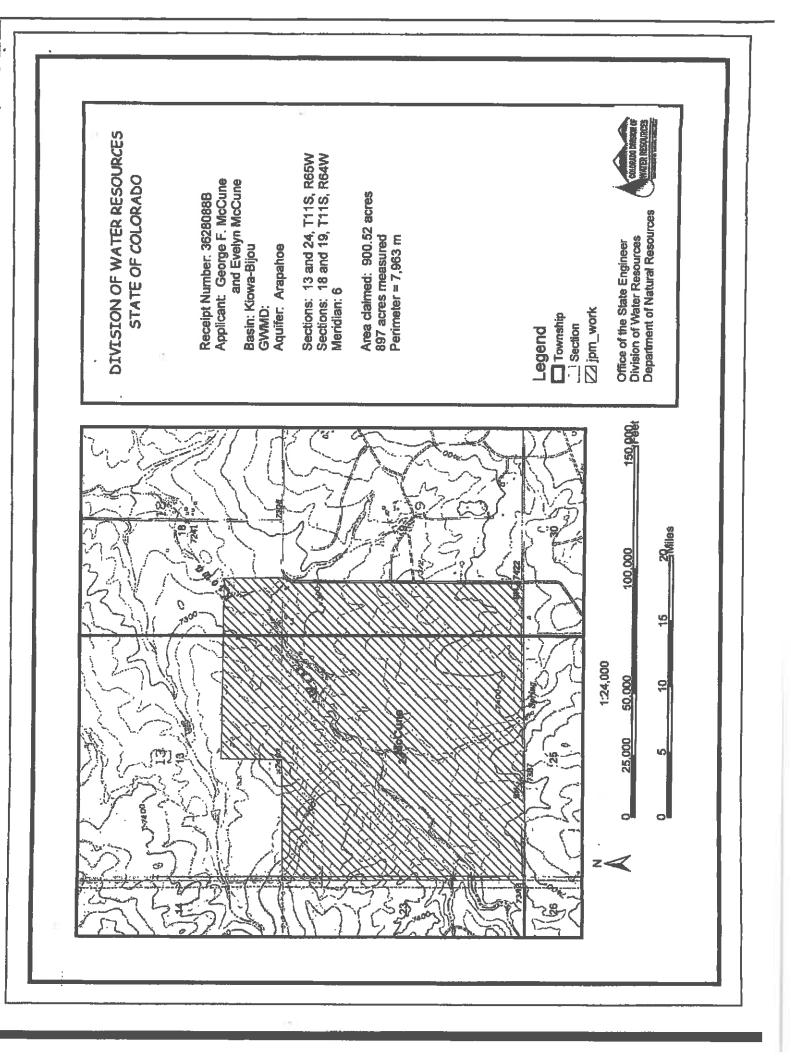
REPLACEMENT PLAN REQUIRED: Not Required

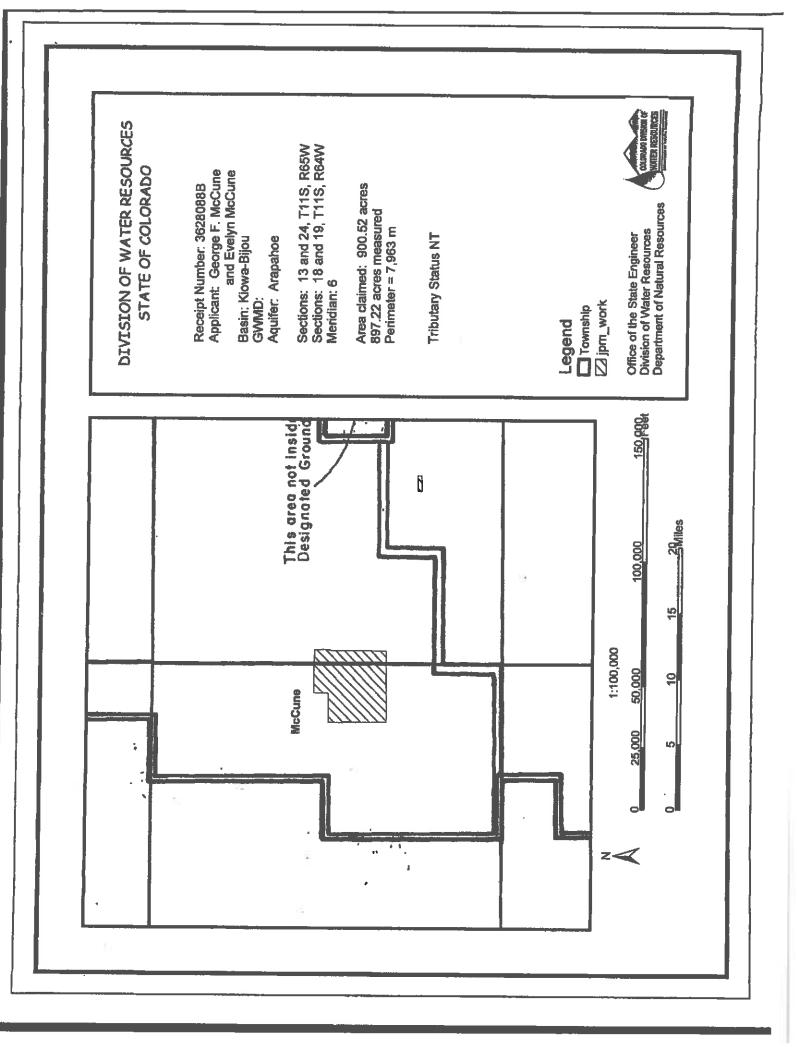
AQUIFER INTERVAL (CENTRAL DATA POINT): 1810 feet to 2310 feet below ground surface

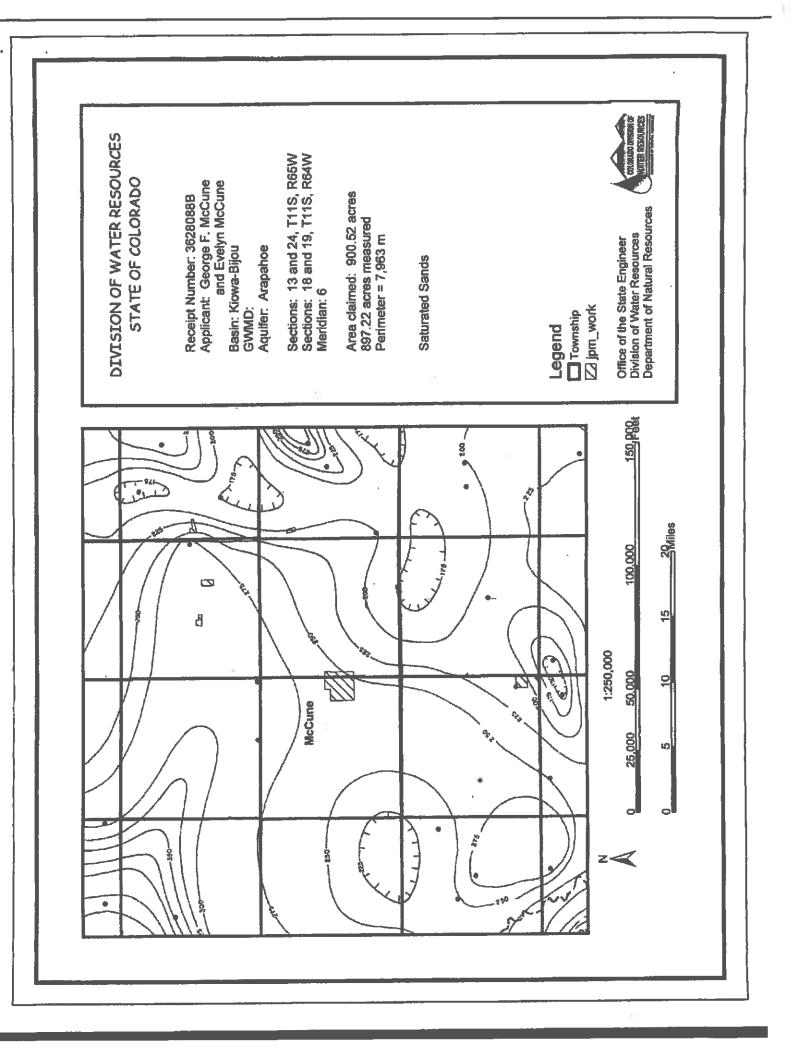
COMMENTS: The SS was considered 260 feet based on the SS map for the Arapahoe aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff Reviewed by CBG

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# **DUBLISHER'S AFFIDAVIT**

# STATE OF COLORADO

I, Susan Lister, do solemnly affirm that I m the Publisher of RANCHLAND NEWS; tat the same is a weekly newspaper pubshed at Simla, County of Elbert, State of olorado, and has a general circulation verein; that said newspaper has been connuously and uninterruptedly published in said county of Elbert for a pariod of at least 52 onsecutive weeks next prior to the first pubsation of the annexed notice, that said newsaper is entered in the post office at Calhan, olorado as second class mail matter and that aid newspaper is a newspaper within the leaning of the Act of the General Assembly the State of Colorado, approved March 30, 923, and entitled "Legal Notices and Adversements," with other Acts relating to the printg and publishing of legal notices and adartisements. That the annexed notice was ublished in the regular and entire issue of ald newspaper, once each week for 100 scessive weeks; that the first publication of aid notice was in the issue of said newspaar dated:

may 8.2008

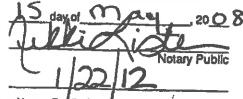
It the last publication of said notice was in e issue of said newspaper dated:

lay 2008 11

Id that copies of each number of said paper which said notice and/or list was published are delivered by carriers or transmitted by ail to each of the subscribers of said newsaper, Ranchland News, according to the xusterned mode of busiquess in this office.

0 Publisher

The above certificate of publication was ibscribed and affirmed to before me, a Nory Public, to be the identical person deribed in the above certificate, on the



y Notary Public Commission Expiration Date)

# Determinations of Water

Right

REFORE THE COLORADO GROUND WATER COMMENSION KIOWA-BLIOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCone and Rvelya McCane (harvisafler "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Lammie-Fox Hills, Arapahos, Denver, and Dawnon aquifiers underlying 900.52 same generally described as the SW1/4 of the SW1/4, Section 14, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Rings 64 West of the 6th PM and the S1/2 of the SE1/4, Section 15 and all of Section 24, Township 11 South, Range 65 West of the 6" PML licent obtate dwinenitip of this land and The are control of the ground water in the above describ squifter under this property. The ground water allocations from these squifters will be used on the described property for the following beneficial men domentic, industrial, commercial, internian, sture pouds and piscatorial habitat loss than 1000 square fost and wildlift, replacement and all other augmentation purposes. The territory allowable summil amount of ground water to each agilifer underlying the described property will be · hetroolle

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules; 2 CCR 410-1, the Colorado Ground Water Commission shall allocate ground water from the above-described. equifters based on ownership of the overlying land and an aquifer life of one hundred years. A preliminary evaluation of the applications by the Commission Staff finds the annual amount of water available, for allocation from each of the described equifers underlying the abovedescribed property to be as follows: 263.4 acrofeet for the Laramie-Fox Hills, 398.0 acre-feet for the Arapahoe, 528.2 acre-first for the Denver. and \$19.5 for the Dewson subject to final staff evaluation. The estimated available annual acro-foet allocation amount for each, equific indicated above may be increased or decreased by the Commission to conform to the actual equifier characteristics, based upon site specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquifers underlying the shows-described property to be as follows: nontributary for the Laramio-Fox Hills, nontributary for the Aragabos, nontributary for the Desver, and nonnoutributary (actual impact replacement) for the Desired.

Dawson. Upon Commission approvel of, these determinations of water right, well journing for wells to withdraw the allocation floor a specific aquifer shall be available upon application, subject to the conditions of the determinations and the Dasignative Basin Rules and subject to opproval by the Commission. Such wells sumt becompleted in the specified aquifer and located on the above described 900.52 are property. Well parants for wells to withdraw ground water from the Davison aquifar would also be athject to the contributes of a replacement plan to be approved by the Councilation.

Any person wishing to object to the approval of these determinations of water right must do so in writing, briefly anting the name of the objection and indicating the showe applicant, property descriptions and the specific aquifirm that are the subject of the objection. The objection, must be accompanied by a \$10 per aquifir for and must be received by the Commission Staff, Colorado [Ground Water Commission, \$18 Contenda] Building, 1313 Sherman Street, Deuver, Colorado \$0203, by June 16, 2008.

ł.

Final Publication May 8, 2008 Final Publication May 15, 2008 in Ranchland News Logal No. 12,936

# RECEIVED

# MAY 1 9 2008

WATTR PRODUCES

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# DEPARTMENT OF NATURAL RESOURCES

# DIVISION OF WATER RESOURCES

Bill Ritter, Jr. Governor

June 27, 2008

Harris D. Sherman , Executive Director Dick Wolfe, P.E. Director

George F. and Evelyn McCune 17480 Meridian Road Elbert, CO 80106-8916

# **RE: Determination of Water Right**

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1690-BD, for the allocation of ground water in the Arapahoe aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely,

Jutto P. Micol

Justina P. Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosures: a/s

Office of the State Engineer 1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589 www.water.state.co.us

தற்காக நாலாக நாலாகுக்கத்தாக கல்லார் பத்தத்தான. எத்து பார்க்கு அதுதிரங்கள் குதித்துக்கும் என்றது. திக்கு நிற்றது பிற்றது	Colorado.gov Contact Us
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THIS PAGE IS NOT THE ACTUAL PERMIT	
The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. (If ull Disclaring	12
Permit Issued; Completion Status Unknown Help Last Refresh: 12/6/2016 12:03:01	AM
Recelpt: 3628088C Division: 1	
Permit #:         1691-BD -         Water District:         1           Weil Name / #:         County:         EL PASO	
Well Name / #: County: EL PASO Designated Basin: KIOWA-BIJOU Management District:	
Case Number:	
WDID:	
[-] Imaged Documents - Permit File	
Document Name         Date Imaged Annotated           Findings & Order for Determination         05/21/2009         No	
[-] Applicant/Contact Applicant/Contact Name Mailing Address City/State/Zip	
MCCUNE GEORGE F & EVELYN 17490 MERIDIAN RD ELBERT, CO 80106-8916	
[-] Location Information	
Approved Well Location:	
Q40 Q160 Section Township Range PM Footage from Section Lines 24 11.0S 65.0W Sixth	
Northing (UTM y): 4325550.5 Easting (UTM x): 533176.3	
Location Accuracy: Spotted from quarters	
Subdivision Name	
Fling Block Lot	
Parcel TD: Acres in Tract: 900.52	
[-] Permit Details       Date Issued: 06/25/2008     Date Expires:	
Uses (See <u>Imaged Documents</u> for more Infomation)	
General Use(s): COMMERCIAL Aquifer(s): DENVER	
DOMESTIC Special Use:	
Area which may be irrigated:	
Annual volume of appropriation:	
Statute:	
Cross Reference Permit(s): Permit Number Receipt	
Comments: DETER ISSUED	
[-] Construction/Usage Details	
Well Construction Date: Pump Installation Date: Well Plugged: 1st Beneficial Use:	
Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate	
[-] Application/Permit History	
Permit Issued 06/25/2008	
Application Received 04/17/2008	
Disclaimer	
*The Information contained on this page is a summary of the permit file and may not reflect all	
details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.	
This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under	
which the well can operate. The complete well permit file should be viewed to obtain details on the allowed	
uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as	
pdf files).	
Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn	
not be specified on the weat permits weats may also be subject to relevant statutes) rules and decretas to relevant	

more about well permitting in Colorado, please visit <u>DWR's Well Permitting Page</u>. If you have any questions about this well permit file, please contact the <u>DWR Ground Water Information Desk</u>.

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# COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

IN THE MATTER OF AN APPLICATION FOR DETERMINATION OF WATER RIGHT TO ALLOW THE WITHDRAWAL OF GROUND WATER IN THE KIOWA-BIJOU DESIGNATED GROUND WATER BASIN

APPLICANT:	GEORGE F. N	ICCUNE AND EVELYN MCCUNE	And the second s
AQUIFER:	DENVER		lenne Allenne Allenne
DETERMINATI	ON NO.:	1691-BD	

In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Denver Aquifer.

### FINDINGS

- 1. The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
- 2. The applicant requests a determination of rights to designated ground water in the Denver Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
- 3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
- 4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter "Commission") has jurisdiction.
- 5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
- 6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 52800 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 17 percent.

b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 345 feet.

- 7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
- 8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 528 acre-feet.
- 9. A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
- 10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
- 11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
- 12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural steam or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
- 13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
- 14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

- 15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.
- 16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
- 17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aquifer.

### ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Denver Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

- 18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 528 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal amount of withdrawal.
- 19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
- 20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
- 21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
- 22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area.

- 23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county in which the claimed overlying land is located notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
- 24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:

a. The wells shall be located on the above described 900.52 acre overlying land area.

b. The wells must be constructed to withdraw water from only the Denver Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.

c. The entire depth of each well must be geophysically logged <u>prior</u> to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.

d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.

e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.

f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.

25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Page 4

Dated this <u>. 25 Th</u> day of <u>June</u> 2008.

1. Week

Dick Wolfe, P.E **Executive Director Colorado Ground Water Commission** 

N. Shanness 1.10. mil By:\_ Keith Vander Horst, PEE

Water Resource Engineer

Prepared by: JPM

Page 5

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EXHIBIT A

1691-BD

Page 1 of 2

# STATE OF COLORADO OFFICE OF THE STATE ENGINEER DIVISION OF WATER RESOURCES 1313 Sherman St. Room 821 Denver, CO 80203 (303) 866-3581 Fax (303) 866-3589

BECEIVED

APR 1 7 2008

WATTE RESOURCES COLO

# NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT

I (We) George F. McCune and Evelyn McCune

(Name(s))

claim and say that I (we) am (are) the owner(s) of the following described property consisting of 900.52 acres in the County of El Paso State of Colorado:

(Insert the property legal description)

SW/4SW/4 Section 18 and W/2 of the W/2 Section19, T11S, R64W, and S/2SE/4 Section 13

and All of Section 24, T11S R65W, 6th PM, El Paso County, 900.52 acres

See attached Quitclaim Deed dated November 29, 1976, and map.

and, that the ground water sought to be withdrawn from the Denver aquifer underlying the above-described land has not been conveyed or reserved to another, nor has consent been given to its withdrawal by another.

Further, I (we) claim and say that I (we) have read the statements made herein; know the contents hereof; and that the same are true to my (our) knowledge.

Signature

George 9 Mc Cune Date Evelyn Mr. Mc Cum

Signature

INSTRUCTIONS:

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word processing means. See additional information on the reverse side.

EXHIBIT A 1691-BD . Na sta 5 8 P R. Page 2 of 2 RECEIVED QUITCLAIM DEED Boot COPY Available APR 1 7 2008 **L**OOS RAY C. McCUNE and GRETA C. McCUNE, as huband and wife, of the County Wares Provide And County of El Paro and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLO good and valuable considuration, in hand paid, hereby sell and guit claim to GEORGE F. McCLINE and EVELYN M. McCUNE, husband and wife, in joint tenancy, of the County of Elbert and State of Colorado, a one-half interest in and to all minerals underlying the following described property, including oil and gas, said property lying and being in the County of El Paus and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Shity-four; the West half of the West half of Section Nineteen, Township Eleven, Range Shity-four; the South half of the Southeast Quarter of Section Thirteen, Township Eleven, Range Shity-five; All of Section Tweaty-four, Township Eleven, Range Shity-five, containing in all Nine hindred and filty-two hundredths (900:52) acres, more or less, according to Government Sections. with all its applatenances. Nø DATED and signed this 22 day of Nou. Consideration STATE DOCU NOV 2 9 1926 FEE & Dome STATE OF COLORADO. ) COUNTY OF EL PASO The foregoing instrument was acknowledged before me this 2) day of )ov: . × e ĝ . \$

# DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 Sherman St, Room 818, Denver, CO 80203 APPLICATION FOR DETERMINATION OF WATER RIGHT

COLORADO GROUND WATER COMMISSION

1.

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# APPLICATION FOR DETERMINATION OF WATER RIGHT WITHIN A DESIGNATED GROUND WATER BASIN PURSUANT TO SECTION 37-90-107(7), C.R.S.

Please note: This application may only be used to apply for a determination of rights to ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer underlying land areas located within a Designated Ground Water Basin. Review the instructions on the reverse of this form. This form must be completed, signed, dated and submitted to the Ground Water Commission with a non-refundable \$60 filing fee. A separate form must be used for each aquifer determination. Type or print in black ink.

1. APPLICANT INFORMATION
Name of Applicant
George F. McCune and Evelyn McCune
Applicant Mailing Address
17480 Meridian Road, Elbert, CO 80106-8916 c/o Colorado Water Plans, P O Box 1955, Elbert, CO 80106
Applicant Lelephone Number (include area code)
-303 648-9090- Contact 303 646-4201 719- 495-2562
2. AMOUNT OF OVERLYING LAND - the total and area claimed and described by the applicant in Item #8 below, consisting of 900.52 acres.
EXISTING WELLS – Are there any wells located on the claimed and described overlying land? Yes No _X
<ol> <li>ANNUAL AMOUNT OF GROUND WATER – to be withdrawn, for intended beneficial uses, from the aquifer underlying the described land area claimed by the applicant in Item #8 below. Please specify one of the following:</li> </ol>
Maximum allowable annual acre-feet annually Maximum allowable annual acre-feet, excluding acre-feet from that amount
6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be withdrawn from the aquifer
All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following beneficial uses: domestic,
industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife. The water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for replacement of depletion's from the use of water from other sources and for all other augmentation purposes
7. PLACE OF USE - of the ground water shall be considered to be that overlying land area claimed and described by the applicant in Item #6 below, unless a legal description or accurate scale map is provided which describes an alternate/additional place of use.
8. REQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall allocate ground water from the
Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. For this reason, a Nontributary Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim (form GWS-48), including a description of the overlying land area subject to this determination, must be submitted as an attachment to the application.
9. SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein constitutes perjury in the
second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements therein, know the contents thereof, and state that they are true to my knowledge.
Signature George 7 Ma Cume Date
Endra The Shall
- print name and title George F. McCune and Evelyn McCune, Owners
4/772008 1:34/24 01
FOR OFFICE USE ONLY Geoff Devis (21) Total Trans Amt: \$240.00
DIVCOWDMD

# RECEIVED

APR 1 7 2008

WATER RESOURCES STATE ENGINEER COLO.

# **COLORADO** WATER PLANS

# Water Consultants

Colorado Ground Water Commission Division of Water Resources Department Of Natural Resources 1313 Sherman Street - Room 818 Denver, Colorado 80203

Re: Application for Determination of Water Right Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

**Client:** Floring=7 Mc Come + Evelyn M. Mc Que By:

Date: 4-14-08

Colorado Water Plans LLC Craig L. Curl Dr. W. Jerry Koch Lisa S. Weinsteiti, Jsq. #35688

Date:

P.O. Box 1955 / Elizabeth / Colorado / 80107 Office: 303/646-3895 Fax: 303/646-9655

RECEIVED

PR 1 7 2008

### DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT: George F. McCune and Evelyn McCune

BASIN: Kiowa-Bijou

COUNTY: El Paso

AQUIFER: Denver RECEIPT NO. 3628088C

NUMBER OF ACRES IN TRACT: 900.52 acres

GENERAL LOCATION: SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6<sup>th</sup> PM, S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6<sup>th</sup> PM.

### **AQUIFER DATA**

AMOUNT AVAILABLE FOR APPROPRIATION: (345 feet SS)(900.52 Acres)(0.17 SY) = 52816 AF 528.2 AFyr

ADJUSTMENTS: None

ANNUAL AMOUNT: 528.2 AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: N/A

OVERLAP AREA: N/A

AREA CHECKED: Sections 18, 19, and 30, T11S, R64W Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: N/A

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA: Nontributary

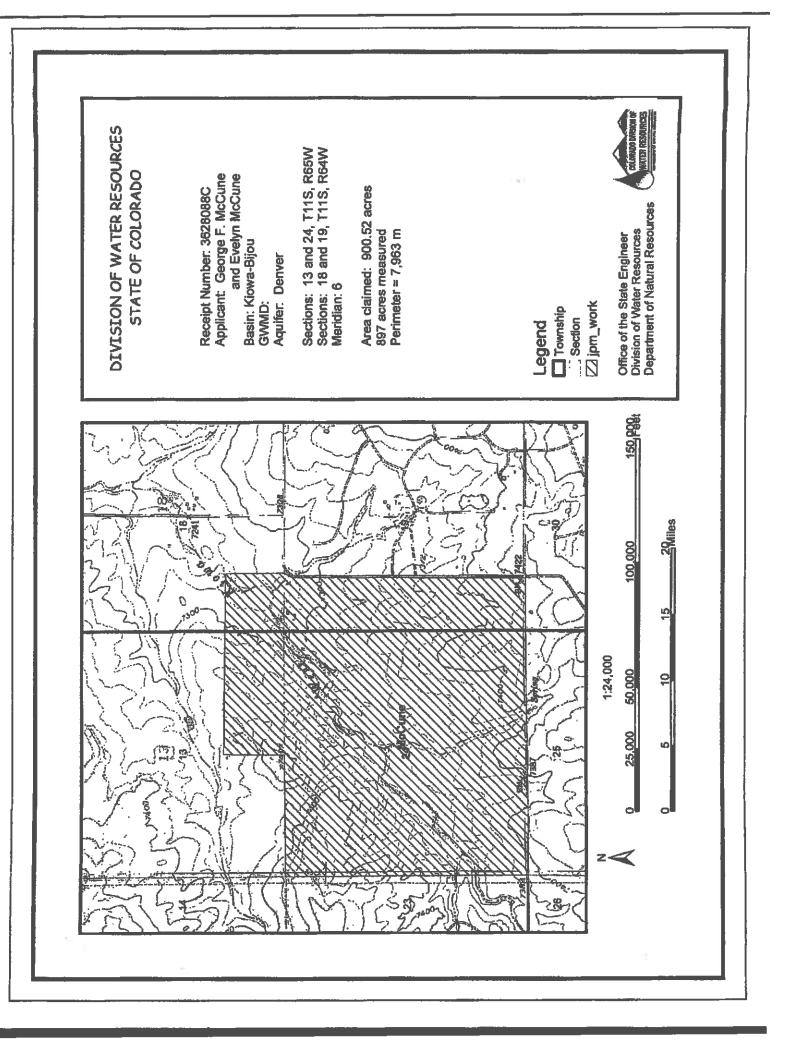
REPLACEMENT PLAN REQUIRED: Not Required

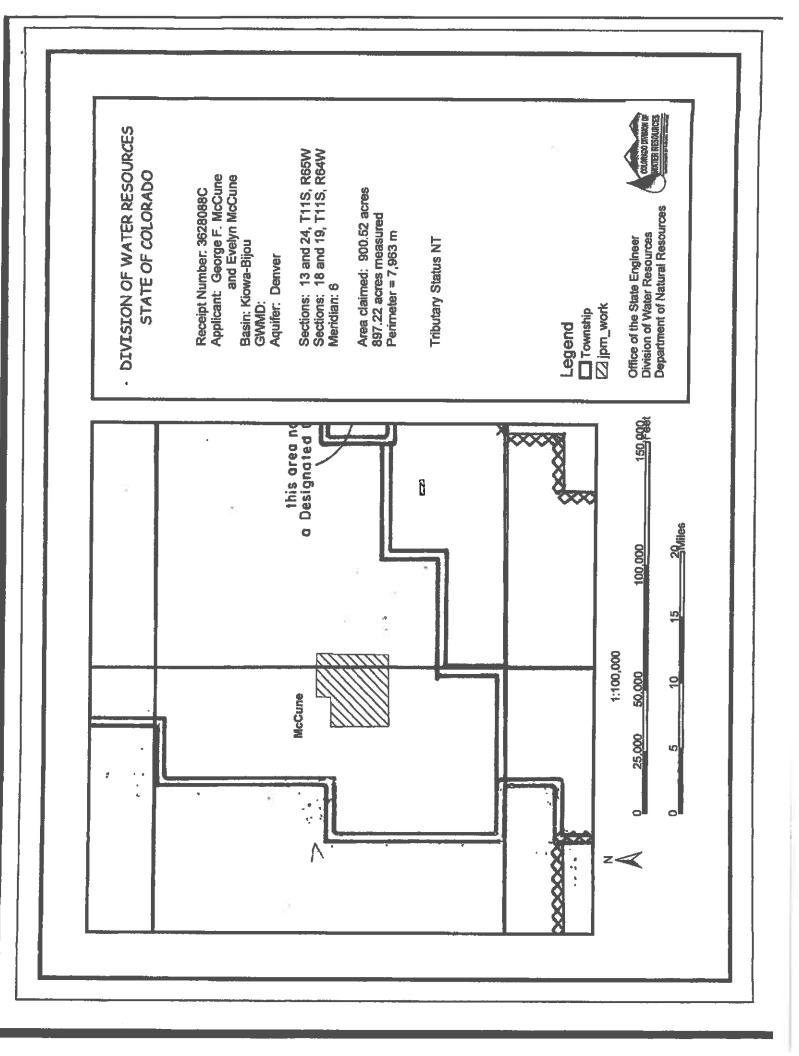
AQUIFER INTERVAL (CENTRAL DATA POINT): 970 feet to 1770 feet below ground surface

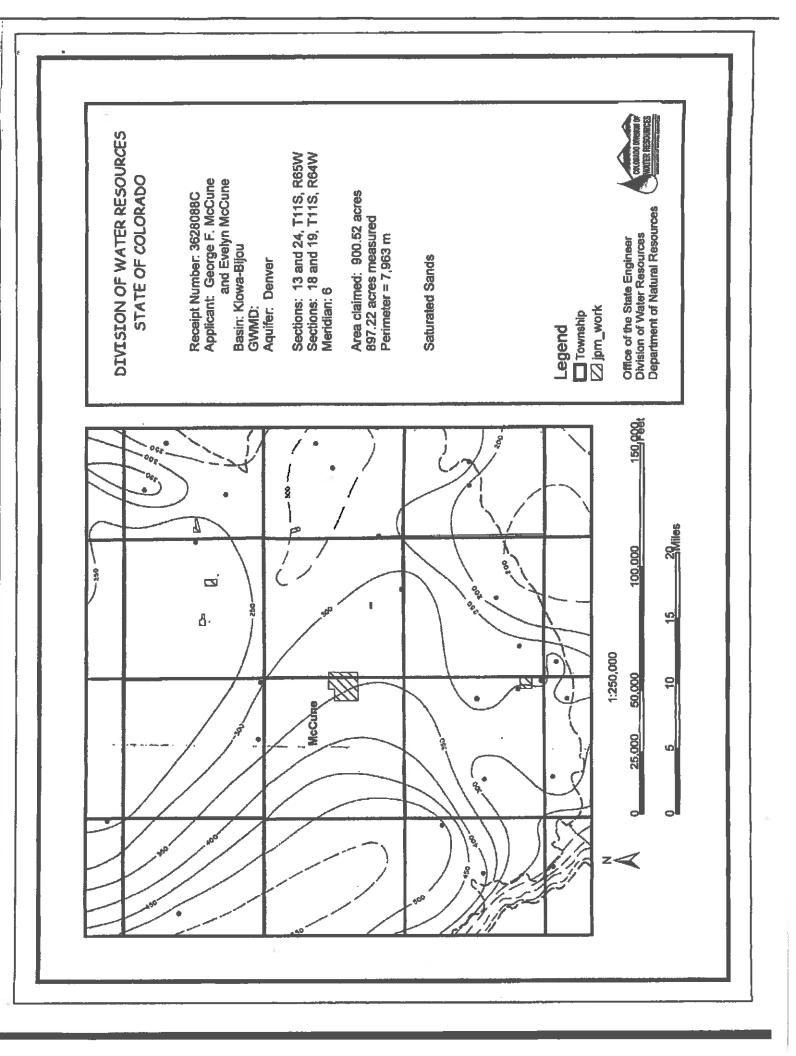
COMMENTS: The SS was considered 345 feet based on the SS map for the Denver aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff Reviewed by COC

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# **PUBLISHER'S AFFIDAVIT**

# COUNTY OF ELBERT

I, Susan Lister, do solemnly affirm that I m the Publisher of RANCHLAND NEWS; at the same is a weekly newspaper pubshed at Simia, County of Elbert, State of clorado, and has a general circulation terein; that said newspaper has been connuously and uninterruptedly published in said ounty of Elbert for a period of at least 52 onsecutive weeks next prior to the first pubcation of the annexed notice, that said newsaper is entered in the post office at Calhan, olorado as second class mall matter and that aid newspaper is a newspaper within the leaning of the Act of the General Assembly I the State of Colorado, approved March 30. 923, and entitled "Legal Notices and Adversements," with other Acts relating to the printg and publishing of legal notices and adartisements. That the annexed notice was blished in the regular and entire issue of aid newspaper, once each week for two iccessive weeks; that the first publication of aid notice was in the issue of said newspaer dated:

May 8 2008

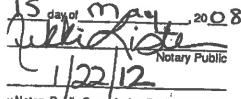
to the last publication of said notice was in e issue of said.newspaper dated;

lay 2008

Ind that copies of each number of said paper which said notice and/or list was published are delivered by carriers or transmitted by all to each of the subscribers of said newssper, Ranchland News, according to the scustoyned mode of busigess in this office.

1 ale 3 Publisher

The above certificate of publication was bscribed and affirmed to before me, a Nory Public, to be the identical person deribed in the above certificate, on the



y Notary Public Commission Expiration Date)

**Determinations of Water** . . . Right BEFORE THE COLORADO GROUND WATER COMMESSION KIOWA-BUOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY TAKE NOTICE that , purposet , to Socia 37-90-107(7), C.R.S., George F. McCune and Evelyn McCure (hereinsther "applican") have applied for determinations of water right to allow the withdrawal of designated ground water from the Lammie-Fox Hills, Arapalne, Denver, and Dawnoi squiftre underlying 900.52 sures particully described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SEL/4, Section 15 and all of Section 24, Township 11 South, Range 65 West of the 6" PM. The applicant chains ownership of this land and control of the ground water in the above described. aquifies under this property. The ground water allocations from these aquifies will be used on the described property for the following beneficial une: dermite, industrial, commercial, inigation, augmentation, stock watering, necreational water feature pende and piscatorial habitat less than 1000 square fost and wildlife, repl rement and all other augmentation purposes. The constitutes allowable amount of ground water in each aquifer underlying the described property will be allocated.

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, the Colorado Ground Water Consulation shall allocate ground water from the above-described equifies based on ownership of the overlying and and an aquifer life of one handred years. A preliminary evaluation of the applications by fao Commission Staff finds the annual encount of weter available, for allocation from such of the described aquifers underlying the abovedescribed property to be as follows: 263.4 acrofost for the Lytumie-Fox Hills, 398.0 acre-fast for the Ampahos, 528.2 acre-feet for the Denver, and \$19.5 for the Dawnon subject to final staff evaluation. The estimated svailable, annual acco-fact, allocation, amount, for each aquifier indicated above may be increased or decreased by ad by the Commission to conform to the actual equifer ch noteristics, based upon aite specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquifes underlying the above-described property to be as follows: nontributary for the Laurane-Fox Hills, nontributary for the Argunhoe, nontributary for the Deaver, and notnontributary (actual impact replacement) for the Dawson.

Upon Commission approval of these determinations of water right, well permits for wells to withdraw the allowed allocation from a specific quiltr shall be available upon application, subject to the conditions of the determination and the Dasignapied Basis Rules and subject to approval by the Commission, Such wells must be completed in the specified squifer and located on the slove described 900.52 areo property. Well permits for wells to withdraw ground water from the Davyce aquifer would also be subject to the conditions of a sephacement plan to be approved by the Commission.

Any permits withing to object to the approval of these deterministices of water right sound do ao in writing, helefly stating the mature of the objection and indicating the above applicant, property description and the specific aquifers that are the subject of the objection. The objection must be accompanied by, a \$10 per aquifers the and must ; be received by the Commission Staff, Colorado Ground Water Commission, \$18 Contended 80203, by June 16, 2008.

à.

First Publication May 8, 2008 Final Publication May 15, 2008 in Ranchland News Legal No. 12,936

# RECEIVED

# MAY 1 9 2008

WATER CONNECTS 0711-111-140608 0711-111-140608

77.



# DEPARTMENT OF NATURAL RESOURCES

# DIVISION OF WATER RESOURCES

June 27, 2008

Bill Ritter, Jr. Governor Harris D. Sherman Executive Director Dick Wolfe, P.E. Director

George F. and Evelyn McCune 17480 Meridian Road Elbert, CO 80106-8916

# **RE: Determination of Water Right**

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1691-BD, for the allocation of ground water in the Denver aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely,

Justino P. Micolo

Justina P. Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosures: a/s

Office of the State Engineer 1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589 www.water.state.co.us

# APPENDIX D WELL PERMITS





**RESPEC.COM** 

Form No. GWS-25

# OFFICE OF THE STATE ENGINEER COLORADO DIVISION OF WATER RESOURCES 818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

(303) 866-3581

WELL PERM		77785	<u>- F</u>	-
DIV. 2	WD 10	DES. BASIN	MD	

APPLICANT

# APPROVED WELL LOCATION

EL PASO COUNTY NE 1/4 NW 1/4 Section 27 Township 12 S Range 65 W Sixth P.M.

## DISTANCES FROM SECTION LINES

324Ft. from NorthSection Line2632Ft. from WestSection Line

(719) 491-3024

PERMIT TO CONSTRUCT A WELL

UTM COORDINATES (Meters,Zone:13,NAD83) Easting: Northing:

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-90-137(4) and the decree granted in case no. 86CW19 Division 2 Water Court. The operation of this well is subject to the terms and conditions of said decree.
- 4) The use of ground water from this well is limited to municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, augmentation, livestock watering and agricultural uses.
- 5) The pumping rate of this well shall not exceed 150 GPM.

MORLEY-BENTLEY INVESTMENTS LLC

20 BOULDER CRESCENT ST

COLORADO SPRINGS, CO 80903-

- 6) The average annual amount of ground water to be appropriated shall not exceed 539 acre-feet.
- 7) Production is limited to the Laramie-Fox Hills aquifer which is located 2,345 feet below land surface and extends to a depth of 2,630 feet. Plain casing must be installed and grouted to prevent the withdrawal of ground water from other aquifers and the movement of ground water between aquifers.
- 8) The entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules prior to installing casing.
- 9) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.
- 10) A totalizing flow meter must be installed on this well and maintained in good working order. Permanent records of all diversions must be maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- 11) This well shall be constructed at least 600 feet from any existing well, completed in the same aquifer, that is not owned by the applicant.
- 12) This well shall be constructed not more than 200 feet from the location specified on this permit.
- 13) Pursuant to CRS 37-90-137(9)(b) and the Denver Basin Rules, no more than 98% of the nontributary ground water withdrawn annually shall be consumed and the well owner shall demonstrate to the reasonable satisfaction of the State Engineer that no more than 98% of the water withdrawn will be consumed.
- 14) This well is subject to administration by the Division Engineer in accordance with applicable decrees, statutes, rules, and regulations. NOTE: The ability of this well to withdraw its authorized amount of water from this non-renewable aquifer may be less than the 100 years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.

NOTE: To ensure a maximum productive life of this well, perforated casing should be set through the entire producing interval of the approved zone or aquifer indicated above.

NOTE: This permit will expire on the expiration date unless the well is constructed and a pump is installed by that date. A Well Construction and Test Report (GWS-31) and Pump Installation and Test Report (GWS-32) must be submitted to the Division of Water Resources to verify the well has been constructed and the pump has been installed. A one-time extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: http://www.water.state.co.us

APPROVED IDC	Dil	Jele	Achuauia	,)ı
Receipt No. 3662756	State Engineer DATE ISSUED	12-19-2013	By EXPIRATION DATE 1	2-19-2014

LIC

Form No. GWS-25

# OFFICE OF THE STATE ENGINEER COLORADO DIVISION OF WATER RESOURCES 818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

(303) 866-3581

WELL PER		77786	- F	
DIV. 2	WD 10	DES. BASIN	MD	

### APPLICANT

# APPROVED WELL LOCATION EL PASO COUNTY

NE 1/4 NW 1/4 Section 27 Township 12 S Range 65 W Sixth P.M.

# DISTANCES FROM SECTION LINES

304Ft. from NorthSection Line2632Ft. from WestSection Line

(719) 491-3024

PERMIT TO CONSTRUCT A WELL

UTM COORDINATES (Meters,Zone:13,NAD83) Easting: Northing:

### ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- Approved pursuant to CRS 37-90-137(4) and the decree granted in case no. 86CW18 Division 2 Water Court. The operation of this well is subject to the terms and conditions of said decree.
- 4) The use of ground water from this well is limited to municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, augmentation, livestock watering and agricultural uses.
- 5) The pumping rate of this well shall not exceed 150 GPM.

MORLEY-BENTLEY INVESTMENTS LLC

20 BOULDER CRESCENT ST

COLORADO SPRINGS, CO 80903-

- 6) The average annual amount of ground water to be appropriated shall not exceed 575 acre-feet.
- 7) Production is limited to the Arapahoe aquifer which is located 1,585 feet below land surface and extends to a depth of 2,070 feet. Plain casing must be installed and grouted to prevent the withdrawal of ground water from other aquifers and the movement of ground water between aquifers.
- 8) The entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules prior to installing casing.
- 9) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.
- 10) A totalizing flow meter must be installed on this well and maintained in good working order. Permanent records of all diversions must be maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- 11) This well shall be constructed at least 600 feet from any existing well, completed in the same aquifer, that is not owned by the applicant.
- 12) This well shall be constructed not more than 200 feet from the location specified on this permit.
- 13) Pursuant to CRS 37-90-137(9)(b) and the Denver Basin Rules, no more than 98% of the nontributary ground water withdrawn annually shall be consumed and the well owner shall demonstrate to the reasonable satisfaction of the State Engineer that no more than 98% of the water withdrawn will be consumed.
- 14) This well is subject to administration by the Division Engineer in accordance with applicable decrees, statutes, rules, and regulations. NOTE: The ability of this well to withdraw its authorized amount of water from this non-renewable aquifer may be less than the 100 years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.

NOTE: To ensure a maximum productive life of this well, perforated casing should be set through the entire producing interval of the approved zone or aquifer indicated above.

NOTE: This permit will expire on the expiration date unless the well is constructed and a pump is installed by that date. A Well Construction and Test Report (GWS-31) and Pump Installation and Test Report (GWS-32) must be submitted to the Division of Water Resources to verify the well has been constructed and the pump has been installed. A one-time extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: http://www.water.state.co.us

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APPROVED			Inl	MP	
IDC		land, l	Jalo	ACSMUULI	
	State Engineer			Ву	
Receipt No. 3662757	•	DATE ISSUED	12-19-2013	EXPIRATION DATE 12-1	9-2014

LIC

# APPENDIX E WATER QUALITY FROM EXISTING WELLS



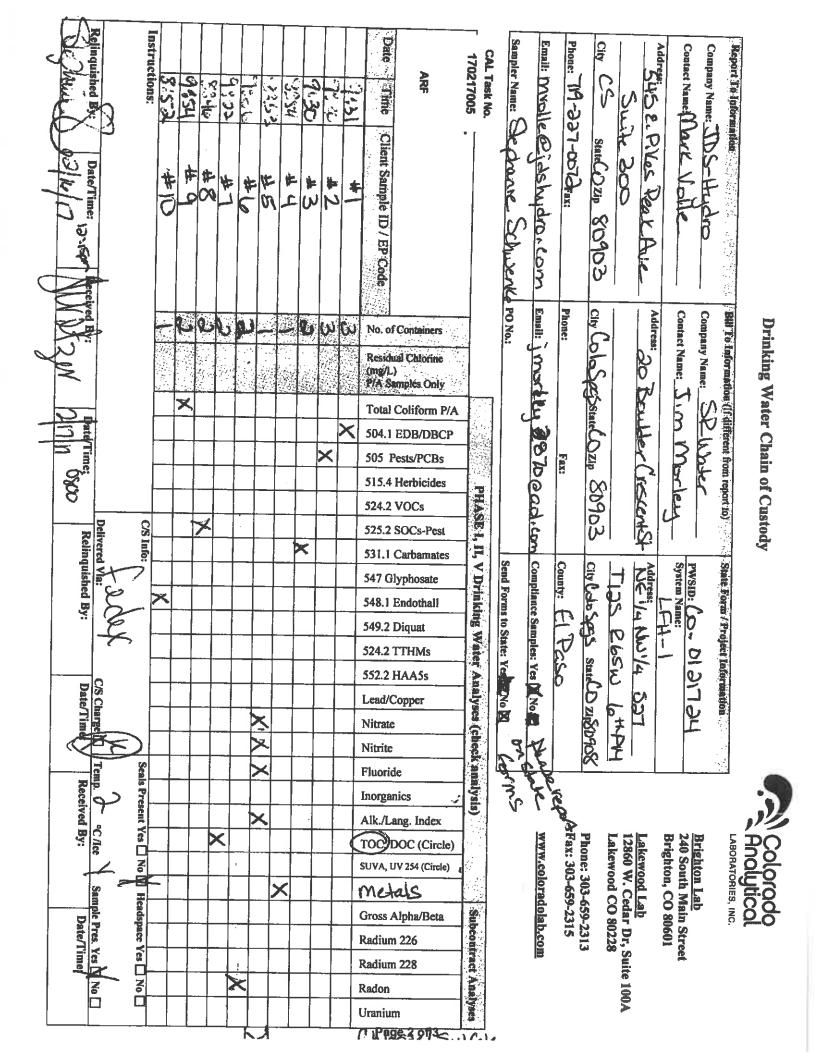


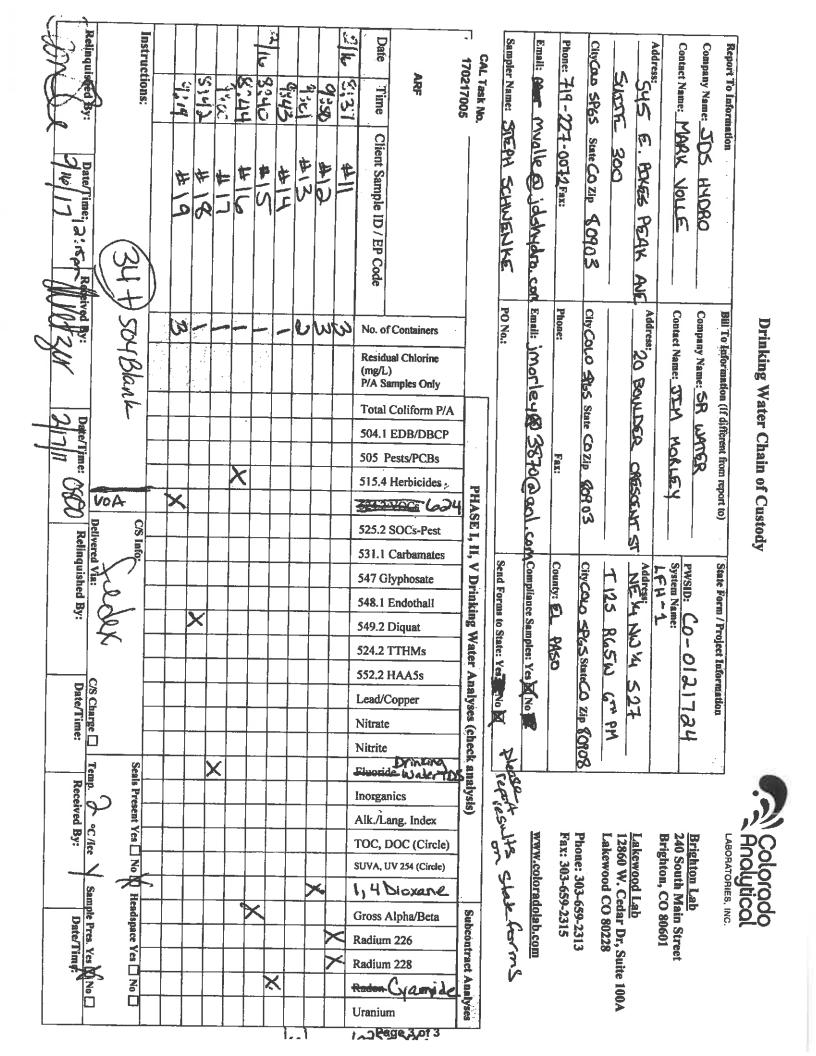
**RESPEC.COM** 

Certified Laboratory Information Certified Laboratory Information ado Analytical Laboratory ar Service Phone: 303-659-2 ar Service Phone: 303-659-2 ar Service Mone: 303-659-2 ar Service Phone: 303-7	Coloredo Department of Todis E Health and Environment		Inori 4300 ( Fax:	Inorganic Chemicals Certified Laboratory Report Forn WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO 80246-153 Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us	emicals Certified Laboratory Report Form WQCD - Drinking Water CAS Creek Drive South, Denver, CO 80246-1530 58-1398; cdphe.drinkingwater@state.co.us	Form 5-1530 co.us		Revise	Revised 6/13/2014
Fublic Water System InformationCertified Laboratory Information24Laboratory ID: CO 00151Laboratory Name: Colorado Analytical Laboratory1Laboratory Name: Colorado Analytical Laboratory1Laboratory Name: Colorado Analytical Laboratory1Laboratory Name: Colorado Analytical Laboratory1Laboratory Name: Colorado Analytical Laboratory2012Phone #: 719-227-00721Contact Person: Customer Service2012Phone #: 719-227-00722012Contact Person: Customer Service2012Samples Need to be Composited BY THE LAB?2013Section III (Supplied or Comments: Section III (Supplied or Completed by Public Water System)2014Ioolector: Stephanie Schwe Facility ID (On Schedule): Section IV Inorganic Chemicals (Completed by Certified Laboratory)2017/17170217005-012017/17170217005-012017/17170217005-012017/17170217005-012017/17170217005-012017/17170217005-012017/1717021005-012017/1717021005-012017/1717021005-012017/1717021005-012017/1717021005-012017/1717021005-012017/1717021005-012017/1717021005-012017/1717021005-012017/1717021005-012017/1717021005-012017/1717021005-012017/171702105-012017/1717021005-012017/17170210	Section	L (Sumplied or C	ompleted by Public	Water System)	Section II (S	upplied or Completed h	w Certified La	aboratory)	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		Public Wate	er System Informat	tion		Certified Laboratory I	nformation	:	
I     Laboratory Name: Colorado Analytical Laboratory       k Volle     Phone #: 719-227-0072     Contact Person: Customer Service     Phone: 303-659-2       k Volle     Do Samples Need to be Composited BY THE LAB?     Comments:     303-659-2       Analysis     Do Sample ID     Composited by Public Water System)     Sample Pt ID (On Schedule):       Analysis     Lab Sample ID     Analyte Name     Canposited by Certified Laboratory)       Date     170217005-01     Fluoride     Analyte Name	PWSID#: CO-012172	4			Laboratory ID: CO 0015				
K Vollc       Phone #: 719-227-0072       Contact Person: Customer Service       Phone: 303-659-2         Do Samples Need to be Composited BY THE LAB'       Do Samples Need to be Composited BY THE LAB'       Comments:       203         Section III (Supplied or Completed by Public Water System)       Section III (Supplied or Completed by Public Water System)       Sample Pt ID (On Schedule):         Analysis       Lab Sample ID       Analyte Name       CAS No       Analytical       MCI.         2117/17       170217005-01       Fluoride       7681-49-4       PA 30.0       Analytical       MCI.	System Name: LFH-1				Laboratory Name: Colora	do Analytical Laborato	L,		
In Samples Need to be Composited BY THE LAB?     Comments:       Composited BY THE LAB?     Section III (Supplied or Completed by Public Water System)       Section III (Supplied or Completed by Public Water System)       Collector: Stephanie Schwe Facility ID (On Schedule):       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Date     Tab Sample ID       Date     Tab Sample ID       2117/17     170217005-01	Contact Person: Mark	: Vollc			Contact Person: Custome		me: 303-659-	-2313	
Collector: Stephanie Schwe     Facility ID (On Schedule):       Section III (Supplied or Completed by Public Water System)       Collector: Stephanie Schwe     Facility ID (On Schedule):       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Date     CAS No       Analysis     Lab Sample ID       Date     Table 1D       2117/17     170217005-01	Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
Section III (Supplied or Completed by Public Water System)       Collector: Stephanie Schwe Facility ID (On Schedule):       Section III (Supplied or Completed by Public Water System)       Analysis       Lab Sample ID       Analysis       Lab Sample ID       Analysis       Lab Sample ID       Analysis       Date       COllector: Stephanie Schwe Facility ID (On Schedule):       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Method       Method       Tot       Date       Tot       Tot <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Collector: Stephanic Schwe Facility ID (On Schedule):     Sample Pt ID (On Schedule):       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       b Analysis     Lab Sample ID     Method     MCI.       Date     768 No     Analytical     MCI.       Date     170217005-01     Fluoride     7681-49-4     PpA 300.0     A				Section III (Supplied or Comp	leted by Public Water Syste	(III)			
Section IV Inorganic Chemicals (Completed by Certified Laboratory)           Lab Analysis         Lab Sample ID         Analytical         MCI.           Date         Date         CAS No         Analytical         MCI.           2/17/17         170217005-01         Fluoride         7681-49-4         FPA 300.0         Analytical	Sample Date: 2/16/17	Collector	r: Stephanie Schwe	Facility ID (On Schedule):	Sa	mple Pt II) (On Schedu	le):		
I ab Analysis     Lab Sample II)     Analytical MCI.       Date     Date     CAS No     Analytical MCI.       Date     0     CAS No     Analytical MCI.       2/17/17     170217005-01     Fluoride     7681-49-4     FPA 300.0			Sect	tion IV Inorganic Chemicals (C	ounpleted by Certified Labo	ratory)			
2/17/17 170217005-01 Fluoride 7681-49-4 PpA 300.0 A				Analyte Name	CAS No		MCL.	Lab MRL	Result
			170217005-01	Fluoride	7681-49-4	EPA 300.0	4	60.0	1.07

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

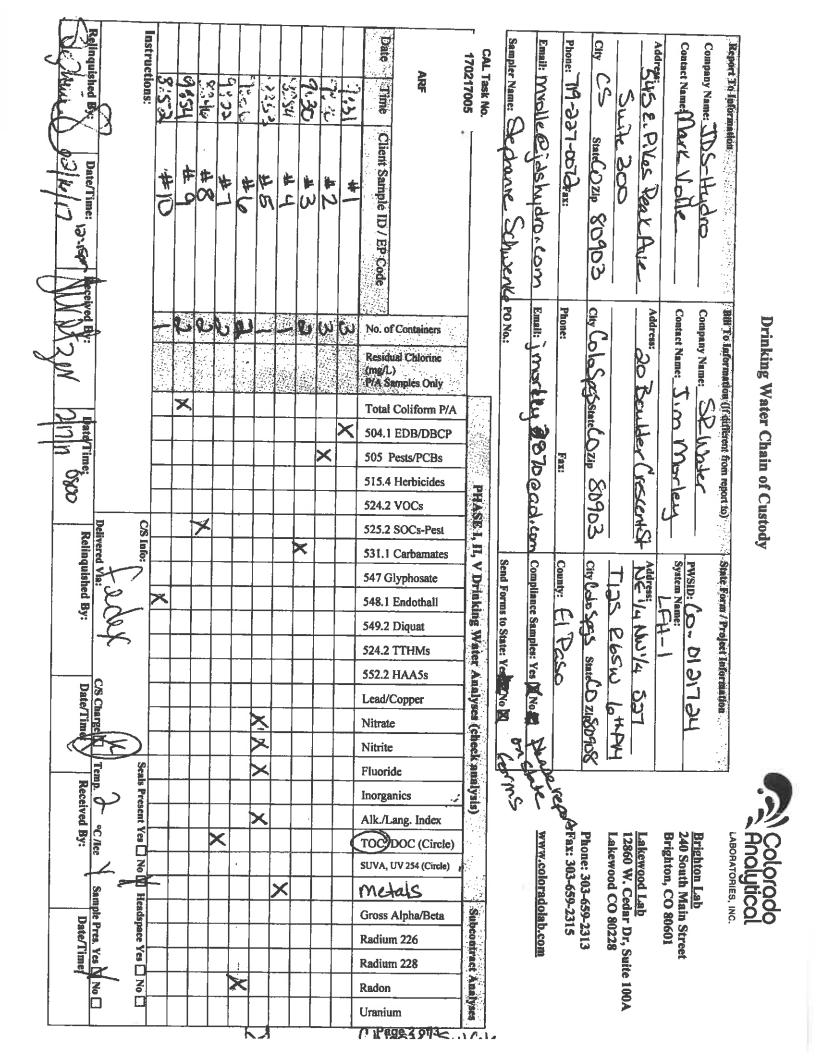


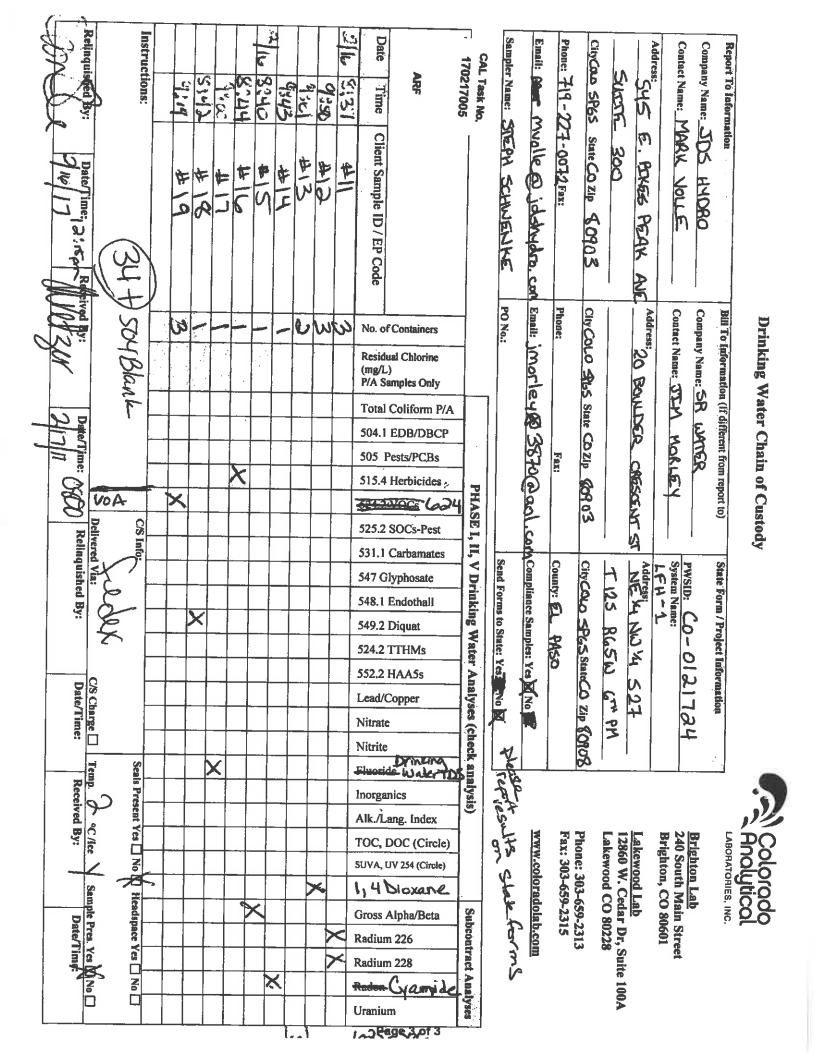


		Inor	ganic Chemicals Certified Laboratory ] WOCD - Drinking Water CAS	Inorganic Chemicals Certified Laboratory Report Form WOCD - Drinking Water CAS			Revise	Revised 4/13/2015
Colorado Departarent of Padits F health and Emvironment	2000 11 11 11 11 11 11 11 11 11 11 11 11	Subn	nit Online at http://www	Submit Online at http://www.wqcdcompliance.com/login	E			IOC
	Section I (Supplied	Section I (Sumplied or Completed by Public Water Syst	: Water System)	Section II (Sum)ie	Section II (Sumplied or Completed hy Certified I aboratory)	stified La	horatory	
	Public	<b>Public Water System Information</b>	tion	Certifi	Certified Laboratory Information	mation	A YOUR DOOL	
PWSID#: CO-0121724	-0121724			Laboratory ID: CO 0015				
System Name: LFH-1	: LFH-1			Laboratory Name: Colorado Analytical Laboratory	alytical Laboratory			
Contact Person	Contact Person: Mark Volle		Phone #:	Contact Person: Customer Service	Phone:	303-659-2313	2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
			Section III (Supplied or Comp)	(Supplied or Completed by Public Water System)				
Sample Date: 2/16/17		lector: Stephanie Schwe	Collector: Stephanie Schwe Facility ID (On Schedule):	Sample F	Sample Pt ID (On Schedule):			
Tak Daries			tion IV Inorganic Chemicals (C	Section IV Inorganic Chemicals (Completed by Certified Laboratory)				
Lab Receipt	LAD Analysis Date	Lab Nample ID	Analyte Name	CAS No	Analytical Method	MCL.	Lab MRL	Result
2/17/17	2/22/17	170217005-01A	Antimony	7740-36-0	00	0.006	0.001	RD1.
2/17/17	2/22/17	170217005-01A	Arsenic	7440-38-2	EPA 200.8 0	0.01	0.001	0.002
21/1/12	2/22/17	170217005-01A	Barium	7440-39-3	EPA 200.8	2	0.001	0.015
/1///7	2/12/2/2	170217005-01A	Beryllium	7440-41-7	EPA 200.8 0.	0.004	0.001	BDL
11/1/17	2/22/17	170217005-01A	Cadmium	7440-43-9	EPA 200.8 0.	0.005	0.001	BDL
11/1/172	11/22/2	170217005-01A	Chromium	7440-47-3	EPA 200.8	0.1	0.001	0.001
/1//1/7	2/22/17	170217005-01A	Mercury	7439-97-6	EPA 200.8 0.	0.002	0.0001	BDL
11/11/7	117277	170217005-01A	Nickel	7440-02-0	EPA 200.8 N	N/A	0.001	0.001
/1//1/2	11/22/2	170217005-01A	Selenium	7782-49-2	EPA 200.8 0	0.05	0.001	BDL
11/11/7	2/24/17	170217005-01A	Sodium	7440-23-5	EPA 200.7 N	N/N	0.1	142.7
11/11/7	11/77/7	170217005-01A	Thallium	7440-28-0	EPA 200.8 0.	0.002	0.001	BDL

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDI.: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level







#### Customer ID: 20040H Account ID: Z01034 Project #: 009-616 ANALYTICAL REPORT

### Stuart Nielson Colorado Analytical Laboratories, Inc.

L	ab Sam	ple ID	B16917-001	· ·				
Custom	er Sam	iple ID	170217005-	<b>01 - Lfh-1</b> - F	WSID: CO	0121724 - LFH-1		
				sampled or	n 02/16/17 (	@ 0906 by Stephanie Sch	wenke	
				Precision*	Detection		Analysis	
Parameter		Code	Result	+/-	Limit	Method	Date / Time	Analyst
<b>Gross Alpha</b>	1.4	Т	0.0	0.0	1.5	SM 7110 B	3/2/17 @ 0840	LD
	pCI/L	Т	0.0	2.1	2.2	SM 7110 B	3/2/17 @ 0840	LD
Radium-226	pCI/L	Т	0.0	0.2	0.1	SM 7500-Ra B	3/3/17 @ 0825	LD
	pCi/L	Т	0.0	0.8	0.8	EPA Ra-05	3/14/17 @ 1257	JR
Radon	pCi/L	Т	345	25	13.9	SM 7500-Rn B	2/17/17 @ 1500	AN

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; NJ CO008; NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

\*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Susspended (R) = Total Residual (PD) = Potentially Dissolved <= Less Than

			Radionuclide	s Certifie	d Laboratory	Radionuclides Certified Laboratory Report Form			Revision	Revision 6/13/2014
			M	QCD - Dri	WQCD - Drinking Water CAS	CAS				(
Colorado Department		43	00 Cherry Cre	ek Drive S	South; Denver	4300 Cherry Creek Drive South; Denver, CO 80246-1530			02	SAD
of Public Health		ł	Fax: (303) 758-	-1398; cdp	he.drinkingw	(303) 758-1398; cdphe.drinkingwater@state.co.us				
		Section I (Supplied or Completed by Public	sblic Water System)	(iii		Section II (Supplied or Completed by Certified Laboratory)	ed or Completed	by Certified 1	Laboratory)	
		Public Water System Information				Certified L	Certified Laboratory Information	nation		
PWS ID: C00121724	21724				Laboratory ID: CO 00008	00008				
System Name: Lfh-1	L.Ab-1				Laboratory Name:	Laboratory Name: Hazen Research, Inc.				
Contact Person:			Phone #:		Contact Person: Jessica Axen	ssica Axen		Phone #: 303-279-4501	-279-4501	
Comments:			Do Samples Need to be	4	Comments:					
			Composited <u>BY THE LAB?</u>							·
			Section I	II (Supplied	or Completed by	Section III (Supplied or Completed by Public Water System)				
Sample Date: 02/16/2017	02/16/2017	Collector: Stephanie Schwenke Facility ID (On Schedule):	Facility ID (On	Schedule):	Sam	Sample Pt ID (On Schedule):				
			Section IV Radi	onuclides (Su	applied or Comple	Section IV Radionuclides (Supplied or Completed by Certified Laboratory)	lory)			
Lab Receipt Date	Lab Receipt Lab Analysis Date Date	s Lab Sample ID	Analy	Analyte Name (Code)	ode)	CAS No.	Analytical Method	MCL	Lab MRL	Result
610021/00	03/02/2017	B16017-001	Gross Alpha Including Uranium (4002)	acluding Ura	anium (4002)	12587-46-1	SM 7110 B	N/A	1.5	0.0(±0.0)
110711100			Combin	Combined Uranium (4006)	(900+)	7440-61-1	D2907-97	30 ug/L		
02/17/2017	03/03/2017	B16917-001	Radi	Radium -226 (4020)	20)	13982-63-3	SM 7500-Ra B	N/A	0.1	0.0(±0.2)
02/17/2017	03/14/2017	B16917-001	Radi	Radium -228 (4030)	30)	15262-20-1	EPA Ra-05	N/A	0.8	0.0(±0.8)
02/17/2017	03/02/2017	B16917-001	Gro	Gross Beta (4100)	(0)	12587-47-2	SM 7110 B	50 pCi/L*	2.2	0.0(±2.1)
			Total Dis	Total Dissolved Solids (1930)	ls (1930)		EPA 160.3	N/A		
*The MCL ft	or Gross Beta	*The MCL for Gross Beta Particle Activity is 4 mrem/year. Si	Ir. Since there is	no simple co	onversion betwee	nce there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.	EPA considers 2	50 pCi/L to b	be the level	of concern.
			Section V (	Section V Calculated Values	alues					
		N/N	Gross Alpha Excluding Uranium (4000)	xcluding Un	anium (4000)	Calculated Value	alue	15 pCi/L	N/A	
		14 F.F.	Combined Radium {-226 & -228} (4010)	ium {-226 &	:-228} (4010)	Calculated Value	alue	5 pCi/L	N/A	
Z	NT: Not Tested					ug/L: Micrograms per Liter	as per Liter			5
Ľ	ib MRL: Labo	Lab MRL: Laboratory Minimum Reporting Level				pCi/L: Picocuries per Liter	s per Liter			
BI	DL: Below La	BDL: Below Laboratory MRL. A less than sign (<)	n (<) may also be used	e used		MCL: Maximum Contaminant Level	Contaminant L	evel		

MCL: Maximum Contaminant Level

Drinking	
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ody	

	Construction of the second of the second		
Report To Information	Bill To Information (if different from report to)	State Form / Project Information	Colorado Analytical
Company Name: <u>Colorado Analytical</u>	Company Name: Same As Report To	PWSID: C00121724	Brighton Lab
Contact Name: Stuart Nielson	Contact Name:	System Name: Lfn-1	240 South Main Street Brighton, CO 80601
Address: <u>240 S. Main St.</u>	Address:	System Address: Ne 1/4 Nw 1/4 S27	Lakewood Lab 12860 W. Cedar Dr. Suite 101
City: Brighton State: CO Zip: 80601	City: State: Zip:	T125 R65w 6th Pm City: Colorado Spgs State: CO Zip: 80908	Lakewood CO 80228
Phone:303-659-2313 Fax:303-659-2315	Phone: Fax:	County: El Paso	Phone: 303-659-2313 Fax: 303-659-2315
Email: stuartnielson@coloradolab.com	Email:	Compliance Samples: Yes 🕅 No 🗌	www.coloradolab.com
Sampler Name: Stephanie Schwenke	PO No.:	Send Forms to State: Yes 🗌 No 🕅	
	PHASE I, I	PHASE I, II, V Drinking Water Analyses (check analysis)	nalysis) Subcontract Analyses

4	Relinquished By:	1.8	-	Instruct						02/16/17	Date		Task	
	shed By:			ions:Pleas					LF	0906	Time		Task Number	
l	4			e print on s					Mas		Client S			
011	Date/Time:			Instructions: Please print on state forms but do not submit to CDPHE. Thanks!					BOTTLES	170217005-01 LFH-1	Client Sample ID / EP Code			
2	6 Rec			do not sub				1	S		IP Code			
	Received By:			mit to C						6	No. o	f Containers		
				DPHE. Th							(mg/l	ual Chlorino _) iamples Only		
				anks!							Tota	Coliform P/	Ά	
											504.	EDB/DBCI	<b>P</b>	
	Date/Time:										505	Pests/PCBs		
	Time										515.4	4 Herbicides		PH
											524.2	2 VOCs		PHASE I, II, V Drinking
		Deli		C/S Info:							525.2	2 SOCs-Pest		I, E
	Reli	Delivered Via:		Info;							531.	I Carbamates	;	LV.
	Relinquished By:	Via:									547 (	Glyphosate		Dria
	hed H	F	5								548.	I Endothall		king
	ly:	<b>X3</b> 7	F								549.2	2 Diquat		
		S	tage								52.4.2	2 TTHMs		uter .
			Ç								552.2	2 HAA5s		Anal
	Date	C/S Charge									Lead	/Copper		lyses
	Date/Time:	narge		i							Nitra	te		
	R		$\cap$								Nitri	te		eck a
		Temp.	10	Scal							Fluo	ride		Water Analyses (check analysis)
	RER		R	Seals Present	þ						Inorg	ganics		(sis
		°C /Ice	6		Ċ						Alk./	Lang. Index		
		• 8	7	Yes 🛛							TOC	, DOC (Circl	e)	
	М	Samp	7	No							SUVA	, UV 254 (Circle	ə)	
	0		3	포										70
	2	is. Ye	۲	Headspace						$\boxtimes$	Gros	s Alpha/Beta		Sabe
	Date/Time:	Sample Pres. Yes 🔲 No 🗌	#	ace Yes						$\boxtimes$	Radi	um 226		Subcontract Analyses
	e/Tim	5	HAZE		₥					$\boxtimes$	Radi	um 228		let A
	Date/Time: 43		12	No No	6					$\boxtimes$	Rado	n		nalyz
	0.8.		L	7							Uran	ium		Ē

FEDEX



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Report To: Mark Volle Company: JDS Hydro Consultants 545 E. Pikes Peak Ave Suite 300 Colorado Springs CO 80903 **Analytical Results** 

TASK NO: 170217005

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170217005 Client PO: Client Project: LFH-1 CO-0121724

Date Received: 2/17/17 Date Reported: 3/6/17 Matrix: Water - Drinking

Customer Sample ID LFH-1 Sample Date/Time: 2/16/17 Lab Number: 170217005-01

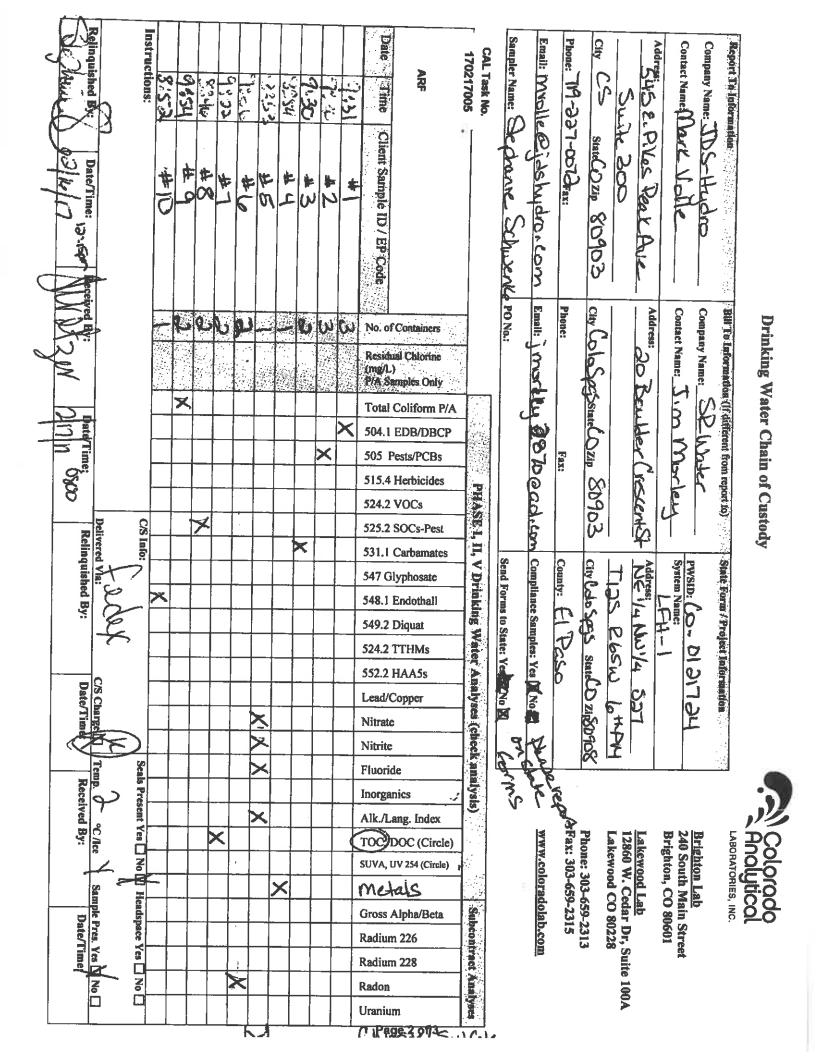
Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	155.5 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Calcium as CaCO3	6.3 mg/L	SM 3111-B	0.1	2/24/17	MBN
Carbonate	4.0 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Langelier Index	-0.43 units	SM 2330-B		2/24/17	SAN
pH	8.44 units	SM 4500-H-B	0.01	2/17/17	MBN
Temperature	20 °C	SM 4500-H-B	1	2/17/17	MBN
Total Alkalinity	159.5 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Total Dissolved Solids	456 mg/L	SM 2540-C	5	2/23/17	ISG

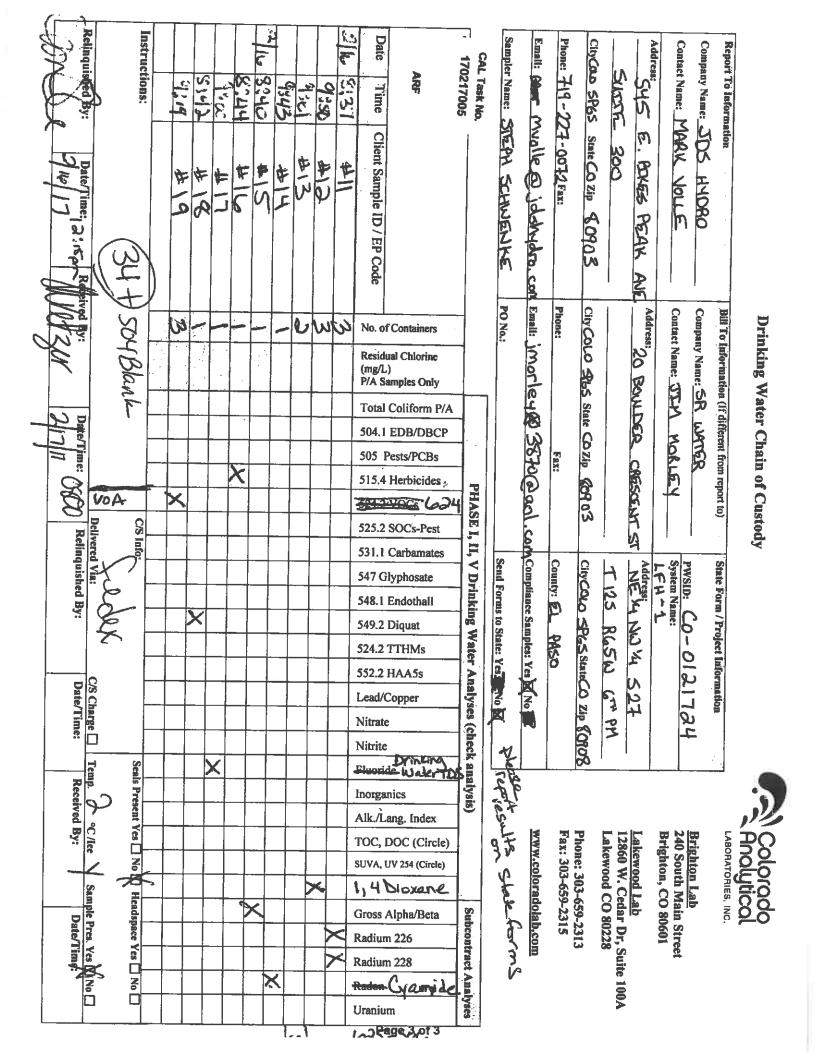
Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

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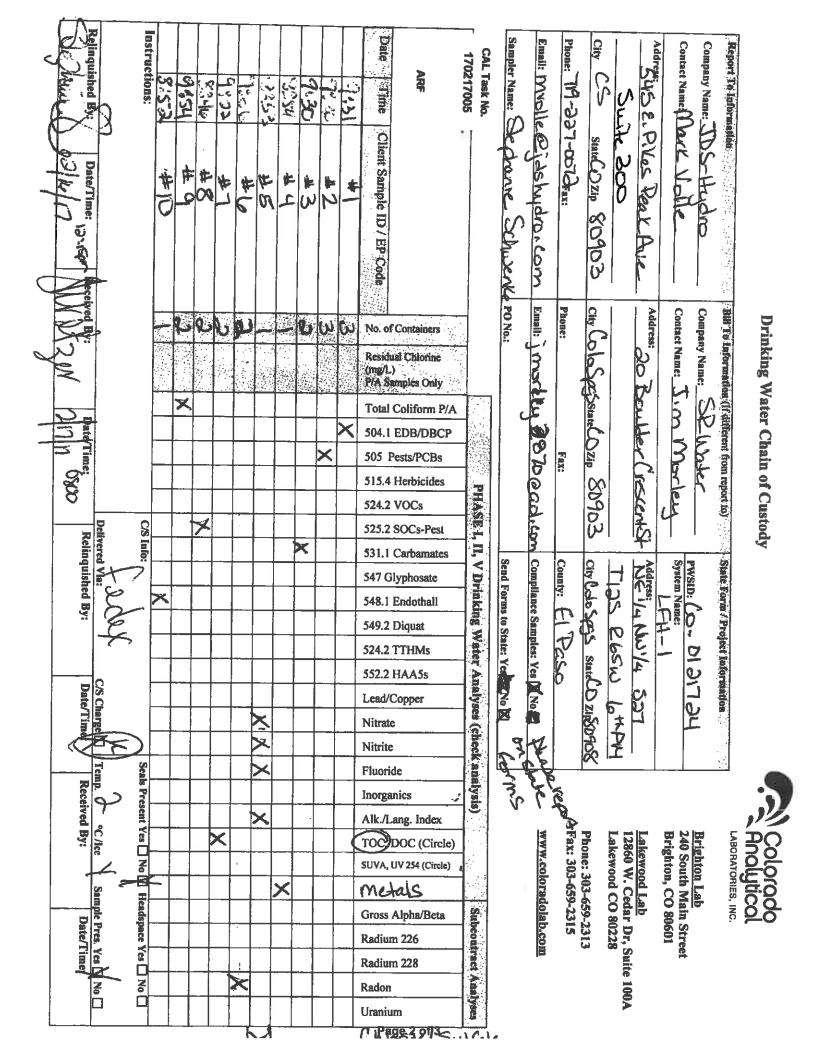


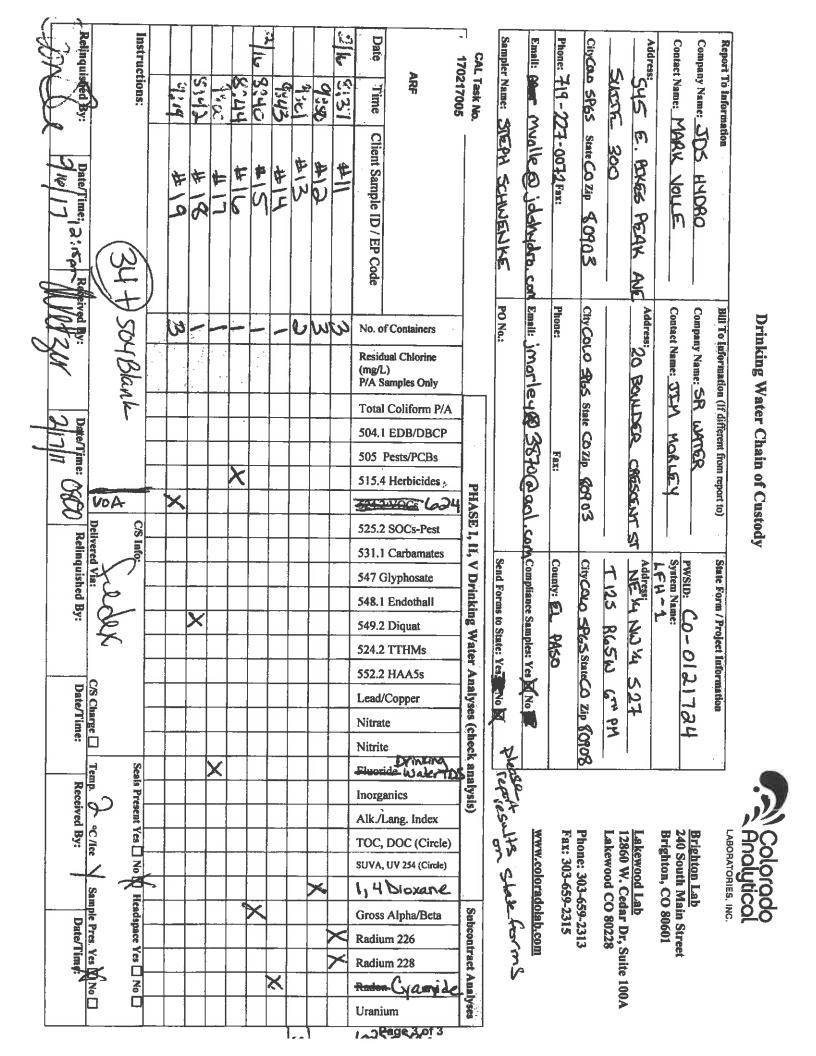


Collarado Departorent of Pedite (fealth and Eaviconment	Nitrate and Nitrite Submit Onlin	Vitrite as N WQC Online at 1	Vitrogen C JD - Drink http://www	e as Nitrogen Certified Laboral WQCD - Drinking Water CAS ie at http://www.wqcdcomplian	e as Nitrogen Certified Laboratory Report Form WQCD - Drinking Water CAS ie at http://www.wqcdcompliance.com/login	port Form /login			Revised	Revised 4/13/2015 NOX
Section I (Sumplied or Completed by Public Water System)	ad by Public Wa	ter System)			Section II (Su	Section II (Supplied or Completed by Certified Laboratory)	pleted by Cer	tified Laho	natorvì	
Public Water System Information	m Information					Certified Laboratory Information	atory Inform	nation		
PWSID#: CO-0121724				Laborator	Laboratory ID: CO 0015					
System Name: LFH-1				Laborator	Laboratory Name: Colorado Analytical Laboratory	do Analytical Li	aboratory			
Contact Person: Mark Volle	Ph	Phone #: 719-;	719-227-0072	Contact P	Contact Person: Customer Service	Service	Phone: 3	Phone: 303-659-2313	13	
Comments:				Comments:	rs:					
Section III (Supplied or Completed by Public Water System)	ublic Water Syst	cm)		Secti	Section IV (Supplied or Completed by Certified Laboratory)	or Completed b	y Certified L	aboratory)		
Sample Collector Facility ID On Schedule Date	Sample Pt ID 0 On Schedule	Confirmation?	Lab Receipt Date	Lab Analysis Date	I aboratory Sample ID #	Analyte	Analytical Method	MCL (mg/L)	Lab MRL. (mg/L)	Result (me/L)
2/16/17 cphanic Schwenk			2/17/17	2/17/17	170217005-01	Nitrate Nitrogen	EPA 300.0	10	0.1	BDL
2/16/17 cephanie Schwenk			2/17/17	2/17/17	170217005-01	Nitrite Nitrogen	EPA 300.0	-	0.1	BDL

NT: Not Tested Lab MRI.: Laboratory Minimum Reporting Level BIDL: Below Laboratory MRI., A less than (<) may also used.

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level





Colonado Departement Section I (Supplied or C Public Wate PWSID#: CO-0121724 System Name: LFH-1 Contact Person: Mark Volle Comments:	An Submit Online at An Submit Online at An Submit Online at Section I (Supplied or Completed by Public Water System Information -0121724 -0121724 -121	Submit Online at http://www.wqcdcompliance.com/login	wardannianee com/loc	tin		<b>JOS/JOA</b>	
Supplied or C Public Wate offe	ompleted by Public r System Informa		with the second s				200
Volle		Water System)	Section JI (Suppl	Section JI (Supplied or Completed by Certified Laboratory) Contified Taboratory Information	by Certified I	aboratory)	
Voile			Laboratory ID: CO 00063				
Volle			Laboratory Name: Colorado Analytical Laboratory	Analytical Laborato	, ki		
		Phone #: 719-227-0072	Contact Person: Customer Service		Phone: 303-659-2313	-2313	
		Do Samples Need to be Composited BY THE LAB?	Comments:				
		Section V (Supplied or Cornol	(Supplied or Commleted by Public Water System)				
Collector	tor: Stephanie Schwenk Facil	wenk Facility ID (On Schedule):	Sample	Sample Pt ID (On Schedule):			
	Section VJ Syr	nthetic Organic Chemicals (Sup	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	(Laboratory)			
sis	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (up/L)	Lab MRL (ue/L)	Result (ue/L.)
	170217005-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
	170217005-01G	2,4,-D	94-75-7	EPA 515.4	70	0.1	BDL
	170217005-01G	2,4.5-TP	93-72-1	EPA 515.4	50	0.2	BDL
	170217005-01H	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL.
1 1/2/2	110-500/12/1	Aldicarb	116-06-3	EPA 531.1	N/A	9.6	BDL
╞	170217005-011	Aldicarh sufforide	1040-00-1	EDA 521 1	A/N		BDL
	1110-500212021	Atrazine	1912-24-9	EPA 525.2	NA 3	0.1	BDL
2/23/17 17	170217005-01H	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
	170217005-011	Carbofuran	1563-66-2	EPA 531.1	40	0.9	BDL
	170217005-01F	Chlordane	57-74-9	EPA 505	2	0.2	BDI,
+	170217005-01G	Dalapon	75-99-0	EPA 515.4	200	1	BDL
	170217005-0111	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	0.6	BDL
+	170217005-01H	Di(2-cthyfhexyl)phthalate	117-81-7	EPA 525.2	و	0.6	BDI.
+	170217005-01G	Dinosch	85-85-7	FPA 515.4	7	0.2	BDL
+	1/021/005-01K	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
+	170217005-01J	Endothall	145-73-3	FPA 548.1	100	6	BDL
+	-110-C00/ 170/ 1	Endin	72-20-8	EPA 505	2	0.01	BDL
+	170217005-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDI,
	170217005-01H	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
2/24/17 1	170217005-01F	Heptachlor epoxide	1024-57-3	EPA 505	0.2	0.02	BDL

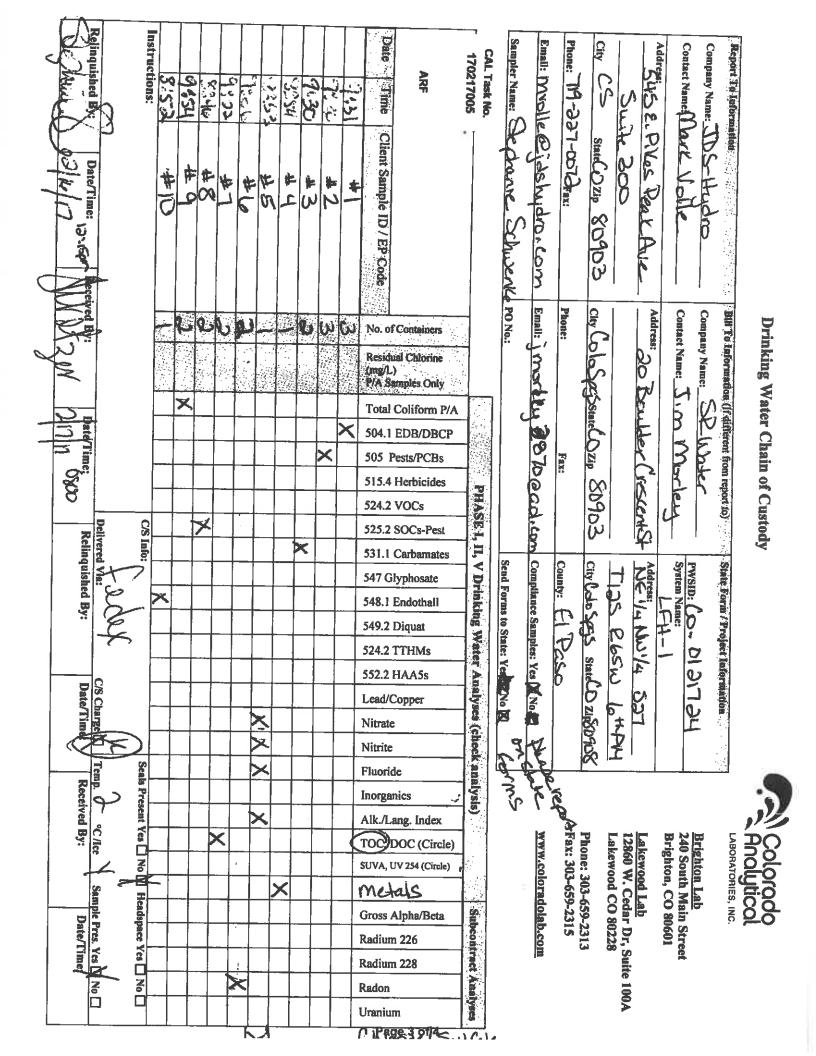
Page 1 of 4

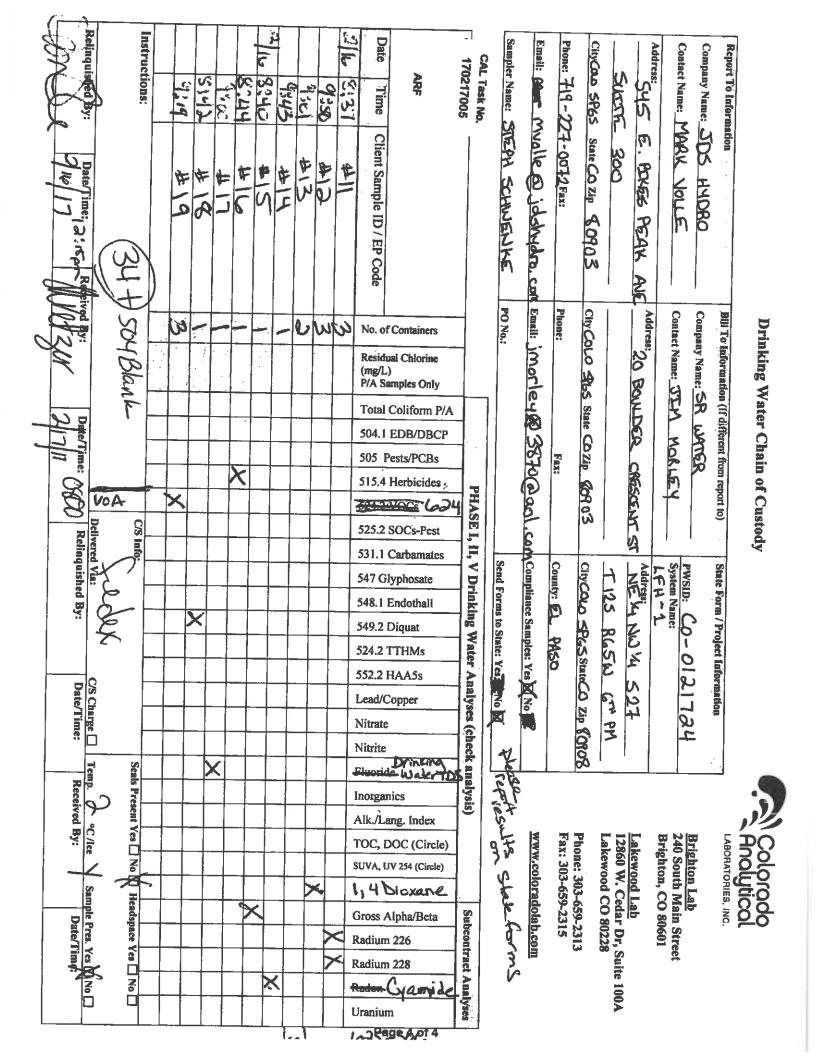
			Result	('T/8n)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDI.	BDI,
			-	-										
			Lab MRL	(rt/gn)	0.1	0.1	0.02	0.1	-	0.04	0.1	0.1	0.07	-
			MCL	('1/3m)	1	50	0.2	40	200	-	500	0.5	4	3
	Sample Pt ID (On Schedule):	aboratory)	Analytical	Method	EPA 505	EPA 505	EPA 505	EPA 505	I:PA 531.1	EPA 515.4	EPA 515.4	FPA 505	EPA 525.2	EPA 505
olic Water System)	Sample Pt	ompleted by Certified L	CAS No.		1 18-74-1	77-47-4	58-89-9	72-43-5	23135-22-0	87-86-5	1918-02-1	1336-36-3	122-34-9	8001-35-2
Section V (Supplied or Completed by Public Water System)	chwenk Facility ID (On Schedule):	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	Analyte Name		Hexachlorobenzene	Hexachlorocyclopentadiene	Lindane	Methoxychlor	Oxamyl	Pentachlorophenol	Picloram	Polychlorinated hiphenyl's	Simazine	Toxaphene
	Collector: Stephanie Schwenk Facil	Section VI S	Lab Sample ID		170217005-01F	170217005-01F	170217005-01F	170217005-01F	170217005-011	170217005-01G	170217005-01G	170217005-01F	170217005-01H	170217005-01F
21724	16/17	and the second se	Lah Analysis	Date	2/24/17	2/24/17	2/24/17	2/24/17	3/2/17	3/1/17	3/1/17	2/24/17	2/23/17	2/24/17
PWSID#: CO-0121724	Sample Date: 2/16/17		Lab Receipt	Date	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17

NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also he used.

170217005-01

212. 3/8/17







Report To: Mark Volle Company: JDS Hydro Consultants 545 E. Pikes Peak Ave Suite 300 Colorado Springs CO 80903

# **Analytical Results**

TASK NO: 170217005

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170217005 Client PO: Client Project: LFH-1 CO-0121724

Date Received: 2/17/17 Date Reported: 3/6/17 Matrix: Water - Drinking

Customer Sample ID	LFH-1
Sample Date/Time:	2/16/17

Lab Number: 170217005-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	5.8 mg/L	EPA 300.0	0.1 mg/L	2/17/17	ШG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	2/24/17	VDB
E-Coli	< 1 mpn/100ml	Colilert	1 mpn/100ml	2/18/17	VDB
Sulfate	142.1 mg/L	EPA 300.0	0.1 mg/L	2/17/17	ЦG
Total Coliform	93 mpn/100ml	Colliert	1 mpn/100ml	2/18/17	VDB
Total Organic Carbon	0.8 mg/L	SM 5310-C	0.5 mg/L	2/23/17	ISG
Turbidity	2.49 NTU	SM 2130-B	0.01 NTU	2/17/17	MBN
<u>Total</u>					
Aluminum	0.053 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD
Calcium	2.5 mg/L	EPA 200.7	0.1 mg/L	2/22/17	MBN
Соррег	0.0026 mg/L	EPA 200.8	0.0008 mg/L	2/22/17	TCD
iron	0.602 mg/L	EPA 200.7	0.005 mg/L	2/24/17	MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001 mg/L	2/22/17	TCD
Magnesium	0.39 mg/L	EPA 200.7	0.02 mg/L	2/22/17	MBN
Manganese	0.0259 mg/L	EPA 200.8	0.0008 mg/L	2/22/17	TCD
Potassium	1.6 mg/L	EPA 200.7	0.1 mg/L	2/22/17	MBN
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	2/22/17	TCD
Strontium	0.037 mg/L	EPA 200.8	0.005 mg/L	2/22/17	TCD
Total Hardness	7.7 mg/L as CaCO3	SM 2340-B	0.1 mg/L as CaCO3	2/24/17	MBN
Uranium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	2/22/17	TCD
Zinc	0.004 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD

#### Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

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Report To: Mark Volie Company: JDS Hydro Consultants 545 E. Pikes Peak Ave Suite 300 Colorado Springs CO 80903

# **Analytical Results**

TASK NO: 170217005

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 17 Client PO: Client Project: LF			Received: 2/17/17 Reported: 3/6/17 Matrix: Water		
Customer Sample Sample Date/J Lab Nun					
Test	Result	Method	ML.	Date Analyzed	Analyzed By
<u>Tota/</u> Zinc	0.005 mg/L	EPA 200.8	0.001 mg/L	. 2/22/17	TCD

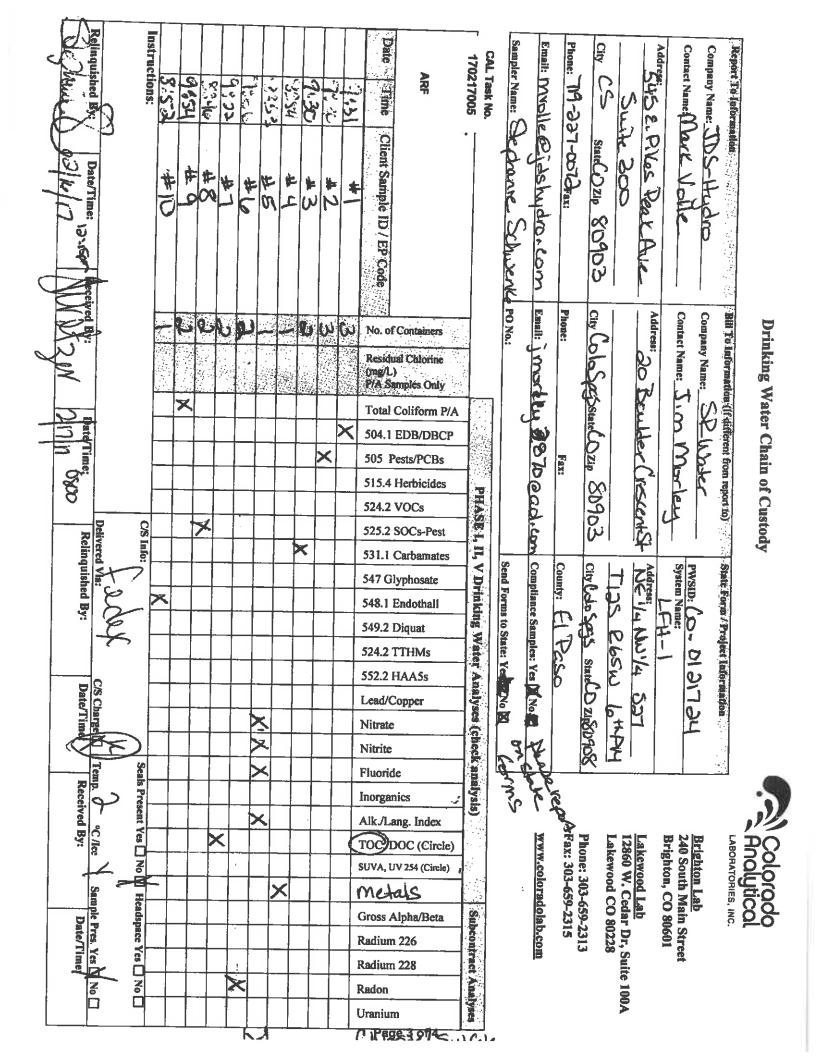
Abbreviations/ References:

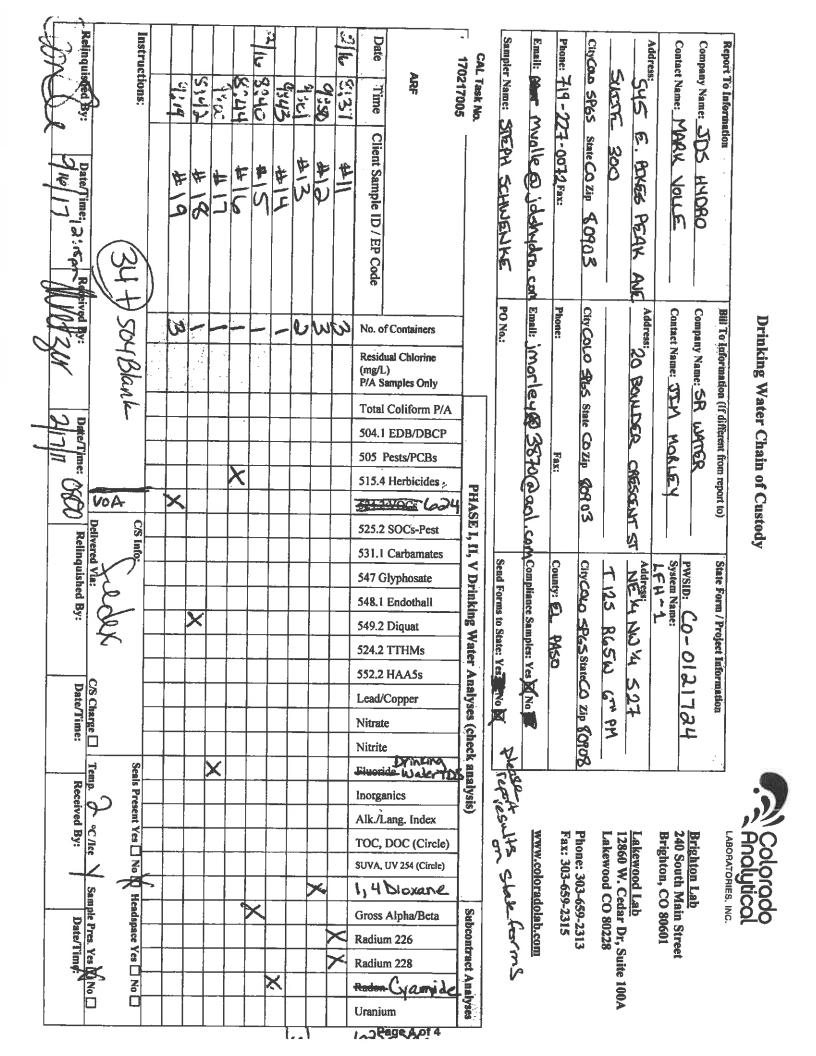
ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

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170217005 2/2







Billings, MT 800.735.4489 • Casper, WY 888.235.0515 College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

### **ANALYTICAL SUMMARY REPORT**

March 02, 2017

Colorado Analytical Laboratories Inc PO Drawer 507 Brighton, CO 80601

Work Order: C17020566 Quote ID: C4542 - 624, 625, 1,4-Dioxane

Project Name: 170217005 LFH-1 CO-0121724

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 2/21/2017 for analysis.

Lab ID	Client Sample ID	Collect Date R	eceive Date	Matrix	Test
C17020566-001	170217005-01 LFH-1	02/16/17 0:00	02/21/17	Drinking Water	Azeotropic Distilation Separatory Funnel Liquid-Liquid Ext. Semi-Volatile Organic Compounds 624-Purgeable Organics Volatile Compounds by Azeotropic Distillation

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

20

Digitally signed by Randy Horton Date: 2017.03.02 10:49:28 -07:00

<b>ENERGY</b>	Trust our People. Trust our Data.	Billings, MT 800.735.4489 • Casper, WY 888.235.0515
1 0413 11-6° 112 \$	www.energylab.com	College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711
CLIENT:	Colorado Analytical Laboratories Inc	
Project:	170217005 LFH-1 CO-0121724	<b>Report Date: 03/02/17</b>

**CASE NARRATIVE** 

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Work Order:

C17020566



#### LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch **Client:** Colorado Analytical Laboratories Inc Report Date: 03/02/17 Project: 170217005 LFH-1 CO-0121724 Collection Date: 02/16/17 Lab ID: C17020566-001 DateReceived: 02/21/17 Client Sample ID: 170217005-01 LFH-1 Matrix: Drinking Water MCL/ Analyses **Result Units** Qualifiers RL QCL Method Analysis Date / By VOCS BY AZEOTROPIC DISTILLATION 1.4-Dioxane ND ug/L 1.0 SW8260M 02/27/17 11:16 / eli-b - Analysis by direct aqueous injection of the sample distillate. A deuterated version of 1,4-Dioxane was added to the sample prior to distillation and used to quantitate the 1.4-Dioxane and account for any variations in the analysis or distillation. VOLATILE ORGANIC COMPOUNDS Acetone ND ug/L 20 E624 02/24/17 19:19 / eli-b Acetonitrile ND ug/L 20 E624 02/24/17 19:19 / eli-b Acrolein ND ug/L 20 F624 02/24/17 19:19 / eli-b Acrylonitrile ND ug/L 20 E624 02/24/17 19:19 / eli-b Benzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Bromobenzana ND ug/L 1.0 E624 02/24/17 19:19 / ell-b Bromochloromethane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Bromodichloromethane E624 ND ug/L 1.0 02/24/17 19:19 / eli-b Bromoform ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Bromomethane ND ug/L E624 1.0 02/24/17 19:19 / eli-b Carbon disulfide ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Carbon tetrachloride ug/L ND E624 1.0 02/24/17 19:19 / eli-b Chlorobenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Chlorodibromomethane ND 1.0 ug/L E624 02/24/17 19:19 / eli-b Chloroethane ND ug/L 1.0 02/24/17 19:19 / ell-b E624 2-Chloroethyl vinvl ether ug/L ND 1.0 E624 02/24/17 19:19 / eli-b Chloroform ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Chloromethane ug/L ND 1.0 E624 02/24/17 19:19 / eli-b 2-Chlorotoluene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 4-Chlorotoluene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1.2-Dibromoethane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Dibromomethane ug/L ND 1.0 E624 02/24/17 19:19 / ell-b 1,2-Dichlorobenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1.3-Dichlorobenzene ug/L E624 ND 1.0 02/24/17 19:19 / eli-b 1.4-Dichlorobenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Dichlorodifluoromethane ug/L E624 ND 10 02/24/17 19:19 / eli-b 1.1-Dichloroethane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1.2-Dichloroethane ug/L 1.0 ND E624 02/24/17 19:19 / eli-b 1.1-Dichloroethene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b cis-1,2-Dichloroethene ND ug/L 1.0 E624 02/24/17 19:19 / ell-b trans-1,2-Dichloroethene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1,2-Dichloropropane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1,3-Dichloropropane 02/24/17 19:19 / eli-b ND ug/L 1.0 E624 2,2-Dichloropropane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1,1-Dichloropropene ND ug/L E624 1.0 02/24/17 19:19 / eli-b cis-1,3-Dichloropropene ND ug/L E624 1.0 02/24/17 19:19 / eli-b trans-1,3-Dichloropropene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Ethylbenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:Colorado Analytical Laboratories IncProject:170217005 LFH-1 CO-0121724Lab ID:C17020566-001Client Sample ID:170217005-01 LFH-1

Report Date: 03/02/17 Collection Date: 02/16/17 DateReceived: 02/21/17 Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL.	MCL/ QCL Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS		um/i		2.0	5604	02/24/17 19:19 / eli-b
Methyl tert-butyl ether (MTBE) Methyl ethyl ketone		ug/L ug/L		2.0	E624 E624	
		-		20		02/24/17 19:19 / eli-b
Methyl isobutyl ketone		ug/L		10	E624	02/24/17 19:19 / eli-b
Methylene chloride		ug/L		1.0	E624	02/24/17 19:19 / eli-b
Naphthalene		ug/L		0.50	E624	02/24/17 19:19 / eli-b
Styrene	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Tetrachloroethene		ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	E624	02/24/17 19:19 / ell-b
Toluene		•		1.0	E624	02/24/17 19:19 / ell-b
Trichioroethene		ug/L		1.0	E624	02/24/17 19:19 / slī-b
1,1,1-Trichloroethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,1,2-Trichloroethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Trichlorofluoromethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,2,3-Trichloropropane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Vinyl Acetate	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Vinyl chloride	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
m+p-Xylenes	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
o-Xylene	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Xvienes, Total	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Surr: 1,2-Dichloroethane-d4		%REC		71-139	E624	02/24/17 19:19 / eli-b
Surr: p-Bromofluorobenzene	92.0	%REC		80-127	E624	02/24/17 19:19 / eli-b
Surr: Toluene-d8		%REC		80-123	E624	02/24/17 19:19 / eli-b
SEMI-VOLATILE ORGANIC COMPOU	JNDS					
Acenaphthene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Acenaphthylene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Anthracene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Azobenzene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Benzidine		ug/L		10	E625	02/28/17 13:13 / eli-b
Benzo(a)anthracene		ug/L		10	E625	02/27/17 19:27 / eli-b
Berizo(a)pyrene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(b)fluoranthene		ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(g,h,i)perylene		ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(k)fluoranthene		ug/L		10	E625	02/27/17 19:27 / eli-b
4-Bromophenyl phenyl ether		ug/L		10	E625	02/27/17 19:27 / eli-b
Butylbenzyiphthalate		ug/L		10	E625	02/27/17 19:27 / eli-b
4-Chloro-3-methylphenoi		ug/L		10	E625	02/27/17 19:27 / eli-b
bis(-2-chloroethoxy)Methane	ND	-		10	E625	02/27/17 19:27 / eli-b
bis(-2-chloroethyl)Ether		-		10	E625	
bis(-2-chloroisopropyi)Ether	ND	-				02/27/17 19:27 / eli-b
	ND	+		10	E625	02/27/17 19:27 / eli-b
2-Chloronaphthaiene	ND			10	E625	02/27/17 19:27 / eli-b
2-Chlorophenol	ND	ug/L		10	E625	02/27/17 19:27 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality contro! limit. MCL - Maximum contaminant level.



#### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

 Client:
 Colorado Analytical Laboratories Inc

 Project:
 170217005 LFH-1 CO-0121724

 Lab ID:
 C17020566-001

 Client Sample ID:
 170217005-01 LFH-1

Report Date: 03/02/17 Collection Date: 02/16/17 DateReceived: 02/21/17 Matrix: Drinking Water

			_	-	MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL M	ethod	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS							
4-Chlorophenyl phenyl ether		ug/L		10	F	625	02/27/17 19:27 / eli-b
Chrysene		ug/L		10	-	625	02/27/17 19:27 / eli-b
Diethyl phthalate	ND	ug/L		10	_	625	02/27/17 19:27 / eli-b
Di-n-butyl phthalate	ND	ug/L		10		625	02/27/17 19:27 / eli-b
1.2-Dichlorobenzene	ND	ug/L		10		625	02/27/17 19:27 / eli-b
1,3-Dichlorobenzene	ND	-		10		825	02/27/17 19:27 / ell-b
1.4-Dichlorobenzene	ND	-		10		625	02/27/17 19:27 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10		625 625	02/27/17 19:27 / eli-b
	ND	-+		10		825 825	02/27/17 19:27 / ell-b
2,4-Dichlorophenol		ug/L			_		
Dimethyl phthalate	ND	ug/L		10		625	02/27/17 19:27 / eli-b
Di-n-octyl phthalate	ND	ug/L		10		625	02/27/17 19:27 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10		625	02/27/17 19:27 / eli-b
2,4-Dimethylphenol	ND	ug/L		10		625	02/27/17 19:27 / eli-b
4,6-Dinitro-2-methylphenol	ND	•		50		625	02/27/17 19:27 / eli-b
2,4-Dinitrophenol	ND	ug/L		50		325	02/27/17 19:27 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10		525	02/27/17 19:27 / ell-b
2,6-Dinitrotoluene	ND	ug/L		10	_	525	02/27/17 19:27 / eli-b
ois(2-ethylhexy/)Phthalate	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
Fluoranthene	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
Fluorene	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
Hexachlorobenzene	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
-lexachlorobutadiene	ND	ug/L		10	E	62 <del>5</del>	02/27/17 19:27 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10	Ef	325	02/27/17 19:27 / eli-b
Hexachloroethane	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
ndeno(1,2,3-cd)pyrene	ND	-		10	E	525	02/27/17 19:27 / eli-b
sophorone	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10	E	<del>3</del> 25	02/27/17 19:27 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10		525	02/27/17 19:27 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10		325	02/27/17 19:27 / eli-b
2-Nitrophenol	ND	ug/L		10		325	02/27/17 19:27 / elí-b
4-Nitrophenol	ND	ug/L		50		525	02/27/17 19:27 / eli-b
Naphthalene	ND	ug/L		10		325	02/27/17 19:27 / eli-b
Nitrobenzene	ND	ug/L		10		325	02/27/17 19:27 / eli-b
Pentachiorophenol	ND	ug/L		50		525 525	02/27/17 19:27 / eli-b
Phenanthrene		_		10		525 525	02/27/17 19:27 / eli-b
-nenanmiene Phenol		ug/L		10		625	02/27/17 19:27 / eli-b
		ug/L		10		525	02/27/17 19:27 / eli-b
		ug/L					
		ug/L		10		325 205	02/27/17 19:27 / eli-b
2,4,6-Trichlorophenol		ug/L		10		325	02/27/17 19:27 / eli-b
Surr: 2-Fluorobiphenyi		%REC		28-107		525 Soc	02/27/17 19:27 / eli-b
Surr: 2-Fluorophenol		%REC		20-56		625	02/27/17 19:27 / eli-b
Surr: Nitrobenzene-d5		%REC		32-94		325	02/27/17 19:27 / eli-b
Surr: Phenol-d5	33.0	%REC		19-45	E	625	02/27/17 19:27 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



#### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	03/02/17
Project:	170217005 LFH-1 CO-0121724	Collection Date:	02/16/17
Lab ID:	C17020566-001	DateReceived:	02/21/17
<b>Client Sample ID:</b>	170217005-01 LFH-1	Matrix:	Drinking Water

			MCLI	
Analyses	<b>Result Units</b>	Qualifiers RL	QCL Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMP	OUNDS			
Surr: Terphenyl-d14	69.0 %REC	32-122	E625	02/27/17 19:27 / eli-b
Surr: 2,4,6-Tribromophenol	60.0 %REC	21-130	E625	02/27/17 19:27 / eli-b

The sample was received past the extraction prep hold time. The prep hold time was exceeded by 4.31 days.

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories inc

Project: 170217005 LFH-1 CO-0121724

#### Report Date: 03/02/17 Work Order: C17020566

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E624							An	alytical Run:	R275391
Lab ID:	ccv022417	Continuing Ca	libration \	erification Standa	rd				02/24	/17 09:51
Acetone		40.8	ug/L	20	82	70	130			
Acetonitrile	•	60.0	ug/L	20	120	70	130			
Acrolein		59.2	ug/L	20	118	70	130			
Acrylonitrile	e	46.4	ug/L	20	93	70	130			
Benzene		4.80	ug/L	0.50	96	70	130			
Bromobenz		4,56	ug/L	0.50	91	70	130			
Bromochlo		4,64	ug/L	0.50	93	70	130			
Bromodich	loromethane	4.08	ug/L	0.50	82	70	130			
Bromoform	I	4.08	ug/L	0.50	82	70	130			
Bromometh		5.56	ug/L	0.50	111	70	130			
Carbon dis		4.80	ug/L	0.50	96	70	130			
Carbon tetr		3.70	ug/L	0.50	74	70	130			
Chiorobenz		4.80	ug/L	0.50	96	70	130			
	momethane	4.32	ug/L	0.50	86	70	130			
Chloroetha		4.88	ug/L	0.50	98	70	130			
	nyl vinyi ether	3.07	ug/L	1.0	61	70	130			S
Chloroform		4.36	ug/L	0.50	87	70	130			
Chlorometh		4.60	ug/L	0.50	92	70	130			
2-Chlorotol		4.84	ug/L	0.50	97	70	130			
4-Chiorotol		4.80	ug/L	0.50	96	70	130			
1,2-Dibrom		4.40	ug/L	0.50	88	70	130			
Dibromome		4.60	ug/L	0.50	92	70	130			
1,2-Dichlor		4.72	ug/L	0.50	94	70	130			
1,3-Dichlor		4.84	ug/L	0.50	97	70	130			
1,4-Dichlord		4.76	ug/L	0.50	95	70	130			
	uoromethane	3.87	ug/L	0.50	77	70	130			
1,1-Dichlord		4.40	ug/L	0.50	88	70	130			
1,2-Dichlord		3.78	ug/L	0.50	76	70	130			
1,1-Dichlord cis-1,2-Dich		4.20	ug/L	0.50	84	70	130			
	ichioroethene	4.72 4.64	ug/L	0.50 0. <del>5</del> 0	94 93	70	130			
1,2-Dichlord		5.20	ug/L	0.50	104	70	130			
1,3-Dichlord		4.64	ug/L ug/L	0.50	93	70 70	130 130			
2,2-Dichlord		3.92	ug/L	0.50	78	70	130			
1,1-Dichlore		4.40	ug/L	0.50	88	70	130			
	nloropropene	4.56	ug/L	0.50	91	70	130			
	ichloropropene	4.04	ug/L	0.50	81	70	130			
Ethylbenzer		4.84	ug/L	0.50	97	70	130			
-	butyl ether (MTBE)	3.68	ug/L	0.50	74	70	130			
Methyl ethy		42.8	ug/L	20	86	70	130			
Methyl isob		45.6	ug/L	20	91	70	130			
Methylene o		5.44	ug/L	0.50	109	70	130			
Naphthalen		4.88	ug/L	0.50	98	70	130			
					_					

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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# **QA/QC Summary Report**

Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD RPDLimit Qual
Method: E624							Analytical Run: R275391
Lab ID: ccv022417	Continuing Ca	libration Ver	ification Standa	ard			02/24/17 09:51
Styrene	4.76	ug/L	0.50	95	70	130	
Tetrachloroethene	4.60	ug/L	0.50	92	70	130	
1, 1, 1, 2-Tetrachloroethane	4.24	ug/L	0.50	85	70	130	
1, 1, 2, 2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130	
Toluene	4.96	ug/L	0.50	99	70	130	
Trichloroethene	4.80	ug/L	0.50	96	70	130	
1,1,1-Trichloroethane	3.75	ug/L	0.50	75	70	130	
1,1,2-Trichloroethane	4.76	ug/L	0.50	95	70	130	
Trichlorofluoromethane	3.34	ug/L	0.50	67	70	130	S
1,2,3-Trichloropropane	4.20	ug/L	0.50	84	70	130	
Vinyl Acetate	4.56	ug/L	1.0	91	70	130	
Vinyl chloride	4.84	ug/L	0.50	97	70	130	
m+p-Xylenes	9.76	ug/L	0.50	98	70	130	
o-Xylene	4.76	ug/L	0.50	95	70	130	
Xylenes, Total	14.5	ug/L	0.50	97	70	130	
Surr: 1,2-Dichloroethane-d4			0.50	74	71	139	
Surr: p-Bromofluorobenzene			0.50	88	80	127	
Surr: Toluene-d8			0.50	92	80	123	
Method: E624							Batch: R275391
Lab ID:  cs022417	Laboratory Co	-				A.I_170224A	02/24/17 10:31
Acetone	41.6	ug/L	20	83	55	144	
Acetonitrile	60.4	ug/L	20	121	54	142	
Acrolein	49.6	ug/L	20	99	16	233	
Acrylonitrile	46.0	ug/L	20	92	76	127	
Benzene	4.96	ug/L	0.50	99	73	122	
Bromobenzene	4.76	ug/L	0.50	95	74	129	
Bromochloromethane	4.64	ug/L	0.50	93	66	120	
Bromodichioromethane	4.44	ug/L	0.50	89	74	128	
Bromoform	4.36	ug/L	0.50	87	66	128	
Bromomethane	5.76	ug/L	0.50	115	51	123	
Carbon disulfide	4.92	ug/L	0.50	98	46	145	
Carbon tetrachloride	3.80	ug/L	0.50	76	75	125	
Chiorobenzene	4.92	u <b>g</b> /L	0.50	98	80	123	
Chlorodibromomethane	4.64	ug/L	0.50	93	74	125	
Chloroethane	5.04	ug/L	0.50	101	59	142	
2-Chloroethyl vinyl ether Chloroform	2.74	ug/L	1.0	55 88	36	144	
Chloroform	4.40	ug/L	0.50	88	68 53	124	
Chloromethane 2-Chlorotoluene	4.64 5.04	ug/L	0.50 0.50	93 101	53 75	14 <del>6</del> 131	
4-Chiorotoluene	4.68	ug/L	0.50	94	75 74	129	
1,2-Dibromoethane	4.66	ug/L	0.50	94 88	7 <del>4</del> 76	129	
		ug/L					
Dibromomethane	4.76	ug/L	0.50	95	77	125	

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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# **QA/QC Summary Report**

Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R27539
Lab (D: Ics022417	Laboratory Con	trol Sample			Run: 5971/	A.I_170224A		02/24	/17 10:3
1,2-Dichlorobenzene	4.80	ug/L	0.50	96	74	124			
1,3-Dichlorobenzene	5.00	ug/L	0.50	100	77	122			
1,4-Dichlorobenzene	4.80	ug/L	0.50	96	76	126			
Dichlorodifluoromethane	4.36	ug/L	0.50	87	56	146			
1,1-Dichloroethane	4.56	ug/L	0.50	<del>9</del> 1	74	133			
1,2-Dichloroethane	3.76	ug/L	0.50	75	75	129			
1,1-Dichloroethene	4.28	ug/L	0.50	86	74	132			
cis-1,2-Dichloroethene	4.76	ug/L	0.50	95	81	122			
trans-1,2-Dichloroethene	5.08	ug/L	0.50	102	79	143			
1,2-Dichloropropane	5.20	ug/L	0.50	104	75	126			
1,3-Dichloropropane	4.32	ug/L	0.50	86	71	136			
2,2-Dichloropropane	4.00	ug/L	0.50	80	68	142			
1, 1-Dichloropropene	4.16	ug/L	0.50	83	70	131			
cis-1,3-Dichloropropene	4.12	ug/L	0.50	82	74	135			
trans-1,3-Dichloropropene	3.96	ug/L	0.50	79	76	149			
Ethylbenzene	4.92	ug/L	0.50	98	72	130			
Methyl tert-butyl ether (MTBE)	3.71	ug/L	0.50	74	72	120			
Methyl ethyl ketone	45.2	ug/L	20	90	45	130			
Methyl isobutyl ketone	49.2	ug/L	20	98	58	135			
Methylene chloride	5.64	ug/L	0.50	113	66	142			
Naphthalene	5.44	ug/L	0.50	109	69	124			
Styrene	4.84	ug/L	0.50	97	80	124			
Tetrachloroethene	4.68	ug/L	0.50	94	72	131			
1,1,1,2-Tetrachloroethane	4.16	ug/L	0.50	83	78	124			
1,1,2,2-Tetrachloroethane	4.72	ug/L	0.50	94	68	137			
Toluene	5.16	ug/L	0.50	103	72	135			
Trichloroethene	4.80	ug/L	0.50	96	85	135			
1,1,1-Trichloroethane	3.73	ug/L	0.50	30 75	63	120			
1,1,2-Trichloroethane	4.68		0.50	94					
Trichlorofluoromethane		ug/L	0.50	94 66	78	124			•
1,2,3-Trichloropropane		ug/L	0.50	81	72	120			S
Vinyl Acetate		ug/L		82	64	138			
Vinyl chloride		ug/L	1.0		31	124			
m+p-Xylenes		ug/L	0.50	102	58	140			
o-Xylene		ug/L	0.50	98	67	139			
		ug/L	0.50	97	74	135			
Xylenes, Total	14.7	ug/L	0.50	98	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	72	71	139			
Surr: p-Bromofluorobenzene			0.50	87	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: bik022417	Method Blank				Run: 5971A	.I_170224A		02/24/	17 11:30
Acetone		ug/L	20						
Acetonitrile	ND	ug/L	20						

#### Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories inc

#### Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte	Result	Units	RĹ	%REC Low Limit High Li	mit RPD	RPDLimit	Qual
Method: E624						Batch:	R275391
Lab ID: bik022417	Method Blank			Run: 5971A.I_17022	4A	02/24	/17 11:30
Acrolein	ND	ug/L	20	-			
Acrylonitrile	ND	ug/L	3.0				
Benzene	ND	ug/L	0.50				
Bromobenzene	ND	ug/L	0.50				
Bromochloromethane	ND	ug/L	0.50				
Bromodichloromethane	ND	ug/L	0.50				
Bromoform	ND	ug/L	0.50				
Bromomethane	ND	ug/L	0.50				
Carbon disulfide	ND	ug/L	0.50				
Carbon tetrachloride	ND	ug/L	0.50				
Chlorobenzene	ND	ug/L	0.50				
Chlorodibromomethane	ND	ug/L	0.50				
Chloroethane	ND	ug/L	0.50				
2-Chloroethyl vinyl ether	ND	ug/L	1.0				
Chieroform	ND	ug/L	0.50				
Chloromethane	ND	ug/L	0.50				
2-Chlorotoluene	ND	ug/L	0.50				
4-Chlorotoluene	ND	ug/L	0.50				
1,2-Dibromoethane	ND	ug/L	0.50				
Dibromomethane	ND	ug/L	0.50				
1,2-Dichlorobenzene	ND	ug/L	0.50				
1,3-Dichlorobenzene	ND	ug/L	0.50				
1,4-Dichlorobenzene	ND	ug/L	0.50				
Dichlorodifiuoromethane	ND	ug/L	0.50				
1,1-Dichlorcethane	ND	ug/L	0.50				
1,2-Dichloroethane	ND	ug/L	0.50				
1,1-Dichloroethene	ND	ug/L	0.50				
cis-1,2-Dichloroethene	ND	ug/L	0.50				
trans-1,2-Dichloroethene	ND	ug/L	0.50				
1,2-Dichloropropane	ND	ug/L	0.50				
1,3-Dichloropropane	ND	ug/L	0.50				
2,2-Dichloropropane	ND	ug/L	0.50				
1,1-Dichloropropene	ND	ug/L	0.50				
cis-1,3-Dichioropropene	ND	ug/L	0.30				
trans-1,3-Dichloropropene	ND	ug/L	0.30				
Ethylbenzene	ND	ug/L	0.50				
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50				
Methyl ethyl ketone	ND	ug/L	20				
Methyl isobutyl ketone	ND	ug/L	20				
Methylene chloride	ND	ug/L	0.50				
Naphthalene	ND	ug/L	0.50				
Styrene	ND	ug/L	0.50				
Tetrachloroethene	ND	ug/L	0.50				

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc.

#### Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E624								Batch:	R27539
Lab ID:	bik022417	Method Blank				Run: 5971/	A.I_170224A		02/24	/17 11:30
1,1,1,2-Tet	rachloroethane	ND	ug/L	0.50						
1, 1, 2, 2-Tet	rachloroethane	ND	ug/L	0.50						
Toluene		ND	ug/L	0.50						
Trichloroeth	hene	ND	ug/L	0.50						
1, 1, 1-Trichi	loroethane	ND	ug/L	0.50						
1,1,2-Trichi	loroethane	ND	ug/L	0.50						
Trichloroflu	oromethane	ND	ug/L	0.50						
1,2,3-Trichi	loropropane	ND	ug/L	0.50						
Vinyl Aceta	ite	ND	ug/L	1.0						
Vinyl chlorid	de	ND	ug/L	0.40						
m+p-Xylene	es	ND	ug/L	0.50						
o-Xylene		ND	ug/L	0.50						
Xylenes, To	otal	ND	ug/L	0.50						
-	-Dichloroethane-d4		•	0.50	74	71	139			
	Bromofluorobenzene			0.50	90	80	127			
Surr: Tol	uene-d8			0.50	94	80	123			
Lab ID:	b17021110-001bms	Sample Matrix	Spike			Run: 5971/	A.I_170224A		02/24	/17 20:47
Acrolein		ND	ug/L	20	0	16	233			S 1
Acrylonitrile		48.8	ug/L	20	98	76	127			
2-Chloroeth	nyi vinyi ether	3.44	ug/L	1.0	69	36	144			
	-Dichloroethane-d4		•	0.50	80	71	139			
	Iromofluorobenzene			0.50	95	80	127			
Surr: Tol	uene-d8			0.50	100	80	123			
- 1 = This is with the san	a known very reactive compour nple matrix.	nd. The recovery of	this compound was n	ormal in th	e Laborat	ory Control Sa	mple (LCS). The o	compound	appears to hav	/e reacted
Lab ID:	b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 59714	.[_170224A		02/24/	/17 21:16
Acrolein		ND	ug/L	20	0	16	233		20	S 1
Acrylonitrile	•	48.8	ug/L	20	98	76	127	0.0	20	
-	yl vinyl ether	3.66	ug/L	1.0	73	36	144	6.1	20	
	-Dichloroethane-d4		-	0.50	81	71	139			
Surr. p-B	romofluorobenzene			0.50	96	80	127			
Surr: Tol				0.50	99	80	123			
	a known very reactive compour	nd. The recovery of t	this compound was n	ormal in th	e Laborate	ory Control Sar	mple (LCS). The d	compound	appears to hav	/e reacted
	b17021110-001bms	Sample Matrix	Spike			Run: 5971A	.I_170224A		02/24/	/17 18:21
Lab ID:		40.4	ug/L	20	81	55	144			
		66.0	ug/L	20	132	54	142			
Acetone				0.50	92	73	122			
Acetone Acetonitrile		4.60	ug/L							
Acetone Acetonitrile Benzene			ug/L ug/L	0.50	92	74	129			
Acetone Acetonitrile Benzene Bromobenz	ene	4.60				74 66	129 120			
Acetone Acetonitrile Benzene Bromobenz Bromochlor	ene	4.60 4.60	ug/L	0.50	92					
Lab ID: Acetone Acetonitrile Benzene Bromobenz Bromochlor Bromodichle Bromoform	rene romethane oromethane	4.60 4.60 4.56	ug/L ug/L	0.50 0.50	92 91	66	120			

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

#### Report Date: 03/02/17 Work Order: C17020566

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch	: R275391
Lab ID: b17	021110-001bms	Sample Matri	k Spike			Run: 5971/	A.I_170224A		02/24	4/17 18:21
Carbon disulfide		5.12	ug/L	0.50	102	46	145			
Carbon tetrachlori	de	3.59	ug/L	0.50	72	75	125			S
Chlorobenzene		4.52	ug/L	0.50	90	80	123			
Chlorodibromome	thane	4.52	ug/L	0.50	90	74	125			
Chloroethane		5.40	ug/L	0.50	108	59	142			
Chloroform		4.68	ug/L	0.50	82	68	124			
Chloromethane		4.64	ug/L	0.50	93	53	146			
2-Chiorotoluene		4.88	ug/L	0.50	98	75	131			
4-Chlorotoluene		4.68	ug/L	0.50	94	74	129			
1,2-Dibromoethan	e	4.16	ug/L	0.50	83	76	124			
Dibromomethane		4.64	ug/L	0.50	93	77	125			
1,2-Dichlorobenze	ne	4.64	ug/L	0,50	93	74	124			
1,3-Dichlorobenze	ne	4.88	ug/L	0.50	98	77	122			
1,4-Dichlorobenze	ne	4.76	ug/L	0.50	91	76	126			
Dichlorodifluorome	ethane	4.32	ug/L	0.50	86	56	146			
1,1-Dichloroethan	8	4.24	ug/L	0.50	85	74	133			
1,2-Dichloroethan	9	3.48	ug/L	0.50	70	75	129			S
1,1-Dichloroethen	9	4.12	ug/L	0.50	82	74	132			
cis-1,2-Dichloroeth	iene	4.48	ug/L	0.50	90	81	122			
trans-1,2-Dichloro	ethene	4.64	ug/L	0.50	93	79	143			
1,2-Dichloropropa	ne	4.92	ug/L	0.50	98	75	126			
1,3-Dichloropropa	ne	4.24	ug/L	0.50	85	71	136			
2,2-Dichloropropa	ne	3.60	ug/L	0.50	72	68	142			
1,1-Dichloroproper	ne	4.04	ug/L	0.50	81	70	131			
cis-1,3-Dichloropro		4.08	ug/L	0.50	82	74	135			
trans-1,3-Dichlorop	propene	3.97	ug/L	0.50	79	76	149			
Ethylbenzene		4.64	ug/L	0.50	93	72	130			
Methyl tert-butyl et	her (MTBE)	3.63	ug/L	0.50	73	72	120			
Methyl ethyl keton		44.4	ug/L	20	89	45	130			
Methyl isobutyl ket	one	51.2	ug/L	20	102	58	135			
Methylene chloride	ļ	5.44	ug/L	0.50	109	66	142			
Naphthalene		4.84	ug/L	0.50	97	69	124			
Styrene		4.56	ug/L	0.50	91	80	124			
Tetrachloroethene		4.44	ug/L	0.50	89	72	131			
1,1,1,2-Tetrachlord		3.95	ug/L	0.50	79	78	124			
1,1,2,2-Tetrachloro	ethane	4.88	ug/L	0.50	98	68	137			
Toluene		4.88	ug/L	0.50	98	72	135			
Trichloroethene		4.56	ug/L	0. <del>5</del> 0	91	85	126			
1,1,1-Trichloroetha		3.51	ug/L	0.50	70	63	120			
1,1,2-Trichloroetha		4.52	ug/L	0.50	90	78	124			
Trichlorofluoromet		3.29	ug/L	0.50	66	72	120			S
1,2,3-Trichloroprop	ane	3.90	ug/L	0. <del>5</del> 0	78	64	138			
Vinyl Acetate		4.00	ug/L	1.0	80	31	124			

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R27539
Lab ID: b17021110-001bms	Sample Matri	k Spike		Run: 5971A.I_170224A				02/24	/17 18:21
Vinyl chloride	5.12	ug/L	0.50	102	58	140			
m+p-Xylenes	9.32	ug/L	0.50	93	67	139			
o-Xylene	4.44	ug/L	0.50	89	74	135			
Xylenes, Total	13.8	ug/L	0.50	92	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	80	71	139			
Surr: p-Bromofluorobenzene			0.50	94	80	127			
Surr: Toluene-d8			0.50	101	80	123			
Lab ID: b17021110-001bmsd	Sample Matrix	k Spike Duplicate			Run: 5971,	A.I_170224A		02/24	/17 18:50
Acetone	44.0	ug/L	20	88	55	144	8.5	20	
Acetonitrile	65.6	ug/L	20	131	54	142	0.6	20	
Benzene	5.04	ug/L	0.50	101	73	122	9.1	20	
Bromobenzene	4.96	ug/L	0.50	99	74	129	7.5	20	
Bromochloromethane	4.80	ug/L	0.50	96	66	120	5.1	20	
Bromodichloromethane	4.60	ug/L	0.50	92	74	128	5.4	20	
Bromoform	4.80	ug/L	0.50	96	66	128	8.7	20	
Bromomethane	6.00	ug/L	0.50	120	51	123	2.0	20	
Carbon disulfide	5.20	ug/L	0.50	104	46	145	1.6	20	
Carbon tetrachloride	3.97	ug/L	0.50	79	75	125	10	20	
Chlorobenzene	4.88	ug/L	0.50	98	80	123	7.7	20	
Chlorodibromomethane	4.76	ug/L	0.50	95	74	125	5.2	20	
Chloroethane	5.32	ug/L	0.50	106	59	142	1.5	20	
Chioroform	4.96	ug/L	0.50	87	68	124	5.8	20	
Chloromethane	4.88	ug/L	0.50	98	53	146	5.0	20	
2-Chlorotoluene	5.20	ug/L	0.50	104	75	131	6.3	20	
4-Chlorotoluene	5.04	ug/L	0.50	101	74	129	7.4	20	
1.2-Dibromoethane	4.52	ug/L	0.50	90	76	124	8.3	20	
Dibromomethane	4.88	ug/L	0.50	98	77	125	5.0	20	
1,2-Dichlorobenzene	5.04	ug/L	0.50	101	74	124	8.3	20	
1,3-Dichlorobenzene	5.20	ug/L	0.50	104	77	122	6.3	20	
1.4-Dichiorobenzene	5.12	ug/L	0.50	98	76	126	7.3	20	
Dichlorodifluoromethane	4.36	ug/L	0.50	87	56	148	0.9	20	
1,1-Dichloroethane	4.68	ug/L	0.50	94	74	133	9.9	20	
1,2-Dichloroethane	3.76	ug/L	0.50	75	75	129	7.8	20	
1,1-Dichloroethene	4.44	ug/L	0.50	89	74	132	7.5	20	
cis-1,2-Dichloroethene	4.88	ug/L	0.50	98	81	122	8.5	20	
trans-1,2-Dichioroethene	5.12	ug/L	0.50	102	79	143	9.8	20	
1,2-Dichloropropane	5.24	ug/L	0.50	102	75	126	6.3	20	
1,3-Dichloropropane	4.64	ug/L	0.50	93	71	136	9.0	20	
	3.96	ug/L	0.50	79	68	142	9.6	20	
2,2-Dichloropropane	3.90 4.44	ug/L	0.50	89	70	142	9.4	20	
1,1-Dichloropropene	4.44	-	0.50	88	70		9.4 7.5	20	
cis-1,3-Dichloropropene		ug/L				135			
trans-1,3-Dichloropropene	4.24	ug/L	0.50	85	76	149	6.6	20	

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc.

Project: 170217005 LFH-1 CO-0121724

#### Report Date: 03/02/17 Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R275391
Lab ID: b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 5971	A.I_170224A		02/24	/17 18:50
Ethylbenzene	5.00	ug/L	0.50	100	72	130	7.5	20	
Methyl tert-butyl ether (MTBE)	3.83	ug/L	0.50	77	72	120	5.5	20	
Methyi ethyl ketone	46.0	ug/L	20	92	45	130	3.5	20	
Methyl isobutyl ketone	51.2	ug/L	20	102	58	135	0.0	20	
Methylene chloride	5.72	ug/L	0.50	114	66	142	5.0	20	
Naphthalene	5.56	ug/L	0.50	111	69	124	14	20	
Styrene	4.84	ug/L	0.50	97	80	124	6.0	20	
Tetrachloroethene	4.72	ug/L	0.50	94	72	131	6.1	20	
1,1,1,2-Tetrachloroethane	4.20	ug/L	0.50	84	78	124	6.1	20	
1,1,2,2-Tetrachloroethane	5.20	ug/L	0.50	104	68	137	6.3	20	
Toluene	5.12	ug/L	0.50	102	72	135	4.8	20	
Trichloroethene	4.80	ug/L	0.50	96	85	126	5.1	20	
1,1,1-Trichloroethane	3.94	ug/L	0.50	79	63	120	12	20	
1,1,2-Trichioroethane	4.76	ug/L	0.50	95	78	124	5.2	20	
Trichlorofluoromethane	3.36	ug/L	0.50	67	72	120	2.3	20	S
1,2,3-Trichloropropane	4.20	ug/L	0.50	84	64	138	7.4	20	
Vinyl Acetate	4.20	ug/L	1.0	84	31	124	4.9	20	
Vinyl chloride	5.08	ug/L	0.50	102	58	140	0.8	20	
m+p-Xylenes	9.92	ug/L	0.50	99	67	139	6.2	20	
o-Xylene	4.80	ug/L	0.50	96	74	135	7.8	20	
Xylenes, Total	14.7	ug/L	0.50	98	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	81	71	139			
Surr: p-Bromofluorobenzene			0.50	94	80	127			
Surr: Toluene-d8			0.50	100	80	123			

#### Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

#### Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Bato	h: 107004
Lab ID:	MB-107004	Method Blank				Run: SV59	73N2.I_170227B	i	02/27	7/17 18:24
Acenaphthe	ane	ND	ug/L	10			_			
Acenaphthy	/iene	ND	ug/L	10						
Anthracene	•	ND	ug/L	10						
Azobenzen	e	ND	ug/L	10						
Benzo(a)an	thracens	ND	ug/L	10						
Benzo(a)py	rene	ND	ug/L	10						
Benzo(b)flu	oranthene	ND	ug/L	10						
Benzo(g,h,i	)perylene	ND	ug/L	10						
Benzo(k)fiu	oranthene	ND	ug/L	10						
4-Bromoph	enyl phenyl ether	ND	ug/L	10						
Butylbenzyl	phthalate	ND	ug/L	10						
4-Chloro-3-	methylphenol	ND	ug/L	10						
bis(-2-chion	oethoxy)Methane	ND	ug/L	10						
bis(-2-chlore	oethyl)Ether	ND	ug/L	10						
bis(2-chlora	isopropyi)Ether	ND	ug/L	10						
2-Chlorona	phthalene	ND	ug/L	10						
2-Chloroph	enol	ND	ug/L	10						
4-Chlorophe	enyl phenyl ether	ND	ug/L	10						
Chrysene		ND	ug/L	10						
Diethyl phth		ND	ug/L	10						
Di-n-butyl p	hthalate	ND	ug/L	10						
1,2-Dichloro	benzene	ND	ug/L	10						
1,3-Dichloro	benzene	ND	ug/L	10						
1,4-Dichlord	benzene	ND	u <b>g</b> /L	10						
3,3'-Dichlor	obenzidine	ND	ug/L	10						
2,4-Dichloro	-	ND	ug/L	10						
Dimethyl ph	thalate	ND	ug/L	10						
Di-n-octyl pl	hthalate	ND	ug/L	10						
	i)anthracene	ND	ug/L	10						
2,4-Dimethy		ND	ug/L	10						
	2-methylphenol	ND	ug/L	50						
2,4-Dinitrop		ND	ug/L	50						
2,4-Dinitroto		ND	ug/L	10						
2,6-Dinitroto		ND	ug/L	10						
	exyl)Phthalate	ND	ug/L	10						
Fluoranthen	е	ND	ug/L	10						
Fluorene		ND	ug/L	10						
Hexachlorot		ND	ug/L	10						
Hexachlorot		ND	ug/L	10						
	cyclopentadiene	ND	ug/L	10						
Hexachioroe		ND	ug/L	10						
Indeno(1,2,3	3-cd)pyrene	ND	ug/L	10						
Isophorone		ND	ug/L	10						

#### Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

#### Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte	Result L	Jnits RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batc	h: 107004
Lab ID: MB-107004	Method Blank			Run: SV59	73N2.I_170227B		02/27	7/17 18:24
n-Nitrosodimethylamine	ND u	ig/L 10			_			
n-Nitroso-di-n-propylamine	ND u	10 Ig/L						
n-Nitrosodiphenylamine	ND u	ig/L 10						
2-Nitrophenol	ND u	ig/L 10						
4-Nitrophenol	ND u	ig/L 50						
Naphthalene	ND u	g/L 10						
Nitrobenzene	ND u	<b>ig/L</b> 10						
Pentachlorophenol	ND u	g/L 50						
Phenanthrene	ND u	<b>g/L</b> 10						
Phenol	ND u	g/L 10						
Pyrene	ND u	g/L 10						
1,2,4-Trichlorobenzene	ND u	g/L 10						
2.4,6-Trichlorophenol	ND u	g/L 10						
Surr: 2-Fluorobiphenyl		10	55	28	107			
Surr: 2-Fluorophenol		10	36	20	56			
Surr: Nitrobenzene-d5		10	58	32	94			
Surr: Phenol-d5		10	35	19	45			
Surr: Terphenyl-d14		10	77	32	122			
Surr: 2,4,6-Tribromophenol		10	58	21	130			
Lab ID: LCS-107004	Laboratory Contro	I Sample		Run: SV59	73N2.I_170227B		02/27	/17 18:55
Acenaphthene	81.2 u	g/L 10	81	58	99			
Acenaphthylene	76.5 u	g/L 10	77	57	96			
Anthracene	79.5 u	g/L 10	80	60	107			
Azobenzene	79.3 u	g/L 10	79	56	100			
Benzo(a)anthracene	84.1 u	g/L 10	84	62	114			
Benzo(a)pyrene	80.1 u	g/L 10	80	62	108			
Benzo(b)fluoranthene	88.6 u	g/L 10	89	48	127			
Benzo(g,h,i)perylene	81.6 u	g/L 10	82	62	121			
Benzo(k)fluoranthene	79.2 u	g/L 10	79	55	111			
4-Bromophenyl phenyl ether	83.0 u	g/L 10	83	58	105			
Butylbenzylphthalate	91.6 u	g/L 10	92	60	113			
4-Chloro-3-methylphenol	65.7 L	g/L 10	66	53	92			
bls(-2-chloroethoxy)Methane	73.9 u	g/L 10	74	50	92			
bis(-2-chloroethyl)Ether	63.4 U	g/L 10	63	44	82			
bis(2-chloroisopropyl)Ether	61.2 u	g/L 10	61	56	87			
2-Chloronaphthalene	74.9 u	g/L 10	75	56	95			
2-Chlorophenol		g/L 10	60	47	76			
4-Chlorophenyl phenyl ether	75.8 u	g/L 10	76	58	99			
	81.9 u	g/L 10	82	63	106			
Chrysene								
Diethyl phthalate		g/L 10	79	58	103			
	78.6 u	g/L 10 g/L 10	79 88	58 61	103 110			

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E625								Batci	n: 107004	
Lab ID: LCS-107004	Laboratory Control Sample			Run: SV5973N2.1_170227E				02/27/17 18		
1,3-Dichlorobenzene	60.2	ug/L	10	60	41	79				
1,4-Dichlorobenzene	61.4	ug/L	10	61	42	79				
3,3'-Dichlorobenzídine	68.6	ug/L	10	69	51	93				
2,4-Dichlorophenol	64.7	ug/L	10	65	49	90				
Dimethyl phthalate	76.4	ug/L	10	76	58	104				
Di-n-octyl phthalate	88.3	u <b>g/L</b>	10	88	56	110				
Dibenzo(a,h)anthracene	80.4	ug/L	10	80	61	111				
2,4-Dimethylphenol	61.8	ug/L	10	62	45	89				
4,6-Dinitro-2-methylphenol	48.2	ug/L	50	48	37	105				
2,4-Dinitrophenol	39.7	ug/L	50	40	27	81				
2,4-Dinitrotoluene	87.7	ug/L	10	88	63	110				
2,6-Dinitrotoluene	75.5	⊥g/L	10	76	60	107				
bis(2-ethylhexyl)Phthalate		ug/L	10	89	56	108				
Fluoranthene		ug/L	10	84	63	110				
Fluorene		ug/L	10	77	60	99				
Hexachlorobenzene		ug/L	10	78	57	103				
Hexachlorobutadiene		⊥g/L	10	67	39	83				
Hexachlorocyclopentadiene		ıg/L	10	68	39	91				
Hexachloroethane		ıg/∟	10	60	37	75				
Indeno(1,2,3-cd)pyrene		ug/L	10	82	59	109				
Isophorone		1g/L	10	67	42	102				
n-Nitrosodimethylamine		18/L	10	37	20	45				
n-Nitroso-di-n-propylamine		1 <b>g</b> /L	10	71	49	98				
n-Nitrosodiphenylamine		ig/L	10	90	61	108				
2-Nitrophenol		ig/L	10	68	51	96				
4-Nitrophenol		ig/L	50	18	15	36				
Naphthalene		1g/L	10	72	48	96				
Nitrobenzene		ıg/L	10	65	51	91				
Pentachiorophenol		.g/L	50	71	53	109				
Phenanthrene		ig/L	10	81	58	104				
Phenol		ig/L	10	35	27	45				
Pyrene		ig/L	10	89	64	108				
1,2,4-Trichlorobenzene		ig/L	10	67	49	85				
2,4,6-Trichlorophenol		ıg/L	10	65	47	99				
Surr: 2-Fluorobiphenyl	04.0	-9/L	10	63	28	107				
Surr: 2-Fluorophenol			10	35	20	56				
Surr: Nitrobenzene-d5			10	68	32	94				
Surr: Phenol-d5			10	42	19	45				
Surr: Terphenyl-d14			10	87	32	122				
Surr: 2,4,6-Tribromophenol			10	70	21	130				
Lab ID: B17021688-001CMS	Sample Matrix Sp	oike			Run: SV597	3N2.I_170227B		02/27/	17 20:29	
			10	86				VEILII	., 19.19	
Acenaphthene		ıg/L	10	86	58	99				

#### **Qualifiers:**

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Batc	h: 107004
Lab ID:	B17021688-001CMS	Sample Matrix	k Spike			Run: SV59	73N2.I_170227B		02/27	/17 20:29
Acenaphth	ylene	83.0	ug/L	10	83	57	96			
Anthracene	2	86.4	ug/L	10	86	60	107			
Azobenzen	e	84.3	ug/L	10	84	56	100			
Benzo(a)ar	nthracene	90.3	ug/L	10	90	62	114			
Benzo(a)py	/rene	80.9	ug/L	10	81	62	108			
Benzo(b)flu	Joranthene	80.4	ug/L	10	80	48	127			
Benzo(g,h,i		80.5	ug/L	10	81	62	121			
Benzo(k)flu		83.5	ug/L	10	83	55	111			
	enyl phenyl ether	80.4	ug/L	10	80	58	105			
Butylbenzy		99.7	ug/L	10	100	60	113			
-	methyiphenol	77.0	ug/L	10	77	53	92			
	oethoxy)Methane	77.3	ug/L	10	77	50	92			
-	oethyl)Ether	66.7	ug/L	10	67	44	82			
-	pisopropyi)Ether	66.6	ug/L	10	67	56	87			
2-Chlorona		79.8	ug/L	10	80	56	95			
2-Chloroph	•	64.1	ug/L	10	64	47	76			
-	enyl phenyl ether	84.5	ug/L	10	85	58	99			
Chrysene	engi priorigi e urei	85.9	ug/L	10	86	63	106			
Diethyl pht	halate	85.4	ug/L	10	85	58	103			
Di-n-butyl p		96.0	ug/L	10	96	61	110			
1,2-Dichlor		66.1	ug/L	10	66	43	81			
1,3-Dichlor		61.9	ug/L	10	62	41	79			
1,4-Dichlor		61.8	ug/L	10	62	42	79			
3,3'-Dichlor		69.1	ug/L	10	69	51	93			
2,4-Dichlor		68.4	ug/L	10	68	49	90			
Dimethyl pl	•	81.4	ug/L	10	81	58	104			
Di-n-octyl p		90.6	ug/L	10	91	56	110			
	h)anthracene	80.0	ug/L	10	80	61	111			
• •	•	69.2		10	69	45	87			
2,4-Dimethy	2-methylphenol	58.9	ug/L	50	59	45 37	105			
		56.9 54.8	ug/L	50	55	27	81			
2,4-Dinitrop		82.5	ug/L	10	83	63	110			
			ug/L				107			
2,6-Dinitrote		80.8	ug/L	10	81	60 56	108			
Fluoranther	exyl)Phthalate	92.0	ug/L	10	92	56				
	le	88.0	ug/L	10	88	63	110			
Fluorene	<b>.</b>	80.1	ug/L	10	80	60	99			
Hexachloro		82.5	ug/L	10	83	57	103			
Hexachioro		69.0	ug/L	10	69	39	83			
	cyclopentadiene	68.1	ug/L	10	68	39	91			
Hexachioro		65.6	ug/L	10	66	37	75			
-	3-cd)pyrene	82.3	ug/L	10	82	59	109			
Isophorone		71.3	ug/L	10	71	42	102			
n-Nitrosodir	methylamine	41.5	ug/L	10	41	20	45			

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit (	Qual
Method: E625								Batch:	107004
Lab ID: B17021688-	001CMS Sample Matr	ix Spike			Run: SV59	73N2.I_170227B		02/27/1	7 20:29
n-Nitroso-di-n-propylamin	e 76.9	ug/L	10	77	49	98			
n-Nitrosodiphenylamine	93.7	ug/L	10	94	61	108			
2-Nitrophenol	69.9	ug/L	10	70	51	96			
4-Nitrophenol	24.6	ug/L	50	25	15	36			
Naphthalene	76.0	ug/L	10	76	48	96			
Nitrobenzene	72.5	ug/L	10	73	51	91			
Pentachtorophenol	89.2	ug/L	50	89	53	109			
Phenanthrene	85.1	ug/L	10	85	58	104			
Phenol	36.7	ug/L	10	37	27	45			
Pyrene	89.8	ug/L	10	90	64	108			
1,2,4-Trichlorobenzene	70.9	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	67.7	ug/L	10	68	47	89			
Surr: 2-Fluorobiphenyl			10	62	28	107			
Surr: 2-Fluorophenol			10	39	20	56			
Surr: Nitrobenzene-d5			10	72	32	94			
Surr: Phenol-d5			10	35	19	45			
Surr: Terphenyl-d14			10	87	32	122			
Surr: 2,4,6-Tribromophe	enol		10	75	21	130			
Lab ID: B17021688-	003CMS Sample Matr	ix Spike			Run: SV59	73N2.I_170227B		02/27/1	7 21:3
Acenaphthene	89.8	ug/L	10	90	58	99			
Acenaphthylene	82.2	ug/L	10	82	57	96			
Anthracene	73.2	ug/L	10	73	60	107			
Azobenzene	80.2	ug/L	10	80	56	100			
Benzo(a)anthracene	85.1	ug/L	10	85	62	114			
Benzo(a)pyrene	77.0	ug/L	10	77	62	108			
Benzo(b)fluoranthene	73.3	ug/L	10	73	48	127			
Benzo(g,h,i)perviene	78.5	ug/L	10	79	62	121			
Benzo(k)fluoranthene	83.1	ug/L	10	83	55	111			
4-Bromophenyl phenyl ett	ner 78.1	ug/L	10	78	58	105			
Butylbenzylphthalate	92.9	ug/L	10	93	60	113			
4-Chioro-3-methylphenol	69.5	ug/L	10	69	53	92			
bis(-2-chloroethoxy)Metha		ug/L	10	70	50	92			
bis(-2-chloroethyl)Ether	58.4	ug/L	10	58	44	82			
bis(2-chlorolsopropyl)Ethe	F 57.7	ug/L	10	58	56	87			
2-Chloronaphthalene	77.7	ug/L	10	78	56	95			
2-Chlorophenol	56.6	ug/L	10	57	47	76			
4-Chlorophenyl phenyl eth		ug/L	10	83	58	89			
Chrysene	82.0	ug/L	10	82	63	106			
Diethyl phthalate	80.2	ug/L	10	80	<del>5</del> 8	103			
	86.9	ug/L	10	87	61	110			
Di-n-butyl phthalate	00.0	~ <del>.</del>							
Di-n-butyl phthalate 1,2-Dichlorobenzene	61.5	ug/L	10	62	43	81			

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte	Result	Units	RL	701 12 0	LOW LINK	High Limit	KPU	RPDLimit	Qual
Method: E625			······					Batcl	n: 107004
Lab ID: B17021688-003CMS	Sample Matro	( Spike			Run: SV59	73N2.I_170227B		02/27	/17 21:31
1,4-Dichlorobenzene	57.9	ug/L	10	58	42	79			
3,3'-Dichlorobenzidine	52.9	u <b>g</b> /L	10	53	51	93			
2,4-Dichlorophenol	61.5	ug/L	10	62	49	90			
Dimethyl phthalate	74.3	ug/L	10	74	58	104			
Di-n-octyl phthalate	82.5	ug/L	10	83	56	110			
Dibenzo(a,h)anthracene	75.9	ug/L	10	76	61	111			
2,4-Dimethylphenol	60.0	ug/L	10	60	45	87			
4,6-Dinitro-2-methylphenol	41.6	ug/L	50	42	37	105			
2,4-Dinitrophenol	30.1	ug/L	50	30	27	81			
2,4-Dinitrotoluene	86.9	ug/L	10	87	63	110			
2,6-Dinitrotoluene	75.9	ug/L	10	76	60	107			
bls(2-ethylhexyl)Phthalate	81.5	ug/L	10	82	56	108			
Fluoranthene	82.0	ug/L	10	82	63	110			
Fluorene	81.9	ug/L	10	82	60	99			
Hexachlorobenzene	75.8	ug/L	10	76	57	103			
Hexachlorobutadiene	69.3	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	69.5	ug/L	10	70	39	91			
Hexachloroethane	57.7	ug/L	10	58	37	75			
Indeno(1,2,3-cd)pyrene	73.4	ug/L	10	73	59	109			
Isophorone	68.4	ug/L	10	68	42	102			
n-Nitrosodimethylamine	27.8	ug/L	10	28	20	45			
n-Nitroso-di-n-propylamine	68.7	ug/L	10	69	49	98			
n-Nitrosodiphenylamine	84.0	ug/L	10	84	61	108			
2-Nitrophenol	61.8	ug/L	10	62	51	96			
4-Nitrophenol	27.7	ug/L	50	28	15	36			
Naphthalene	72.4	ug/L	10	72	48	96			
Narobenzene	69.7	ug/L	10	70	51	91			
Pentachlorophenol	66.8	ug/L	50	67	53	109			
Phenanthrene	79.7	ug/L	10	80	58	104			
Phenol	33.9	ug/L	10	34	27	45			
Pyrene	81.2	ug/L	10	81	64	108			
1,2,4-Trichlorobenzene	71.3	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	63.8	ug/L	10	64	47	99			
Surr: 2-Fluorobiphenyl	00.0	agre	10	45	28	107			
Surr: 2-Fluorophenol			10	37	20	56			
Sur: Nitrobenzene-d5			10	62	32	94			
Surr: Phenol-d5			10	31	19	45			
Surr: Terphenyl-d14			10	64	32	122			
Surr: 2,4,6-Tribromophenol			10	55	21	130			
Lab ID: MB-107004	Method Blank				Run: SV597	3N2.I_170228A		02/28/	17 12:11
Benzidine	ND	ug/L	10						

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte		Resuit L	Inits	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Batcl	h: 107004
Lab ID: Benzidine	LCS-107004	Laboratory Contro 63.4 u	bi Sample ⊧g/L	10	63	Run: SV59 10	73N2.I_170228A 100		02/28	/17 12:42
Lab ID: Benzidine	B17021688-001CMS	Sample Matrix Sp 25.8 u	oike Ig/L	20	26	Run: SV59 10	73N2.I_170228A 100		02/28	/17 14:16
Lab ID: Benzidine	B17021688-003CMS	Sample Matrix Sp 28.5 u	i <b>ke</b> g/L	20	28	Run: SV59 10	73N2.I_170228A 100		02/28	/17 15:18



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc.

Project: 170217005 LFH-1 CO-0121724

Report Date:	03/02/17
Work Order:	C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625	· · · · · · · · · · · · · · · · · · ·					· · · · · ·	Ar	alytical Run:	R275528
Lab ID: 27-Feb-17_CCV_2	Continuing Ca	libration V	erification Standa	ard				02/27	7/17 15:18
Acenaphthene	75.7	ug/L	10	101	80	120			
Acenaphthylene	75.2	ug/L	10	100	80	120			
Anthracene	78.7	ug/L	10	105	80	120			
Azobenzene	79.8	ug/L	10	106	80	120			
Benzo(a)anthracene	78.0	ug/L	10	104	80	120			
Benzo(a)pyrene	78.0	ug/L	10	104	80	120			
Benzo(b)fluoranthene	78.6	ug/L	10	105	80	120			
Benzo(g,h,i)perylene	75.3	ug/L	10	100	80	120			
Benzo(k)fluoranthene	73.2	ug/L	10	98	80	120			
4-Bromophenyl phenyl ether	74.4	ug/L	10	99	80	120			
Butylbenzylphthalate	84.4	ug/L	10	113	80	120			
4-Chloro-3-methylphenol	77.2	ug/L	10	103	80	120			
bis(-2-chloroethoxy)Methane	79.4	ug/L	10	106	80	120			
bis(-2-chloroethyi)Ether	80,8	ug/L	10	108	80	120			
bls(2-chloroisopropyl)Ether	77.8	ug/L	10	104	80	120			
2-Chloronaphthalene	70.3	ug/L	10	94	80	120			
2-Chlorophenol	80.3	ug/L	10	107	80	120			
4-Chlorophenyl phenyl ether	72.9	ug/L	10	97	80	120			
Chrysene	75.0	ug/L	10	100	80	120			
Diethyl phthalate	75.7	ug/L	10	101	80	120			
Di-n-butyl phthalate	81.6	ug/L	10	109	80	120			
1,2-Dichlorobenzene	72.7	ug/L	10	97	80	120			
1,3-Dichlorobenzene	77.8	ug/L	10	104	80	120			
1,4-Dichlorobenzene	74.9	ug/L	10	100	80	120			
3,3'-Dichlorobenzidine	75,8	ug/L	10	101	80	120			
2,4-Dichlorophenol	74.8	ug/L	10	100	80	120			
Dimethyl phthalate	75.3	ug/L	10	100	80	120			
Di-n-octyl phthalate	83.5	ug/L	10	111	80	120			
Dibenzo(a,h)anthracene	74.8	ug/L	10	100	80	120			
2,4-Dimethylphenol	73.0	ug/L	10	97	80	120			
4.6-Dinitro-2-methylphenol	71.3	ug/L	50	95	80	120			
2,4-Dinitrophenol	69.4	ug/L	50	93	80	120			
2,4-Dinitrotoluene	79.4	ug/L	10	106	80	120			
2,6-Dinitrotoluene	78.1	ug/L	10	104	80	120			
bis(2-ethylhexyl)Phthalate	84.4	ug/L	10	112	80	120			
Fluoranthene	76.0	ug/L	10	101	80	120			
Fluorene	77.8	ug/L	10	104	80	120			
Hexachlorobenzene	73.8	ug/L	10	98	80	120			
Hexachlorobutadiene	71.9	ug/L	10	96	80	120			
Hexachlorocyclopentadiene	73.1	ug/L	10	97	80	120			
Hexachloroethane	77.6	ug/L	10	103	80	120			
Indeno(1,2,3-cd)pyrene	75.6	ug/L	10	101	80	120			
Isophorone	78.1	ug/L	10	104	80	120			

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date:	03/02/17
Work Order:	C17020566

Analyte	Result	Units	RL	%REC [	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625		·····					Ar	alytical Run:	R275528
Lab ID: 27-Feb-17_CCV_2	Continuing Ca	libration Verific	ation Standa	rd				02/27	/17 15:18
n-Nitrosodimethylamine	75.3	ug/L	10	100	80	120			
n-Nitroso-di-n-propylamine	77.8	ug/L	10	104	80	120			
n-Nitrosodiphenylamine	78.9	ug/L	10	105	80	120			
2-Nitrophenol	75.8	ug/L	10	101	80	120			
4-Nitrophenol	69.6	ug/L	50	93	80	120			
Naphthalene	79.8	ug/L	10	106	80	120			
Nitrobenzene	76.8	ug/L	10	102	80	120			
Pentachiorophenol	73.3	ug/L	50	98	80	120			
Phenanthrene	74.0	ug/L	10	99	80	120			
Phenoi	79.2	ug/L	10	106	80	120			
Pyrene	75.2	ug/L	10	100	80	120			
1,2,4-Trichlorobenzene	72.8	ug/L	10	97	80	120			
2,4,6-Trichlorophenol	73.6	ug/L	10	98	80	120			
Surr: 2-Fluorobiphenyi		_	10	100	80	120			
Surr: 2-Fluorophenol			10	113	80	120			
Surr: Nitrobenzene-d5			10	105	80	120			
Surr: Phenol-d5			10	121	80	120			S
Surr: Terphenyl-d14			10	101	80	120			
Surr: 2,4,6-Tribromophenol			10	102	80	120			
Method: E625							An	alytical Run:	R275577
Lab ID: 28-Feb-17_CCV_2	Continuing Ca	libration Verific	ation Standa	rd				02/28	/17 11:39
Benzidine	89.5	ug/L	10	119	80	120			

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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## **QA/QC Summary Report**

Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW8260M							/	Analytical Rur	1: 107003
Lab ID:	CCV-107003	Continuing Cal	Ibration Verificatio	n Standa	rd					/17 08:30
1,4-Dioxane		105	ug/L	1.0	105	80	120		GEIZI	/17 00.00
Method:	SW8260M								Batch	n: 107003
Lab (D:	LCS-107003	Laboratory Cor	ntrol Sample			Run: VOA5	973A.I_170227A			/17 09:22
1,4-Dioxane		106	ug/L	1.0	106	70	130			
Lab ID:	MB-107003	Method Blank				Run: VOA5	973A.I_170227A		02/27	(17 09:44
1,4-Dioxane		ND	ug/L	1.0						
Lab ID:	C17020566-001BMS	Sample Matrix	Spike			Run: VOA5	973A.I_170227A		02/27/	17 11:37
1,4-Dioxane		200	ug/L	2.0	100	70	130			
Lab iD:	C17020566-001BMSD	Sample Matrix	Spike Duplicate			Run: VOA5	973A.I_170227A		02/27/	17 11:59
1,4-Dioxane		206	ug/L	2.0	103	70	130	3.0	20	



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C17020566

# **Work Order Receipt Checklist**

# Colorado Analytical Laboratories Inc

Login completed by:	Dorian Quis		Date	Received: 2/21/2017
Reviewed by:	Kasey Vidick		Re	ceived by: dcq
Reviewed Date:	2/21/2017		Car	rier name: Ground
Shipping container/cooler in	good condition?	Yes 🗹	No 🔄	Not Present
Custody seals intact on all sh	hipping container(s)/cooler(s)?	Yes	No 🗌	Not Present
Custody seals intact on all sa	imple bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🗹	No 🛄	
Chain of custody signed whe	n relinquished and received?	Yes 🖌	No 🗌	
Chain of custody agrees with	sample labels?	Yes 🔽	No 🗌	
Samples in proper container/	bottle?	Yes 🗸	No 📋	
Sample containers intact?		Yes 🗸	No 🗌	
Sufficient sample volume for i	indicated test?	Yes 🔽	No 🗌	
All samples received within he (Exclude analyses that are co such as pH, DO, Res CI, Suit	nsidered field parameters	Yes 🗹	No 📋	
Temp Blank received in all sh	ipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temper	ature:	6.8°C Blue ice		
Water - VOA vials have zero I	neadspace?	Yes 🗸	No 🗌	No VOA vials submitted
Water - pH acceptable upon r	eceipt?	Yes	No 📋	Not Applicable

#### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### **Contact and Corrective Action Comments:**

None

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Report To Information	Bill To Information (If different from report to)	Project Name	Colorado Anal Ara
Company Name: Colorado Analytical	Company Name: Same As Report To	170217005	Laboratories, inc.
Contact Name: Stuart Niclson	Contact Name:	Lfh-1 Co-0121724	Brighton Lab 240 South Main Street
Address: 240 S. Main St.	Address:	Task Number (Lab Use Only)	Brighton, CO 80601 Lakewood Lab
			12860 W. Cedar Dr. Suite 100A
ļ			87700 DO DOD MONHON
City Brighton State CO Zip80601	CityState Zip		Phone: 303-659-2313
Phone:3036592313 Fax:3036592315	Phone: Fax:		Fax: 303-659-2315
Email: stuartnicison@coloradolab.com	Email:	Disposal Date(Lab Use Only)	WWW.coloradolab.com
Sample Collector: Stephanie Schwenke	PO No.:		

<u>Brighton Lab</u> 240 South Main Street Brighton, CO 80601 <u>Lakewood Lab</u> 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

C MONDAL					
	625 SOCs				CS Charge
	Grab or (Check One Only) Composite 624 VOC Long List				ia: Relinquished By:
	Plant Tissue Other Other Drinking Water			CIS Info	Date/Time: Reling
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v Public Water System)       Section JI (Sumplied or Completed or Completed or Completed or Completed or Completed or Completed fragmenton)         Information       Laboratory ID: CO 0015         Phone #: 719-227-0072       Laboratory Namc: Colorado Analytical Laboratory Namc: Colorado Analytical Laboratory Namc: Contract Person: Customer Service         Do Samples Need to be       Contract Person: Customer Service         Do Samples Need to be       Comments:         Section III (Supplied or Completed by Public Water System)       Section III (Supplied or Completed by Certified Laboratory)         Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Analytical Laboratory)         Analyte Name       TAB	Colorado Deparaceut		Inor 4300 Fax	Inorganic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO 80246-1530 Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us	emicals Certified Laboratory Report Form WQCD - Drinking Water CAS Creek Drive South, Denver, CO 80246-1530 58-1398; cdphe.drinkingwater@state.co.us	orm 1530 1.us		Revise	Revised 6/13/2014
Public Water System Information       04     Laboratory II       105     Laboratory N       105     Renth MD       105     Phone #: 719-227-0072       105     Contact Person       106     Samples Need to be       107     Contact Person       108     Composited BY THF LAB?       108<	Section	I (Supplied or	r Completed by Public	Water System)	Section JI (Sur	plied or Completed b	v Certified 1	shoratory	
14     Laboratory ID: C0 0015       nrg Ranch MD     Laboratory Name: Colorado Analytical Labor       k Volle     Phone #: 719-227-0072     Contact Person: Customer Service       composited BY THE LAB?     Contact Person: Customer Service       Collector: Stephanie Schwe Facility ID     Section III (Supplied or Completed by Public Water System)       Section IV Inorganic Chemicals (Completed by Certified I aboratory)     Analysis       Date     Inorganic Chemicals (Completed by Certified I aboratory)       Date     17032407-01     Trantal		Public W	ater System Information	tion	Ŭ	rtified Laboratory I	nformation		
ng Ranch MD k Volle k VVolle k VVoll	PWSID#: C0012172				Laboratory ID: CO 0015				
*k Volle     Phone #: 719-227-0072     Contact Person: Customer Service       Do Samples Need to be Composited BY THE LAB?     Do Samples Need to be Comments:     Comments:       Section III (Supplied or Completed by Public Water System)     Section III (Supplied or Completed by Public Water System)       Analysis     Lab Sample ID     New Well     Sample Pt ID (On Schodule): New Well       Section IV Inorganic Chemicals (Completed by Certified Laboratory)     Analytical Laboratory)       Date     170324007-01     Fluoride	System Name: Sterlir	ng Ranch MD			Laboratory Name: Colorado	Analytical Laborato	L.		
Do Samples Need to be Composited BY THF LAB?     Do Ruments:       Composited BY THF LAB?     Comments:       Composited BY THF LAB?     Section III (Suppled or Completed by Public Water System)       Section III (Suppled or Completed by Public Water System)       Analysis     Lab Sample P1 ID (On Schedule): New Well       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Date     Analytical       170324017     170324007-01	Contact Person: Marl	k Volle			Contact Person: Customer 5		Phone: 303-659-2313	-2313	
Collector:     Section III (Suppled or Completed by Public Water System)       Collector:     Section III (Suppled or Completed by Public Water System)       Analysis     Lab Sample P1 ID (On Schedule):       Nalysis     Lab Sample D       Nalysis     Lab Sample D       12ate     Analytical       3724/17     170324007-01	Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
Section III (Supplied or Completed by Public Water System)       Collector: Stephanie Schwe Facility ID (On Schedule): New Well       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       b Analysis     Lab Sample ID       Date     CAS No       Analysis     Constant Construction       Analysis     Constant Constant Completed by Certified Laboratory)       Date     CAS No       Analyte Name     CAS No       Method     Cm								-	
Collector:     Stephanic Schwe     Facility ID (On Schedule):     New Well     Sample P1 ID (On Schedule):       Section IV Inorganic Chemicals (Completed by Certified Laboratory)     Section IV Inorganic Chemicals (Completed by Certified Laboratory)     Mailyical     Mailyical       Date     1324017     170324007-01     Fluoride     7681.40.4     Fluoride				Section III (Supplied or Comp	leted by Public Water System				
Section IV Inorganic Chemicals (Completed by Certified Laboratory)           Lab Sample ID         Analytical         Mathematicals         Completed by Certified Laboratory)           1 ab Analysis         Lab Sample ID         Analytical         M           1 bate         3/24/17         170324007-01         Fluoride         7691.40.4         PAN 200.0	Sample Date: 3/23/17	Collec	tor: Stephanie Schwe	Facility ID (On Schedule): ]		ole Pt ID (On Schedu	le): New Well	Vell	
Lab Analysis     Lab Sample ID     Analyse Name     CAS No.     Analysical       Date     3/24/17     170324007-01     Filuride     7681.40.4     PDA 200.0			Sec	tion IV Inorganic Chemicals (C	ompleted by Certified Labora	torv)			
3/24/17 170324007-01 Fluoride 7681-40-4 PDA 200-0		Analysis Date	Lab Sample (D	Analyte Name	CAS No.		MCL (me/l.)	Lab MRL.	Result
		1/24/17	170324007-01	Flunride	7681-49-4	EPA 300.0	4	0.09	1.22

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

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Colorado Analytical		<u>Brighton Lab</u>	240 South Main Street		Lakewood Lab	Lakewood CO 80228	Phone: 303-659-2313	Fax: 303-659-2315	<u>www.coloradolab.com</u>			(	alaniO) t	57 AN	'YANS											No	3.3 ° 11 1	+	
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page lot 2	State Form / Project Information		System Name:	STERLENC RANCH MD	20 BOULDER			County: El Paso	Compliance Samples: Yes 🔂 No 🗍	Send Forms to State: Yes 🛛 No 🙀	Drinking Water Analyses (check analysis)			_	5.4.2												K V		
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Analytical	LABORATORIES, INC.	Brighton Fah	240 South Main Street	Brighton, CO 80601	Lakewood Lab		Lakewood CO 80228	Frome: 303-659-2313 Fax: 303-659-2315	www.coloradolab.com			analysis) Subcontract Analyses	()	ircle)	528 526 529 724 724 724 72 72 72 72 72 72 72 72 72 72 72 72 72	A, DV A, UV A, UV Z, MU Z, MU	Alk. Alk. Cros Cros Cros Cros Cros Cros Cros Cros											Seals Present Yes No Headspace Yes No	ce Sampl	Neceived By: Date/ Lime:
page 2 of 2	State Form / Project Information		System Name:	Service Parcy MY	Address: A start A start A start		15 N. C. 942	E D'		Compliance Samples: Yes N No L		PHASE I, II, V Drinking Water Analyses (check analysis)		יזנ	phosa ndotha iquat FHMs AA55 AA55 AA55	1.1 En 2 D 2 L 	Nitr 2524 5524 5524 5524 549												CS Charge L	
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	Report To Information	Company Name: JDS-14cdrc (cnxul lands)	Contact Name: Mark Volle		WISHS E. PILLERE AND	Sunt 200	City CS Star CZID RU903	e-911.ª	Email: MVolleCidehydre, Com	Sampler Name: Konding of Muserker PO No.		CAL Task No.	170324007	Ра	ARF ARF	w Date   Time   Client Sample [D / EP Code		117 1018 22-5	C   # +10°	× 1 3	117 PC:S		1)0117	17	8177 65-8	1/ 8/12 #19	OCT beis .	Instructions:	Relinquished By Date/Time:	1:200 1:200 1:200

P 500 Drinking Water Chain

Colorado

		Inorg	Inorganic Chemicals Certified Laboratory Report Form	d Laboratory Rep	ort Form			Revise	Revised 4/13/2015
Colorado Denorman	I Ħ	Subm	WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login	ng Water CAS wqcdcompliance.	com/login				IOC
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	Public	<b>Public Water System Information</b>	tion		Certified L	<b>Certified Laboratory Information</b>	Iformation		
PWSID#: C00121724	121724			Laboratory ID: CO 0015					
System Name:	System Name: Sterling Ranch MD	9		Laboratory Name: Colorado Analytical Laboratory	olorado Analyti	cal Laboratory			
Contact Person: Mark Volle	: Mark Volle		Phone #:	Contact Person: Customer Service	omer Service	Phot	Phone: 303-659-2313	-2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:			-		
			Section III (Supplied or Compl	(Supplied or Completed by Public Water System)	System)				
Sample Date: 3/23/17		Collector: Stephanie Schwe   Facility II		New Well	Sample Pt ID (On Schedule):	(On Schedule	c): New Well	Vell	
			Section IV Inorganic Chemicals (C	ganic Chemicals (Completed by Certified Laboratory)	Laboratory)				
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	No.	Analytical Method	MCL.	Lab MRI.	Result (mu/T)
3/24/17	3/29/17	170324007-01A	Antimony	7740-36-0	36-0	FPA 200.8	0.006	0.001	BDL
3/24/17	3/29/17	170324007-01A	Arsenic	7440-38-2		EPA 200.8	0.01	0.001	0.002
3/24/17	3/29/17	170324007-01A	Barium	7440-39-3		EPA 200.8	2	0.001	0.003
3/24/17	3/29/17	170324007-01A	Beryllium	7440-41-7		EPA 200.8	0.004	0.001	BDL
3/24/17	3/29/17	170324007-01A	Cadmium	7440-43-9		EPA 200.8	0.005	0.001	BDL
3/24/17	3/29/17	170324007-01A	Chromium	7440-47-3		EPA 200.8	0.1	0.001	BDL
3/24/17	3/29/17	170324007-01A	Mercury	7439-97-6	97-6	EPA 200.8	0.002	0.0001	BDL
3/24/17	3/29/17	170324007-01A	Nickel	7440-02-0		EPA 200.8	V/N	0.001	0.001
3/24/17	3/29/17	170324007-01A	Selenium	7782-49-2		EPA 200.8	0.05	0.001	BDL
3/24/17	3/30/17	170324007-01A	Sodium	7440-23-5		EPA 200.7	V/N	0.1	52.8
3/24/17	3/29/17	170324007-01A	l'hallium	7440-28-0		EPA 200.8	0.002	0.001	BDL

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A luss than (<) may also used.

mg/L.: Milligrams per Liter MCL.: Maximum Contaminant Level

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Colorado Analytical		Brighton Lab	Brighton, CO 80601	Lakewood Lab 12860 W. Cedar Dr.	Phone: 303-659-2313	Fax: 303-659-2315	v.col			(	eloriO) 4	የያ እሀ	אאט:											No.	7	+	
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Report To: Mark Volle Company: JDS Hydro Consultants 545 E. Pikes Peak Ave Suite 300 Colorado Springs CO 80903 **Analytical Results** 

TASK NO: 170324007

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170324007 Client PO: Client Project: Sterling Ranch MD CO0121724

Date Received: 3/24/17 Date Reported: 4/21/17 Matrix: Water - Drinking

Customer Sample ID Sterling Ranch MD Sample Date/Time: 3/23/17 8:03 AM Lab Number: 170324007-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	99.7 mg/L as CaCO3	SM 2320-B	0.1	3/28/17	VDB
Calcium as CaCO3	2.5 mg/L	SM 3111-B	0.1	3/30/17	MBN
Carbonate	< 0.1 mg/L as CaCO3	SM 2320-B	0.1	3/28/17	VDB
Langelier Index	-1.23 units	SM 2330-B		3/31/17	LJG
pH	8.16 units	SM 4500-H-B	0.01	3/24/17	MBN
Temperature	20 °C	SM 4500-H-B	1	3/24/17	MBN
Total Alkalinity	99.7 mg/L as CaCO3	SM 2320-B	0.1	3/28/17	VDB
Total Dissolved Solids	143 mg/L	SM 2540-C	5	3/29/17	ISG

Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 1 of 3

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NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

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System Name: S	Sterling Ranch MD	MD		Laboratory Name: Colorado /	Colorado Analytical Laboratory	LT.		
Contact Person: Mark Volle	Mark Volle		Phone #: 719-227-0072	Contact Person: Customer Service		Phone: 303-659-2313	-2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
PWSID#: CO0121724	724		Section V (Supplied or Compl	(Supplied or Completed by Public Water System)				
Sample Date: 3/23/17	717	Collector: Stephanie Schwenk Facil	hwenk Facility ID (On Schedule):	New Well Sample	Sample Pt ID (On Schedule):	: New Well	0	
		Section VI Sy	inthetic Organic Chemicals (Sur	leted by C	I Laboratory)			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	Analytical Method	MCL (us/L)	Lab MRL (us/L)	Result (uo/1.)
3/24/17	4/3/17	170324007-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
3/24/17	3/29/17	170324007-01G	2,4D	94-75-7	EPA 515.4	70	0.1	BDL
3/24/17	3/29/17	170324007-01G	2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL
3/24/17	3/31/17	170324007-011	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb	116-06-3	EPA 531.1	N/A	0.6	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL
3/24/17	3/31/17	170324007-011	Atrazine	1912-24-9	EPA 525.2	3	0.1	BDL
3/24/17	3/31/17	170324007-011	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
3/24/17	3/31/17	170324007-011	Carbofuran	1563-66-2	EPA 531.1	40	6.0	BDL
11/4/15	3/30/17	170324007-01F	Chlordanc	57-74-9	FPA 505	7	0.2	BDL
11/1-7/5	11/67/5	11/032400/-011	Dalapon	75-99-0	EPA 515.4	200	-	BDL
111-710	11/12/2	170324007-011	Dil 2-cuny incxy i batic	103-23-1	EPA 525.2	400	9.6	BDL
211-210	11/10/2	11/02/400/-010	LJN(2-ctrtyIncxyI)prtnalate	117-81-7	EPA 525.2	9	0.6	BDI,
11/47/2	11/67/6	010-/0020001	Diposch	85-85-7	EPA 515.4	7	0.2	BDL
114710	3/24/17	710-/0072001	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
3/24/1/	3/29/17	170324007-01K	Endothall	145-73-3	EPA 548.1	100	6	BDL
11/47/2	3/30/1/	1/032400/-015	Endrin	72-20-8	EPA 505	2	0.01	BDL
3/24/17	4/3/17	170324007-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL
3/24/1/	3/31/17	170324007-011	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
3/24/1/	3/30/17	170324007-01F	Hentachlor epoxide	1024-57-3	HPA 505	0.2	0.02	BDL
NT: Not Tested ug/L:	Micrograms per l	Liter MCL: Maximum Contamir	nant Level BDL Below Laboratory MI	NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also be used	xt.		170324007-01	N 1/2 4/21/17

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PWSID#: CO0121724	21724		Section V (Supplied or Completed	(Supplied or Completed by Public Water System)				
Sample Date: 3/23/17	23/17	Collector: Stephanie S	Stephanie Schwenk Facility ID (On Schedule):	New Well Sample	Sample Pt ID (On Schedule):	New Well		
		Section VI 5	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	d or Completed by Certified	Laboratory)			
Lab Receipt	Lab Analysis	Lab Sample ID	Analyte Name	CAS No	Analytical	MCL	Lab MRL	Result
LUate	Date				Method	("I/an)	(ng/L)	(/T/20)
3/24/17	3/30/17	170324007-01F	Hexachlorobenzene	118-74-1	EPA 505	1	0.1	RDI.
3/24/17	3/30/17	170324007-01F	Hexachlorocyclopentadiene	77-47-4	EPA 505	50	6	BUL
3/24/17	3/30/17	170324007-01F	Lindane	58-89-9	EPA 505	0.2	2010	BDL
3/24/17	3/30/17	170324007-01F	Methoxychlor	72-43-5	EPA 505	40	10	IUN
3/24/17	3/31/17	170324007-01J	Oxamyl	23135-22-0	EPA 531.1	200	-	BUI
3/24/17	3/29/17	170324007-01G	Pentachlorophenol	87-86-5	EPA 515.4	-	104	IUI
3/24/17	3/29/17	170324007-01G	Picloram	1918-02-1	EPA 515.4	500	10	IUI
3/24/17	3/30/17	170324007-01F	Polychlorinated biphenyl's	1336-36-3	EPA 505	0.5	0.1	RNL
3/24/17	3/31/17	170324007-011	Simazine	122-34-9	EPA 525.2	4	0.07	RDI.
3/24/17	3/30/17	170324007-01F	Toxaphene	8001-35-2	EPA 505	3	-	BDL

NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also be used.

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Colorado Analytical		Brighton Lab	240 South Main Street Brighton, CO 80601	Lakewood Lab	12860 W. Cedar Dr. 1 Latewood CO 80228	Phone: 303-659-2313	Fax: 303-659-2315	www.coloradolab.com			(	əlmiD)	M 254	አለሀሪ											°N	3.3 minut	+	
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Colorado Anolytical LABORATORIES, INC.	Brighton Lab 240 South Main Street		Lakewood Lab 12860 W. Cedar Dr. Snite 100A			Fax: 303-659-2315	www.coloradolab.com		k analysis) Subcontract Analyses	(	(Circle) (Circle) <b>JC</b> /Beta	m n 228 n 228 y phys y								×			Seals Present Yes No Readspace Yes No	Temp. °C/Ice Sample Pres. Yes 🗌 No 🗍	Received By: Date/Time:
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Page 20	HELIE 10 CO: UISMA	System name: Ser line Ranch MS	Address: Bruider Crewit		City (S	County: El Paso	Compliance Samples: Yes 🚺 No 🗌	Send Forms to State: Yes No. W	PHASE 1, 11, V Drinking Water Analyses (check analysis)		ihall tt	onqvi Endor Bique	254°5 248°1 248°1 248°1										ioj	Delivered Via:	Relinquished By:
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			Radion	uclides C	Certified I	aboratory	Radionuclides Certified Laboratory Report Form			Revision	Revision 6/13/2014
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of Public Health and Environment		μ.	Fax: (30:	3) 758-13	98; cdphe.	.drinkingwa	(303) 758-1398; cdphe.drinkingwater@state.co.us				
	Section	Section I (Supplied or Completed by Public		Water System)			Section II (Supplied or Completed by Certified Laboratory)	ed or Completed	by Certified I	aboratory)	
	4	Public Water System Information	1				Certified L	Certified Laboratory Information	nation		
PWS ID: C00121724	21724				Ĺab	Laboratory ID: CO 00008	00008				
System Name:	System Name: Sterling Ranch MD	Ą			Lab	oratory Name:	Laboratory Name: Hazen Research, Inc.				
Contact Person:			Phone #:		Con	Contact Person: Jessica Axen	ssica Axen		Phone #: 303-279-4501	279-4501	
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Lab Receipt Date	Lab Analysis Date	Lab Sample ID		Analyte ?	Analyte Name (Code)		CAS No.	Analytical Method	MCL	Lab MRL	Result
03/24/2017	04/18/2017	C27017-001	Gross	Alpha Inclu	Gross Alpha Including Uranium (4002)	um (4002)	12587-46-1	SM 7110 B	N/A.	1.5	0.0(±1.5)
				Combined (	Combined Uranium (4006)	06)	7440-61-1	D2907-97	30 ug/L		
03/24/2017	04/07/2017	C27017-001		Radium	Radium -226 (4020)		13982-63-3	SM 7500-Ra B	N/A	0.1	0.4(±0.3)
03/24/2017	03/30/2017	C27017-001		Radium	Radium -228 (4030)		15262-20-1	EPA Ra-05	N/A	0.6	0.2(±0.6)
03/24/2017	04/18/2017	C27017-001		Gross E	Gross Beta (4100)		12587-47-2	SM 7110 B	50 pCi/L*	2.1	0.0(±2.0)
			T.	otal Dissolv	Total Dissolved Solids (1930)	930)		EPA 160.3	N/A		
*The MCL fo	r Gross Beta F	*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.	ar. Since l	there is no s	simple conve	ersion betwee	in mrem/year and pCi/L	EPA considers 2	50 pCi/L to b	e the level o	of concern.
			Sei	tion V Calc	Section V Calculated Values	99					
	~	N/A	Gross /	Alpha Exch	Gross Alpha Excluding Uranium (4000)	am (4000)	Calculated Value	alue	15 pCi/L	N/A	
			Combin	led Radium	Combined Radium {-226 & -228} (4010)	28} (4010)	Calculated Value	alue	5 pCi/L	N/A	
IN	NT: Not Tested						ug/L: Micrograms per Liter	15 per Liter			
La	MRL: Labor	Lab MRL: Laboratory Minimum Reporting Level	svel				pCi/L: Picocuries per Liter	s per Liter			

BDL: Below Laboratory MRL. A less than sign (<) may also be used

pUtL: Picocuries per Liter MCL: Maximum Contaminant Level

Drinking	
Water	
Chain	
of	
Custody	

Bill To Information (If different from report to)       State Form / Project         Company Name: same       PWSID: CO01217         Contact Name:       System Name: Sterili         Address:       System Name: Sterili         City:       State:       Zip:         City:       State:       Zip:         Phone:       Fax:       County: El Paso         Email:       Compliance Samples         PO No.:       Send Forms to State	Sampler Name:	2	Email: stuartnielson@coloradolab.com	Phone:303-659-2313 Fax:303-659-2315	City: Brighton State: CO Zip: 80601	Address: P.O. Box 507	Contact Name: Stuart Nielson	Company Name: Colorado Analytical Labs	Report To Information
State Form / Project Information         PWSID: CO0121724         System Name: Sterling Ranch MD         System Address:         20 Boulder Crescent         City: Colo Spgs       State: CO Zip: 8090         County: El Paso         Compliance Samples: Yes X No         Send Forms to State: Yes No	PO No.:		Email:	Phone:	State:	Address:	Contact Name:	Company Name: same	Bill To Information (If different from report to)
	Send Forms to State: Yes V No X		Compliance Samples: Yes 🛛 No 🗌	County: El Paso	City: Colo Spgs State: CO Zip: 80903	System Address: 20 Boulder Crescent	System Name: Sterling Ranch MD	PWSID: C00121724	State Form / Project Information

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Colorado Analytical

<u>Brighton Lab</u> 240 South Main Street Brighton, CO 80601

Lakewood Lab 12860 W. Cedar Dr, Suite 101 Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com



Report To: Mark Volle **Company: JDS Hydro Consultants** 545 E. Pikes Peak Ave Suite 300 Colorado Springs CO 80903 **Analytical Results** 

TASK NO: 170324007

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

> Facility ID: New Well Sample Point ID: New Well

Task No.: 170324007 **Client PO:** Client Project: Sterling Ranch MD CO0121724

Date Received: 3/24/17 Date Reported: 4/21/17 Matrix: Water - Drinking

Customer Sample ID Sterling Ranch MD Sample Date/Time: 3/23/17

8:03 AM Lab Number: 170324007-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	1.3 mg/L	EPA 300.0	0.1 mg/L	3/24/17	LIG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	3/28/17	VDB
E-Coli	< 1 mpn/100ml	Colliert	1 mpn/100ml	3/25/17	VDB
Sulfate	10.7 mg/L	EPA 300.0	0.1 mg/L	. 3/24/17	LJG
Total Coliform	68 mpn/100ml	Colifert	1 mpn/100ml	3/25/17	VDB
Total Organic Carbon	< 0.5 mg/L	SM 5310-C	0.5 mg/L	. 3/28/17	ISG
Turbidity	1.08 NTU	SM 2130-B	0.01 NTU	3/24/17	MBN
<u>Total</u>					
Aluminum	0.032 mg/L	EPA 200.8	0.001 mg/L	. 3/29/17	TCD
Calcium	1.0 mg/L	EPA 200.7	0.1 mg/L	. 3/29/17	MBN
Copper	< 0.0008 mg/L	EPA 200.8	0.0008 mg/L	3/29/17	TCD
iron	0.180 mg/L	EPA 200.7	0.005 mg/L	3/30/17	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001 mg/L	3/29/17	TCD
Magnesium	0.06 mg/L	EPA 200.7	0.02 mg/L	3/29/17	MBN
Manganese	0.0071 mg/L	EPA 200.8	0.0008 mg/L	3/29/17	TCD
Potassium	1.0 mg/L	EPA 200.7	0.1 mg/L	3/29/17	MBN
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	3/29/17	TCD
Strontium	0.009 mg/L	EPA 200.8	0.005 mg/L	3/29/17	TCD
Total Hardness	2.7 mg/L as CaCO3	SM 2340-B	0.1 mg/L as CaCO3	3/30/17	MBN
Uranium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	3/29/17	TCD
Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L	3/29/17	TCD

Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Microgrems Per Liter or PPB mpn/100 m/s = Most Probable Number Index/ 100 m/s Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 1 of 4



Report To: Mark Volle Company: JDS Hydro Consultants 545 E. Pikes Peak Ave Suite 300 Colorado Springs CO 80903

## **Analytical Results**

TASK NO: 170324007

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170324007 Client PO: Client Project: Sterling Ran	ch MD CO0121724		Received: 3/24/1 Reported: 4/21/1 Matrix: Water	7	
Customer Sample ID Sterli Sample Date/Time: 3/23/ Lab Number: 17032			Facility Sample Point	ID: New Well ID: New Well	
est	Result	Method	ML	Date Analyzed	Analyzed By
<u>otal</u> Zinc	0.002 mg/L	EPA 200.8	0.001 mg	/L 3/29/17	TCD

Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpr/100 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 2 of 4

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### ANALYTICAL SUMMARY REPORT

April 06, 2017

Colorado Analytical Laboratories Inc PO Drawer 507 Brighton, CO 80601

Work Order: C17030850 Quote ID: C4542 - 624, 625, 1,4-Dioxane

Project Name: 170324007 Sterling Ranch MD

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 3/28/2017 for analysis.

Lab ID	Client Sample ID	Collect Date Re	ceive Date	Matrix	Test
C17030850-001	170324007 Sterling Ranch MD	03/23/17 8:03 0	03/28/17	Groundwater	Azeotropic Distilation Separatory Funnel Liquid-Liquid Ext. Semi-Volatile Organic Compounds 624-Purgeable Organics Volatile Compounds by Azeotropic Distillation

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Digitally signed by Randy Horton Date: 2017.04.06 16:31:29 -06:00

ENERGY CABODATORIES	Trust our People. Trust our Data. www.energylab.com	Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711
CLIENT:	Colorado Analytical Laboratories Inc	Report Date: 04/06/17
Project:	170324007 Sterling Ranch MD	Report Date. 04/00/17
Work Order:	C17030850	CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

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### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Project: Lab ID: Client Sample (D;	Colorado Analytical Lab 170324007 Steriing Rar C17030850-001 170324007 Sterling Rar	n <b>ch MD</b>	s inc				Collect	Received:	03/23/17 08:03
Analyses		Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analy	/sis Date / By
VOCS BY AZEOTR	OPIC DISTILLATION								
1,4-Dioxane		ND	ug/L		1.0		SW8260M	A 04/08	6/17 09:34 / eli-b
<ul> <li>Analysis by direct a quantitate the 1,4-Direct</li> </ul>	queous injection of the sample o oxane and account for any variat	listillate. A tions in the	deuterated analysis or	version of 1,4-Dio	xane was	added to th	ie sample pi	ior to distillati	on and used to
VOLATILE ORGAN	IIC COMPOUNDS								
Acetone		ND	ug/L		20		E624	03/31	/17 16:09 / eli-b
Acetonitrile		ND	ug/L		20		E624	03/31	/17 16:09 / eli-b
Acrolein		ND	ug/L		20		E624	03/31	/17 16:09 / eli-b
crylonitrile		ND	ug/L		20		E624	03/31	/17 16:09 / ell-b
Benzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
Iromobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
Iromochioromethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
romodichloromethan	e	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
iromoform		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
romomethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
arbon disulfide		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
arbon tetrachloride		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
hlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
hlorodibromomethan	e	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
hloroethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eil-b
-Chloroethyl vinyl eth	er	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
chloroform		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
chloromethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
-Chlorotoluene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
-Chlorotoluene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
,2-Dibromoethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
libromomethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / ell-b
2-Dichlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
,3-Dichlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
,4-Dichlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / ell-b
ichlorodifiuorom ethal	ne	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
1-Dichloroethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
2-Dichloroethane			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
1-Dichloroethene			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
is-1,2-Dichioroethene	1		ug/L		1.0		E624	03/31	/17 16:09 / eli-b
ans-1,2-Dichloroethe	ne		ug/L		1.0		E624	03/31	/17 16:09 / eli-b
2-Dichloropropane			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
3-Dichloropropane			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
2-Dichloropropane			ug/L		1.0		E624	03/31	/17 16:09 / ell-b
1-Dichloropropene			ug/L		1.0		E624		/17 16:09 / eli-b
is-1,3-Dichloroproper	6	ND			1.0		E624		/17 16:09 / eli-b
ans-1,3-Dichioroprop			ug/L		1.0		E624		/17 16:09 / eli-b
thylbenzene			ug/L		1.0		E624		/17 16:09 / ell-b

Report Definitions:

RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



#### LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch

Client:Colorado Analytical Laboratories IncProject:170324007 Sterling Ranch MDLab ID:C17030850-001Client Sample ID:170324007 Sterling Ranch MD

Report Date: 04/06/17 Collection Date: 03/23/17 08:03 DateReceived: 03/28/17 Matrix: Groundwater

Analyses         Result         Units         Qualifiers         RL         QCL         Method         Analysis Date /           VOLATILE ORGANIC COMPOUNDS           Methyl tert-butyl ether (MTBE)         ND         ug/L         2.0         E624         03/31/17 16:09 /           Methyl ethyl ketone         ND         ug/L         20         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND         ug/L         10         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND         ug/L         10         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND         ug/L         10         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND         ug/L         1.0         E624         03/31/17 16:09 /           Naphthalene         ND         ug/L         1.0         E624         03/31/17 16:09 /           Styrene         ND         ug/L         1.0         E624         03/31/17 16:09 /           1,1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17 16:09 /	2.
Methyl tert-butyl ether (MTBE)         ND         ug/L         2.0         E624         03/31/17         16:09 /           Methyl ethyl ketone         ND         ug/L         20         E624         03/31/17         16:09 /           Methyl isobutyl ketone         ND         ug/L         20         E624         03/31/17         16:09 /           Methyl isobutyl ketone         ND         ug/L         10         E624         03/31/17         16:09 /           Methyl ene chloride         ND         ug/L         10         E624         03/31/17         16:09 /           Maphthalene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Styrene         ND         ug/L         0.50         E624         03/31/17         16:09 /           Tetrachloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           Toluene         ND         ug/L         1.0         E624	Oy
Methyl ethyl ketone         ND ug/L         20         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND ug/L         10         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND ug/L         10         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND ug/L         1.0         E624         03/31/17 16:09 /           Methylene chloride         ND ug/L         0.50         E624         03/31/17 16:09 /           Naphthalene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Tetrachloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Toluene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	
Methyl isobutyl ketone         ND ug/L         10         E624         03/31/17 16:09 /           Methylene chloride         ND ug/L         1.0         E624         03/31/17 16:09 /           Naphthalene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Tetrachloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	/ eli-b
Methylene chloride         ND         ug/L         1.0         E624         03/31/17         16:09 /           Naphthalene         ND         ug/L         0.50         E624         03/31/17         16:09 /           Styrene         ND         ug/L         0.50         E624         03/31/17         16:09 /           Styrene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Tetrachloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           Toluene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1-Trichloroethane         ND         ug/L         1.0         E624         03	/ eli-b
Naphthalene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Tetrachloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17	/ eli-b
Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Tetrachloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Toluene         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	eli-b
Tetrachloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           Toluene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Trichloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /	eli-b
ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           Toluene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Trichloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /	eli-b
1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Toluene         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	ell-b
Toluene         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	eli-b
Trichloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	eli-b
1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	ell-b
1,1,2-Trichloroethane ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
	eli-b
Trichloroffuoromethane ND ug/L 1.0 E624 03/31/17 16:00 /	eli-b
	ell-b
1,2,3-Trichloropropane ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
Vinyl Acetate ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
Vinyl chloride ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
m+p-Xylenes ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
o-Xylene ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
Xylenes, Total ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
Surr: 1,2-Dichloroethane-d4 105 %REC 71-139 E624 03/31/17 16:09 /	eli-b
Surr: p-Bromofluorobenzene 102 %REC 80-127 E624 03/31/17 16:09 /	eli-b
Surr: Toluene-d8 92.0 %REC 80-123 E624 03/31/17 16:09 /	eli-b
SEMI-VOLATILE ORGANIC COMPOUNDS	
Acenaphthene ND ug/L 10 E625 03/30/17 17:14 /	
Acenaphthylene ND ug/L 10 E625 03/30/17 17:14 /	eli-b
Anthracene ND ug/L 10 E625 03/30/17 17:14 /	
Azobenzene ND ug/L 10 E625 03/30/17 17:14 /	eli-b
Benzidine ND ug/L 10 E625 03/30/17 17:14 /	
Benzo(a)anthracene ND ug/L 10 E625 03/30/17 17:14 /	eli-b
Benzo(a)pyrene ND ug/L 10 E625 03/30/17 17:14 /	eli-b
Benzo(b)fluoranthene ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
Benzo(g,h,i)perylene ND ug/L 10 E625 03/30/17 17:14 / 0	elí-b
Benzo(k)fluoranthene ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
4-Bromophenyl phenyl ether ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
Butylbenzylphthalate ND ug/L 10 E625 03/30/17 17:14 / 6	
4-Chloro-3-methyiphenoi ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
bis(-2-chloroethoxy)Methane ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
bis(-2-chloroethyl)Ether ND ug/L 10 E625 03/30/17 17:14 / 6	eli-b
bis(2-chloroisopropyl)Ether ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
2-Chloronaphthalene ND ug/L 10 E625 03/30/17 17:14 / 6	eli-b
2-Chlorophenol ND ug/L 10 E625 03/30/17 17:14 / 6	

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc
Project:	170324007 Sterling Ranch MD
Lab ID:	C17030850-001
Client Sample ID:	170324007 Sterling Ranch MD

Report Date: 04/06/17 Collection Date: 03/23/17 08:03 DateReceived: 03/28/17 Matrix: Groundwater

					MCL/	
Analyses	Result	Units	Qualifiers	RL	QCL Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS	,					
4-Chlorophenyl phenyl ether	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
Chrysene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Diethyl phthalate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Di-n-butyi phthalate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
1.2-Dichlorobenzene	ND			10	E625	03/30/17 17:14 / ell-b
1,3-Dichlorobenzene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
1,4-Dichlorobenzene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
3,3'-Dichlorobenzidine		_		10	E625	03/30/17 17:14 / eli-b
2,4-Dichlorophenol	ND	ug/L				
Dimethyl phthaiate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Di-n-octyl phthalate	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
Dibenzo(a,h)anthracene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
2,4-Dimethylphenol	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
4,6-Dinitro-2-methylphenol	ND	ug/L		50	E625	03/30/17 17:14 / eli-b
2,4-Dinitrophenol	ND	ug/L		50	E625	03/30/17 17:14 / ell-b
2,4-Dinitrotoluene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
2,6-Dinitrotoluene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
bis(2-ethylhexyl)Phthalate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Fluoranthene	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
Fluorene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Hexachlorobenzene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Hexachlorobutadiene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Hexachloroethane	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Indeno(1,2,3-cd)pyrene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Isophorone	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
n-Nitrosodimethylamine	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
n-Nitroso-di-n-propylamine	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
2-Nitrophenol	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
4-Nitrophenol	ND	ug/L		50	E625	03/30/17 17:14 / eli-b
	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Naphthalene Nitrobenzene	ND	-		10	E625	03/30/17 17:14 / eli-b
		ug/L		50	E625	03/30/17 17:14 / eli-b
Pentachiorophenol	ND	ug/L				
Phenanthrene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Phenoi		ug/L		10	E625	03/30/17 17:14 / eli-b
Pyrene		ug/L		10	E625	03/30/17 17:14 / eli-b
1,2,4-Trichlorobenzene		ug/L		10	E625	03/30/17 17:14 / eli-b
2,4,6-Trichlorophenol		ug/L		10	E625	03/30/17 17:14 / ell-b
Surr: 2-Fluorobiphenyl		%REC		28-107	E625	03/30/17 17:14 / eli-b
Surr: 2-Fluorophenol		%REC		20-56	E625	03/30/17 17:14 / eli-b
Surr: Nitrobenzene-d5	63.0	%REC		32-94	E625	03/30/17 17:14 / ell-b
				19-45	E625	03/30/17 17:14 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



## LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc
Project:	170324007 Sterling Ranch MD
Lab ID:	C17030850-001
Client Sample ID:	170324007 Sterling Ranch MD

Report Date: 04/06/17 Collection Date: 03/23/17 08:03 DateReceived: 03/28/17 Matrix: Groundwater

Analyses	Result Units	Qualifiers RL	MCL/ QCL Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPO	UNDS			
Surr: Terphenyl-d14	70.0 %REC	32-122	E625	03/30/17 17:14 / ell-b
Surr: 2,4,6-Tribromophenol	68.0 %REC	21-130	E625	03/30/17 17:14 / eli-b



Prepared by Billings, MT Branch

## Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Ar	alytical Run	R277281
Lab ID: ccv033117	Continuing Ca	libration Verit	fication Standa	ard				03/31	1/17 08:45
Acetone	58.0	ug/L	20	116	70	130			
Acetonitrile	56.4	ug/L	20	113	70	130			
Acrolein	56.4	ug/L	20	113	70	130			
Acrylonitrile	49.6	ug/L	20	99	70	130			
Benzene	5.08	ug/L	0.50	102	70	130			
Bromobenzene	5.04	ug/L	0.50	101	70	130			
Bromochloromethane	5.36	ug/L	0.50	107	70	130			
Bromodichloromethane	4.92	ug/L	0,50	98	70	130			
Bromoform	5.04	ug/L	0.50	101	70	130			
Bromomethane	4,28	ug/L	0.50	86	70	130			
Carbon disulfide	5.32	ug/L	0.50	106	70	130			
Carbon tetrachloride	5.80	ug/L	0.50	116	70	130			
Chlorobenzene	4.56	ug/L	0.50	91	70	130			
Chlorodibromomethane	5.04	ug/L	0.50	101	70	130			
Chloroethane	4.80	ug/L	0.50	96	70	130			
2-Chloroethyl vinyl ether	2.90	ug/L	1.0	58	70	130			S
Chloroform	5.60	ug/L	0.50	112	70	130			
Chloromethane	3,82	ug/L	0.50	76	70	130			
2-Chlorotoluene	5.00	ug/L	0.50	100	70	130			
4-Chiorotoluene	5.44	ug/L	0.50	109	70	130			
1,2-Dibromoethane	4.68	ug/L	0.50	94	70	130			
Dibromomethane	4.96	ug/L	0.50	99	70	130			
1,2-Dichlorobenzene	5.04	ug/L	0.50	101	70	130			
1,3-Dichlorobenzene	5.16	ug/L	0.50	103	70	130			
1,4-Dichlorobenzene	5.00	ug/L	0.50	100	70	130			
Dichlorodifluoromethane	5,20	ug/L	0.50	104	70	130			
1,1-Dichloroethane	4.96	ug/L	0.50	99	70	130			
1,2-Dichloroethane	6.24	ug/L	0.50	125	70	130			
1,1-Dichloroethene	5.12	ug/L	0.50	102	70	130			
cis-1,2-Dichloroethene	4.76	ug/L	0.50	95	70	130			
trans-1,2-Dichloroethene	5.00	ug/L	0.50	100	70	130			
1,2-Dichloropropane	4.88	ug/L	0.50	98	70	130			
1,3-Dichloropropane	4.88	ug/L	0.50	98	70	130			
2,2-Dichloropropane	5.72	ug/L	0.50	114	70	130			
1,1-Dichloropropene	5.44	ug/L	0.50	109	70	130			
cls-1,3-Dichloropropene	4.80	ug/L	0.50	96	70	130			
trans-1,3-Dichloropropene	4.84	ug/L	0.50	97	70	130			
Ethylbenzene	4.88	ug/L	0.50	98	70	130			
Methyl tert-butyl ether (MTBE)	5.20	ug/L	0.50	104	70	130			
Methyl ethyl ketone	54.0	ug/L	20	108	70	130			
Methyl isobutyl ketone	50.4	ug/L	20	101	70	130			
Methylene chloride	5.88	ug/L	0.50	118	70	130			
Naphthalene	5.08	ug/L	0.50	102	70	130			

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

## Report Date: 04/06/17 Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Ar	alytical Run:	R277281
Lab ID: ccv033117	Continuing Ca	libration Verif	ication Stands	ard				03/31	/17 08:45
Styrene	4.52	ug/L	0.50	90	70	130			
Tetrachloroethene	4.68	ug/L	0.50	94	70	130			
1,1,1,2-Tetrachlorcethane	4.72	ug/L	0.50	94	70	130			
1,1,2,2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130			
Toluene	4.76	ug/L	0.50	95	70	130			
Trichlorcethene	4.92	ug/L	0.50	98	70	130			
1,1,1-Trichloroethane	5.72	ug/L	0.50	114	70	130			
1,1,2-Trichloroethane	4.72	ug/L	0.50	94	70	130			
Trichiorofluoromethane	4,88	ug/L	0.50	98	70	130			
1,2,3-Trichloropropane	5.24	ug/L	0.50	105	70	130			
Vinyl Acetate	5.32	ug/L	1.0	106	70	130			
Vinyl chloride	4.60	ug/L	0.50	92	70	130			
m+p-Xylenes	9.32	ug/L	0.50	93	70	130			
o-Xylene	4.52	ug/L	0,50	90	70	130			
Xylenes, Total	13.8	ug/L	0.50	92	70	130			
Surr: 1,2-Dichloroethane-d4			0.50	107	71	139			
Surr: p-Bromofluorobenzene			0.50	102	80	127			
Surr: Toluene-d8			0.50	91	80	123			
Method: E624								Batch:	R277281
Lab ID: [cs033117	Laboratory Co	ntrol Comple			Bue: 5071/	A.I_170331A			/17 09:19
	56.0	ug/L	20	112	55	144		60101	111 00.10
Acetone Acetonitrile	56.8	-	20	114	55 54	144			
Acrolein	42.4	ug/L	20	85	54 16	233			
	48.4	ug/L	20	97	76	127			
Acrylonitrile	40.4	ug/L	20 0.50		78				
Benzene		u <b>g/L</b>		98		122			
Bromobenzene	4.96	ug/L	0.50	99	74	129			
Bromochloromethane	5.16	ug/L	0.50	103	66	120			
Bromodichioromethane	5.16	ug/L	0.50	103	74	128			
Bromoform	5.12	ug/L	0.50	102	66	128			
Bromomethane	4.76	ug/L	0.50	95	51	123			
Carbon disuifide	5.36	ug/L	0.50	107	46	145			
Carbon tetrachloride	5.72	ug/L	0.50	114	75	125			
Chiorobenzene	4.64	ug/L	0.50	93	80	123			
Chiorodibromomethane	5.32	ug/L	0.50	106	74	125			
Chloroethane	4.48	ug/L	0.50	90	59	142			
2-Chloroethyl vinyl ether	2.62	ug/L	1.0	52	36	144			
Chloroform	5.52	ug/L	0.50	110	68	124			
Chloromethane	3.77	ug/L	0.50	75	53	146			
2-Chlorotoluene	5.08	ug/L	0.50	102	75	131			
4-Chlorotoluene	5.36	ug/L	0.50	107	74	129			
1,2-Dibromoethane	4.64	ug/L	0.50	93	76	124			
Dibromomethane	5.16	ug/L	0.50	103	77	125			

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte	<b>Result</b>	Jnits	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R277281
Lab ID: Ics033117	Laboratory Contr	ol Sample			Run: 5971/	A.I_170331A		03/31	/17 09:19
1,2-Dichlorobenzene	4.96 1	ıg/L	0.50	99	74	124			
1,3-Dichlorobenzene	5.12 0	ig/L	0.50	102	77	122			
1,4-Dichlorobenzene	4.96 (	ig/L	0.50	99	76	126			
Dichlorodifluoromethane	5.60 i	ıg/L	0.50	112	56	146			
1,1-Dichloroethane	4.72	íg/L	0.50	94	74	133			
1,2-Dichloroethane	5.76 เ	íg/L	0.50	115	75	129			
1,1-Dichloroethene	5.16 i	ig/L	0.50	103	74	132			
cis-1,2-Dichloroethene	4.88 i	ıg/L	0.50	98	81	122			
trans-1,2-Dichloroethene	5.12 (	ig/L	0.50	102	79	143			
1,2-Dichloropropane	4.60 (	ıg/L	0.50	92	75	126			
1,3-Dichloropropane	4.68 เ	ig/L	0,50	94	71	136			
2,2-Dichloropropane	5.68 נ	ig/L	0.50	114	68	142			
1,1-Dichloropropene	5.00 u	ig/L	0.50	100	70	131			
cis-1,3-Dichloropropene	4.40 (	ıg/L	0.50	88	74	135			
trans-1,3-Dichloropropene	4.84 (	ıg/L	0.50	97	76	149			
Ethylbenzene	4.96 (	ıg/L	0.50	99	72	130			
Methyl tert-butyl ether (MTBE)	5.12 u	ig/L	0.50	102	72	120			
Methyl ethyl ketone	52.0 L	ig/L	20	104	45	130			
Methyl isobutyl ketone	50.8 L	ig/L	20	102	58	135			
Methylene chloride	6.08 L	ig/L	0.50	122	66	142			
Naphthalene	5.60 L	ig/L	0.50	112	69	124			
Styrene	4.56 L	ig/L	0.50	91	80	124			
Tetrachloroethene	4.72 u	ig/L	0.50	94	72	131			
1,1,1,2-Tetrachloroethane		g/L	0.50	93	78	124			
1,1,2,2-Tetrachloroethane		lg/L	0.50	95	68	137			
Toluene		ig/L	0.50	95	72	135			
Trichloroethene		ig/L	0.50	96	85	126			
1,1,1-Trichloroethane	5.40 u	ig/L	0.50	108	63	120			
1,1,2-Trichloroethane		ig/L	0.50	90	78	124			
Trichlorofluoromethane		g/L	0.50	90	72	120			
1,2,3-Trichloropropane		g/L	0.50	94	64	138			
Vinyl Acetate		g/L	1.0	95	31	124			
Vinyi chloride		g/L	0.50	95	58	140			
m+p-Xylenes		g/L	0.50	91	67	139			
o-Xylene		g/L	0.50	90	74	135			
Xylenes, Total	13.6 u	g/L	0.50	90	70	137			
Surr: 1,2-Dichloroethane-d4			0,50	109	71	139			
Surr: p-Bromofluorobenzene			0.50	102	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: bik033117	Method Blank				Run: 5971A			03/31	17 10:18
Acetone	ND u	g/L	20						
Acetonitrile	ND u	g/L	20						

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte	Result	Units	RL	%REC Low Limit Hig	ih Limit	RPD	RPDLimit	Quai
Method: E624							Batch:	R277281
Lab (D: bik033117	Method Blank			Run: 5971A.I_1	70331A		03/31	/17 10:18
Acrolein	ND	ug/L	20	_				
Acrylonitrile	ND	ug/L	20					
Benzene	ND	ug/L	0.50					
Bromobenzene	ND	ug/L	0.50					
Bromochloromethane	ND	ug/L	0.50					
Bromodichloromethane	ND	ug/L	0.50					
Bromoform	ND	ug/L	0.50					
Bromomethane	ND	ug/L	0.50					
Carbon disulfide	ND	ug/L	0.50					
Carbon tetrachloride	ND	ug/L	0.50					
Chlorobenzene	ND	ug/L	0.50					
Chlorodibromomethane	ND	ug/L	0.50					
Chloroethane	ND	ug/L	0.50					
2-Chloroethyl vinyl ether	ND	ug/L	1.0					
Chloroform	ND	ug/L	0.50					
Chloromethane	ND	ug/L	0.50					
2-Chiorotoluene	ND	ug/L	0.50					
4-Chiorotoluene	ND	ug/L	0.50					
1,2-Dibromoethane	ND	ug/L	0.50					
Dibromomethane	ND	ug/L	0.50					
1.2-Dichlorobenzene	ND	ug/L	0.50					
1,3-Dichlorobenzene	ND	ug/L	0.50					
1,4-Dichlorobenzene	ND	ug/L	0.50					
Dichlorodifiuoromethane	ND	ug/L	0.50					
1,1-Dichloroethane	ND	ug/L	0.50					
1,2-Dichloroethane	ND	ug/L	0.50					
1,1-Dichloroethene	ND	ug/L	0.50					
cis-1,2-Dichloroethene	ND	ug/L	0.50					
trans-1,2-Dichloroethene	ND	ug/L	0.50					
1,2-Dichloropropane	ND	ug/L	0.50					
1,3-Dichloropropane	ND	ug/L	0.50					
	ND	-	0.50					
2,2-Dichloropropane	ND	ug/L	0.50					
1,1-Dichloropropene		ug/L						
cis-1,3-Dichloropropene	ND	ug/L	0.50					
trans-1,3-Dichloropropene	ND	ug/L	0.50					
Ethylbenzene Mathyl tart hutul athen (MTRE)	ND	ug/L	0.50					
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50					
Methyl ethyl ketone	ND	ug/L	20					
Methyl isobutyl ketone	ND	ug/L	20					
Methylene chloride	ND	ug/L	0.50					
Naphthalene	ND	ug/L	0.50					
Styrene	ND	ug/L	0.50					
Tetrachloroethene	ND	ug/L	0.50					

#### **Qualifiers:**

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R27728
Lab (D: bik033117	Method Blank	t			Run: 5971/	A.I_170331A		03/31	/17 10:18
1,1,1,2-Tetrachloroethau	ne ND	ug/L	0.50						
1,1,2,2-Tetrachloroetha	ne ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
I,1,1-Trichloroethane	ND	ug/L	0.50						
1,1,2-Trichloroethane	ND	ug/L	0.50						
richlorofluoromethane	ND	u <b>g/L</b>	0.50						
1,2,3-Trichloropropane	ND	ug/L	0.50						
/inyl Acetate	ND	ug/L	1.0						
/inyl chloride	ND	ug/L	0.50						
n+p-Xylenes	ND	ug/L	0.50						
-Xylene	ND	ug/L	0.50						
(yienes, Total	ND	ug/L	0.50						
Surr: 1,2-Dichloroetha	ane-d4	-	0.50	105	71	139			
Surr: p-Bromofluorob			0.50	104	80	127			
Surr: Toluene-d8			0.50	92	80	123			
ab  D: b1703187	5-001dms Sample Matrix	x Spike			Run: 5971/	A.I_170331A		03/31	/17 14:1:
cetone	378	u <b>g/L</b>	100	109	55	144			
cetonitrile	274	ug/L	100	110	54	142			
lenzene	24.6	ug/L	2.5	98	73	122			
romobenzene	24.8	ug/L	2.5	99	74	129			
romochloromethane	25.2	ug/L	2.5	101	66	120			
romodichloromethane	26.2	ug/L	2.5	105	74	128			
Bromoform	27.0	ug/L	2.5	108	66	128			
Iromomethane	18.8	ug/L	2.5	75	51	123			
Carbon disulfide	26.4	ug/L	2.5	106	46	145			
Carbon tetrachloride	28.2	ug/L	2,5	113	75	125			
chiorobenzene	22.8	ug/L	2.5	91	80	123			
hlorodibromomethane	26.8	ug/L	2.5	107	74	125			
Chloroethane	20.2	ug/L	2.5	81	59	142			
Chieroform	33.2	ug/L	2.5	110	68	124			
Chloromethane	18.6	ug/L	2.5	74	53	146			
2-Chlorotoluene	24.8	ug/L	2.5	99	75	131			
-Chlorotoluene	25.8	ug/L	2.5	103	74	129			
,2-Dibromoethane	24.0	ug/L	2.5	96	76	124			
Dibromomethane	26.2	ug/L	2.5	105	77	125			
,2-Dichlorobenzene	24.6	ug/L	2.5	98	74	124			
,3-Dichlorobenzene	24.6	ug/L	2.5	98	77	122			
,4-Dichlorobenzene	24.6	ug/L	2.5	98	76	126			
) Dichlorodifiuoromethane		ug/L	2.5	108	56	146			
,1-Dichloroethane	24.2	ug/L	2.5	97	74	133			
-	29.2	ug/L	2.5	117	75	129			

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R277281
Lab ID: b17031875-001dms	Sample Matri	k Spike			Run: 5971	A.I_170331A		03/31	/17 14:12
1,1-Dichloroethene	26.6	ug/L	2.5	106	74	132			
cis-1,2-Dichloroethene	24.4	ug/L	2.5	98	81	122			
trans-1,2-Dichloroethene	25.8	ug/L	2.5	103	79	143			
1,2-Dichloropropane	23.0	ug/L	2.5	92	75	126			
1,3-Dichloropropane	22.4	ug/L	2.5	90	71	136			
2,2-Dichloropropane	28.0	ug/L	2.5	112	68	142			
1,1-Dichioropropene	25.2	ug/L	2.5	101	70	131			
cis-1,3-Dichloropropene	22.2	ug/L	2.5	89	74	135			
trans-1,3-Dichloropropene	24.6	ug/L	2.5	98	76	149			
Ethylbenzene	23.6	ug/L	2.5	94	72	130			
Methyl tert-butyl ether (MTBE)	25.6	ug/L	2.5	102	72	120			
Methyl ethyl ketone	268	ug/L	100	107	45	130			
Methyl isobutyl ketone	258	ug/L	100	103	58	135			
Methylene chloride	32.2	ug/L	2.5	129	66	142			
Naphthalene	27.6	ug/L	2.5	110	69	124			
Styrene	22.4	ug/L	2.5	90	80	124			
Tetrachloroethene	22.8	ug/L	2.5	91	72	131			
1,1,1,2-Tetrachioroethane	23.0	ug/L	2.5	92	78	124			
1,1,2,2-Tetrachloroethane	26.0	ug/L	2.5	104	68	137			
Toluene	24.4	ug/L	2.5	95	72	135			
Trichloroethene	23.8	ug/L	2.5	95	85	126			
1,1,1-Trichloroethane	26.8	ug/L	2.5	107	63	120			
1,1,2-Trichloroethane	23.4	ug/L	2.5	94	78	124			
Trichlorofluoromethane	21.2	ug/L	2.5	85	72	120			
1,2,3-Trichloropropane	26.2	ug/L	2.5	105	64	138			
Vinyl Acetate	24.4	ug/L	5.0	98	31	124			
Vinyl chloride	22.6	ug/L	2.5	90	58	140			
m+p-Xylenes	44.8	ug/L	2.5	90	67	139			
o-Xylene	22.6	ug/L	2.5	90	74	135			
Xylenes, Total	67.4	ug/L	2.5	90	70	137			
Surr: 1,2-Dichloroethane-d4			2.5	110	71	139			
Surr: p-Bromofluorobenzene			2.5	102	80	127			
Surr: Toluene-d8			2.5	93	80	123			
Lab ID: b17031875-001dmsd	Sample Matrix	Spike Duplicate			Run: 5971/	.I_170331A		03/31	/ <b>17 15:1</b> 1
Acetone	410	ug/L	100	122	55	144	8.1	20	
Acetonitrile	262	ug/L	100	105	54	142	4.5	20	
Benzene	25.0	ug/L	2.5	100	73	122	1.6	20	
Bromobenzene	25.6	ug/L	2.5	102	74	129	3.2	20	
Bromochloromethane	25,2	ug/L	2.5	101	66	120	0.0	20	
Bromodichloromethane	27.2	ug/L	2.5	109	74	128	3.7	20	
Bromoform	28.4	ug/L	2.5	114	66	128	5.1	20	
Bromomethane	20.8	ug/L	2.5	83	51	123	10	20	

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPOLimit	Qual
Method:	E624								Batch:	R27728
Lab ID:	b17031875-001dmsd	Sample Matrix	c Spike Duplicate			Run: 5971/	A.I_170331A		03/31	/17 15:11
Carbon dis	ulfide	25.6	ug/L	2.5	102	46	145	3.1	20	
Carbon tet	rachloride	28.6	ug/L	2.5	114	75	125	1.4	20	
Chlorobena	zene	23.6	ug/L	2.5	94	80	123	3.4	20	
Chlorodibro	omomethane	28.0	ug/L	2.5	112	74	125	4.4	20	
Chloroetha	ine	20.6	ug/L	2.5	82	59	142	2.0	20	
Chloroform	1	33.6	ug/L	2.5	111	68	124	1.2	20	
Chlorometi	hane	19.3	ug/L	2.5	77	53	146	3.8	20	
2-Chloratol	luene	26.4	ug/L	2.5	106	75	131	6.2	20	
4-Chlorotol	uene	27.2	ug/L	2.5	109	74	129	5.3	20	
1.2-Dibrom	oethane	24.0	ug/L	2.5	96	76	124	0.0	20	
Dibromome	ethane	26.8	ug/L	2.5	107	77	125	2.3	20	
1,2-Dichlor		25.8	ug/L	2.5	103	74	124	4.8	20	
1,3-Dichlor		26.0	ug/L	2.5	104	77	122	5.5	20	
1,4-Dichior		25.4	ug/L	2.5	102	76	126	3.2	20	
	luoromethane	25.8	ug/L	2.5	103	56	146	4.5	20	
1,1-Dichlor		24.8	ug/L	2.5	99	74	133	2.4	20	
1,2-Dichlor		29.2	ug/L	2.5	117	75	129	0.0	20	
1,1-Dichlor		26.8	ug/L	2.5	107	74	132	0.7	20	
•	hloroethene	25.2	ug/L	2.5	101	81	122	3.2	20	
	lichloroethene	26.4	ug/L	2.5	106	79	143	2.3	20	
1,2-Dichlor		23.6	ug/L	2.5	94	75	126	2.6	20	
1,3-Dichlor	• •	23.8	ug/L	2.5	95	71	136	6.1	20	
2,2-Dichlor		28.6	ug/L	2.5	114	68	142	2.1	20	
1,1-Dichlor		25.8	ug/L	2.5	103	70	131	2.4	20	
•	hloropropene	23.2	ug/L	2.5	93	74	135	4.4	20	
	lichloropropene	25.4	ug/L	2.5	102	76	149	3.2	20	
Ethylbenze		25.0	ug/L	2.5	100	72	130	5,8	20	
	-butyl ether (MTBE)	26.6	ug/L	2.5	106	72	120	3.8	20	
Methyl ethy		292	ug/L	100	117	45	130	8.6	20	
	putyl ketone	286	ug/L	100	114	43 58	135	10	20	
		31.4		2.5	126	66	142	2.5	20	
Methylene Naphthaler		27.8	ug/L	2.5	111	69	142	0.7	20	
	16	27.8	ug/L	2.5	91		124	1.8	20	
Styrene	- the		ug/L			80				
		23.8	ug/L	2,5 2.5	95 93	72 78	131 124	4.3 0,9	20 20	
	rachloroethane	23.2	ug/L							
	rachloroethane	27.4	ug/L	2.5	110	68	137	5.2	20	
Toluene Trick(croot)		24.4	ug/L	2.5	95 100	72	135	0.0	20	
Trichloroeti		25.0	ug/L	2.5	100	85	126	4.9	20	
	loroethane	27.4	ug/L	2.5	110	63	120	2.2	20	
1,1,2-Trich		24.8	ug/L	2.5	99	78	124	5.8	20	
	oromethane	22.4	ug/L	2.5	90	72	120	5.5	20	
	loropropane	26.8	ug/L	2.5	107	64	138	2.3	20	
Vinyl Aceta	te	24.4	ug/L	5.0	98	31	124	0.0	20	

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E624								Batch:	R277281
Lab ID:	b17031875-001dmsd	Sample Matrix	k Spike Duplicate			Run: 5971/	A.I_170331A		03/31	/17 15:11
Vinyl chlo	ride	22.8	ug/L	2.5	91	58	140	0.9	20	
m+p-Xyler	nes	46.0	ug/L	2.5	92	67	139	2.6	20	
o-Xylene		23.4	ug/L	2.5	94	74	135	3.5	20	
Xylenes, 1	Total	69.4	ug/L	2.5	93	70	137			
Surr: 1,	2-Dichloroethane-d4			2.5	112	71	139			
Surr: p-	Bromofluorobenzene			2.5	105	80	127			
Surr: To	oluene-d8			2.5	93	80	123			



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

### Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Bato	h: 107942
Lab ID:	MB-107942	Method Blank				Run: SV59	73N2.I_170330B		03/30	0/17 16:12
Acenaphthe	ene	ND	ug/L	10						
Acenaphth)	/lene	ND	ug/L	10						
Anthracene		ND	ug/L	10						
Azobenzen	e	ND	ug/L	10						
<b>Benzidine</b>		ND	ug/L	10						
Benzo(a)an	thracene	ND	ug/L	10						
Benzo(a)py	rene	ND	ug/L	10						
Benzo(b)fiu	oranthene	ND	ug/L	10						
Benzo(g,h,i	)perylene	ND	ug/L	10						
Benzo(k)flu	oranthene	ND	ug/L	10						
4-Bromophe	enyl phenyl ether	ND	ug/L	10						
Butylbenzyl	phthalate	ND	ug/L	10						
4-Chloro-3-	methylphenol	ND	ug/L	10						
bis(-2-chior	oethoxy)Methane	ND	ug/L	10						
bis(-2-chlore	pethyl)Ether	ND	ug/L	10						
bis(2-chloro	isopropyl)Ether	ND	ug/L	10						
2-Chlorona	ohthalene	ND	ug/iL	10						
2-Chloroph	BNO	ND	ug/L	10						
4-Chlorophe	anyl phenyl ether	ND	ug/L	10						
Chrysene		ND	ug/L	10						
Diethyl phth	alate	ND	ug/L	10						
Di-n-butyl p	hthalate	ND	ug/L	10						
1,2-Dichloro	benzene	ND	ug/L	10						
1,3-Dichlord	benzene	ND	ug/L	10						
1,4-Dichlord	benzene	ND	ug/L	10						
3,3'-Dichlor	obenzidine	ND	ug/L	10						
2,4-Dichloro	phenol	ND	ug/L	10						
Dimethyl ph		ND	ug/L	10						
Di-n-octyl pl		ND	ug/L	10						
	i)anthracene	ND	ug/L	10						
2,4-Dimethy	•	ND	ug/L	10						
	2-methylphenol	ND	u <b>g</b> /L	50						
2,4-Dinitrop		ND	ug/L	50						
2,4-Dinitroto		ND	ug/L	10						
2,6-Dinitroto		ND	ug/L	10						
	exyl)Phthalate	ND	ug/L	10						
Fluoranthen	e	ND	ug/L	10						
Fluorene		ND	ug/L	10						
Hexachlorol		ND	ug/L	10						
Hexachlorol		ND	ug/L	10						
	cyclopentadiene	ND	ug/L	10						
Hexachloroe		ND	ug/L	10						
Indeno(1,2,	3-cd)pyrene	ND	ug/L	10						

#### **Qualifiers:**

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte	Result U	nits Ri	. %REC	Low Limit	High Limit	RPD	RPDLimit	Quai
Method: E625							Batcl	n: <b>10794</b> 2
Lab ID: MB-107942	Method Blank			Run: SV59	73N2.I_170330B		03/30	/17 16:12
Isophorone	ND uş	g/L 10						
n-Nitrosodimethylamine	ND ug	g/L 10						
n-Nitroso-di-n-propylamine	ND uş	g/L 10						
n-Nitrosodiphenylamine	ND uş	g/L 10						
2-Nitrophenol	ND uş	<b>j/L 1</b> 0						
4-Nitrophenol	ND uş	g/L 50						
Naphthalene	ND uş	g/L 10						
Nitrobenzene	ND uş	g/L 10						
Pentachlorophenol	ND uş	g/L 58						
Phenanthrene	ND uş	g/L 10						
Phenol	ND ug	g/L 10						
Pyrene	ND uç	g/L 10						
1,2,4-Trichlorobenzene	ND uş	g/L 10						
2,4,6-Trichlorophenol	ND ug	g/L 10						
Surr: 2-Fluorobiphenyl		10	57	28	107			
Surr: 2-Fluorophenol		10	42	20	56			
Surr: Nitrobenzene-d5		10	62	32	94			
Surr: Phenol-d5		10	30	19	45			
Surr: Terphenyl-d14		10	80	32	122			
Surr: 2,4,6-Tribromophenol		10	68	21	130			
Lab ID: LCS-107942	Laboratory Control	i Sampie		Run: SV59	73N2. _170330B		03/30	/17 16:43
Acenaphthene	89.1 ug	g/L 10		58	99			
Acenaphthylene	<b>84.2</b> ug	g/L 10		57	96			
Anthracene	75.6 ug	g/L 10		60	107			
Azobenzene	78.0 ug	g/L 10		56	100			
Benzidine	53.1 ug	g/L 10	53	10	100			
Benzo(a)anthracene	86.4 ug	g/L 10		62	114			
Benzo(a)pyrene	84.7 ug	g/L 10		62	108			
Benzo(b)fluoranthene	gu 8.68	g/L 10		48	127			
Benzo(g,h,i)perylene	87.2 ug	g/L 10		62	121			
Benzo(k)fluoranthene	84.0 ug	g/L 10		55	111			
4-Bromophenyl phenyl ether	87.1 uç	g/L 10	87	58	105			
Butylbenzylphthalate	90.8 ug	g/L 10	91	60	113			
4-Chloro-3-methyiphenoi	74.6 ug	g/L 10		53	92			
bis(-2-chloroethoxy)Methane	69.9 ug	g/L 10		50	92			
bis(-2-chloroethyl)Ether	72.1 ug	g/L 10		44	82			
bis(2-chloroisopropyl)Ether		g/L 10		56	87			
2-Chloronaphthalene		g/L 10		56	95			
2-Chlorophenol		J/L 10		47	76			
4-Chlorophenyl phenyl ether		g/L 10		58	99			
Chrysene		g/L 10		63	106			
Diethyl phthalate	84.6 ug	y/L 10	85	58	103			

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625		·						Batc	h: 107942
Lab ID: LCS-107942	Laboratory Con	froi Sample			Run: SV59	73N2.I_170330B		03/30	)/17 16:43
Di-n-butyl phthalate	87.1	ug/L	10	87	61	110			
1,2-Dichlorobenzene	69.3	ug/L	10	69	43	81			
1,3-Dichlorobenzene	64.0	ug/L	10	64	41	79			
1,4-Dichlorobenzene	64.5	ug/L	10	64	42	79			
3,3'-Dichlorobenzidine	64.8	ug/L	10	65	51	93			
2,4-Dichlorophenol	70.6	ug/L	10	71	49	90			
Dimethyl phthalate	82.5	ug/L	10	82	58	104			
Di-n-octyl phthalate	93.4	ug/L	10	93	56	110			
Dibenzo(a,h)anthracene	87.8	ug/L	10	88	61	111			
2,4-Dimethylphenol	66.2	ug/L	10	66	45	89			
4,6-Dinitro-2-methylphenol	66.1	u <b>g</b> /L	50	66	37	105			
2,4-Dinitrophenol	54.1	ug/L	50	54	27	81			
2,4-Dinitrotoluene	86.2	ug/L	10	86	63	110			
2,6-Dinitrotoluene	77.2	u <b>g/L</b>	10	77	60	107			
bis(2-ethylhexyl)Phthalate	86.0	ug/L	10	86	56	108			
Fluoranthene	84.2	ug/L	10	84	63	110			
Fluorene	89.3	ug/L	10	89	60	99			
Hexachlorobenzene	82.7	ug/L	10	83	57	103			
Hexachiorobutadiene	71.7	ug/L	10	72	39	83			
Hexachiorocyclopentadlene	81.0	ug/L	10	81	39	91			
Hexachloroethane	65.0	ug/L	10	65	37	75			
Indeno(1,2,3-cd)pyrene	83.2	ug/L	10	83	59	109			
Isophorone	69.8	ug/L	10	70	42	102			
n-Nitrosodimethylamine	36.8	ug/L	10	37	20	45			
n-Nitroso-di-n-propylamine	76.6	ug/L	10	77	49	98			
n-Nitrosodiphenyiamine	91.5	ug/L	10	92	61	108			
2-Nitrophenol	72.3	ug/L	10	72	51	96			
4-Nitrophenol	27.4	ug/L	50	27	15	36			
Naphthalene	<b>68.</b> 1	ug/L	10	68	48	96			
Nitrobenzene	77.9	ug/L	10	78	51	91			
Pentachiorophenol	72.4	ug/L	50	72	53	109			
Phenanthrene	82.0	ug/L	10	82	58	104			
Phenol	40.6	ug/L	10	41	27	45			
Pyrene	85.0	ug/L	10	85	64	108			
1,2,4-Trichlorobenzene	71.2	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	73.9	ug/L	10	74	47	99			
Surr: 2-Fluorobiphenyl			10	69	28	107			
Surr: 2-Fluorophenol			10	42	20	56			
Surr: Nitrobenzene-d5			10	72	32	94			
Surr: Phenoi-d5			10	36	19	45			
Surr: Terphenyl-d14			10	80	32	122			
Surr: 2,4,6-Tribromophenoi			10	70	21	130			

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Batcl	h: 107942
Lab (D:	C17030850-001CMS	Sample Matrix	x Spike			Run: SV59	73N2.I_1703308	ł	03/30	/17 17:45
Acenaphthe	ene	86.7	ug/L	10	87	58	- 99			
Acenaphth	ylene	75.5	ug/L	10	76	57	96			
Anthracene	)	81.6	ug/L	10	82	60	107			
Azobenzen	e	84.6	ug/L	10	85	56	100			
Benzidine		122	ug/L	20	122	10	100			S
Benzo(a)an	thracene	83.4	ug/L	10	83	62	114			
Benzo(a)py	rene	78.4	ug/L	10	78	62	108			
Benzo(b)flu	oranthene	79.9	ug/L	10	80	48	127			
Benzo(g,h,i	)perylene	83.2	ug/L	10	83	62	121			
Benzo(k)flu	oranthene	84.5	ug/L	10	84	55	111			
4-Bromoph	enyl phenyl ether	79.5	ug/L	10	79	58	105			
Butylbenzyl	phthalate	89.2	ug/L	10	89	60	113			
4-Chloro-3-	methylphenol	78,3	ug/L	10	78	53	92			
	oethoxy)Methane	77.9	ug/L	10	78	50	92			
bis(-2-chlor	oethyl)Ether	71.5	ug/L	10	71	44	82			
•	visopropyl)Ether	58.4	ug/L	10	58	56	87			
2-Chlorona	phthalene	77.6	ug/L	10	78	56	95			
2-Chloroph		63.7	ug/L	10	64	47	76			
4-Chioroph	enyi phenyi ether	81.0	ug/L	10	81	58	99			
Chrysene		85.9	ug/L	10	86	63	106			
Diethyl phth	nalate	84.0	ug/L	10	84	58	103			
Di-n-butyl p	hthalate	87.0	ug/L	10	87	61	110			
1,2-Dichlord		67.3	ug/L	10	67	43	81			
1,3-Dichloro		66.0	ug/L	10	66	41	79			
1,4-Dichloro		66.7	ug/L	10	67	42	79			
3,3'-Dichlor		131	ug/L	10	131	51	93			S
2,4-Dichlord	-	70.0	ug/L	10	70	49	90			
Dimethyl ph		79.3	ug/L	10	79	58	104			
Di-n-octyi pi		81.8	ug/L	10	82	56	110			
	)anthracene	80.1	ug/L	10	80	61	111			
2,4-Dimethy		70.7	ug/L	10	71	45	87			
	2-methylphenol	53.1	ug/L	50	53	37	105			
2,4-Dinitrop		43.0	ug/L	50	43	27	81			
2,4-Dinitroto		85.6	ug/L	10	86	63	110			
2,6-Dinitroto		81.5	ug/L	10	81	60	107			
	exyl)Phthalate	77.5	ug/L	10	77	56	108			
Fluoranthen	e	84.0	ug/L	10	84	63	110			
Fluorene		80.0	ug/L	10	80	60	89			
Hexachlorot		78.2	ug/L	10	78	57	103			
Hexachlorot		69.1	ug/L	10	69	39	83			
	cyclopentadiene	69.0	ug/L	10	69	39	91			
Hexachloroe		62.6	ug/L	10	63	37	75			
Indeno(1,2,3	3-cd)pyrene	76.3	ug/L	10	7 <del>6</del>	59	109			

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625								Batc	h: 107942
Lab ID: C17030850-001CMS	Sample Matrix	c Spike			Run: SV59	73N2.I_170330B		03/30	/17 17:45
lsophorone	71.4	ug/L	10	71	42	102			
n-Nitrosod/methylamine	26.1	ug/L	10	26	20	45			
n-Nitroso-di-n-propylamine	76.1	ug/L	10	76	49	98			
n-Nitrosodiphenylamine	105	ug/L	10	105	61	108			
2-Nitrophenol	73.5	ug/L	10	74	51	96			
4-Nitrophenol	25.8	ug/L	50	26	15	36			
Naphthalene	75.6	ug/L	10	76	48	96			
Nitrobenzene	75 <b>.6</b>	ug/L	10	76	51	91			
Pentachlorophenol	60.3	ug/L	50	60	53	109			
Phenanthrene	83.8	ug/L	10	84	58	104			
Phenol	38.7	ug/L	10	39	27	45			
Pyrene	87.0	ug/L	10	87	64	108			
1,2,4-Trichlorobenzene	74.7	ug/L	10	75	49	85			
2,4,6-Trichlorophenol	68.8	ug/L	10	69	47	99			
Surr: 2-Fluorobiphenyl			10	51	28	107			
Surr: 2-Fluorophenol			10	41	20	56			
Surr: Nitrobenzene-d5			10	64	32	94			
Surr: Phenol-d5			10	33	19	45			
Surr: Terphenyl-d14			10	73	32	122			
Surr: 2,4,6-Tribromophenol			10	67	21	130			



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							An	alytical Run:	R277253
Lab ID: 30-Mar-17_CCV	_11 Continuing C	alibration V	erification Standa	rd				03/30	)/17 15:40
Acenaphthene	75.3	ug/L	10	100	80	120			
Acenaphthylene	79.7	ug/L	10	106	80	120			
Anthracene	75.2	ug/L	10	100	80	120			
Azobenzene	75.1	ug/L	10	100	80	120			
Benzidine	70.6	ug/L	10	94	80	120			
Benzo(a)anthracene	76.3	ug/L	10	102	80	120			
Benzo(a)pyrene	81.9	ug/L	10	109	80	120			
Benzo(b)fluoranthene	78.3	ug/L	10	104	80	120			
Benzo(g,h,l)perylene	78.0	ug/L	10	104	80	120			
Benzo(k)fluoranthene	81.6	ug/L	10	109	80	120			
4-Bromophenyl phenyl ether	81.6	ug/L	10	109	80	120			
Butylbenzylphthalate	78.0	ug/L	10	104	80	120			
4-Chloro-3-methylphenol	76.0	ug/L	10	101	80	120			
bis(-2-chloroethoxy)Methane	70.4	ug/L	10	94	80	120			
bis(-2-chloroethyl)Ether	77.2	ug/L	10	103	80	120			
bis(2-chloroisopropyl)Ether	76.7	ug/L	10	102	80	120			
2-Chloronaphthalene	79.8	ug/L	10	106	80	120			
2-Chlorophenol	72.7	ug/L	10	97	80	120			
4-Chlorophenyl phenyl ether	72.7	ug/L	10	97	80	120			
Chrysene	74.9	ug/L	10	100	80	120			
Diethyl phthalate	76.8	ug/L	10	102	80	120			
Di-n-butyl phthalate	76.9	ug/L	10	102	80	120			
1,2-Dichlorobenzene	76.8	ug/L	10	102	80	120			
1,3-Dichlorobenzene	72.1	ug/L	10	96	80	120			
1,4-Dichlorobenzene	74.8	ug/L	10	100	80	120			
3,3'-Dichlorobenzidine	76.2	ug/L	10	102	80	120			
2,4-Dichlorophenol	73.5	ug/L	10	98	80	120			
Dimethyl phthalate	77.0	ug/L	10	103	80	120			
Di-n-octyl phthalate	81.2	ug/L	10	108	80	120			
Dibenzo(a,h)anthracene	76.2	ug/L	10	102	80	120			
2,4-Dimethylphenol	70.3	ug/L	10	94	80	120			
4,6-Dinitro-2-methylphenol	77.4	ug/L	50	103	80	120			
2,4-Dinitrophenol	80.2	ug/L	50	107	80	120			
2,4-Dinitrotoluene 2,6-Dinitrotoluene	79.8	ug/L	10	106	80	120			
•	80.8	ug/L	10	108	80	120			
bis(2-ethylhexyi)Phthalate Fluoranthene	77.3	ug/L	10	103	80	120			
Fluorene	76.8 82.8	ug/L	10	102	80 80	120			
Hexachiorobenzene	82.8 74.2	ug/L	10	110	80	120			
Hexachlorobutadiene	74.2	ug/L	10	99	80 80	120			
Hexachiorocyclopentadiene	73.0 79.2	ug/L	10	97 106	80 80	120			
Hexachloroethane	79.2 74.4	ug/L	10 10	106	80	120			
Indeno(1,2,3-cd)pyrene	74.4	ug/L		99 08	80 80	120			
	£3.5	ug/L	10	98	80	120			

**Qualifiers:** 

RL - Analyte reporting limit.



-

## **QA/QC Summary Report**

Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

## Report Date: 04/06/17 Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Ar	aiytical Run:	R277253
Lab ID: 30-Mar-17_CCV_11	Continuing Ca	libration Verifi	cation Standa	urd				03/30	)/17 15:40
Isophorone	71.5	ug/L	10	95	80	120			
n-Nitrosodimethylamine	79.5	ug/L	10	106	80	120			
n-Nitroso-di-n-propylamine	76.0	ug/L	10	101	80	120			
n-Nitrosodiphenylamine	77.5	ug/L	10	103	80	120			
2-Nitrophenol	74.6	ug/L	10	99	80	120			
4-Nitrophenol	72.4	ug/L	50	97	80	120			
Naphthalene	68.4	ug/L	10	91	80	120			
Nitrobenzene	77.1	ug/L	10	103	80	120			
Pentachlorophenol	71.7	ug/L	50	96	80	120			
Phenanthrene	70,9	ug/L	10	95	80	120			
Phenol	79.0	ug/L	10	105	80	120			
Pyrene	79.0	ug/L	10	105	80	120			
1,2,4-Trichlorobenzene	73.1	ug/L	10	98	80	120			
2,4,6-Trichlorophenol	71.0	ug/L	10	95	80	120			
Surr: 2-Fluorobiphenyl			10	108	80	120			
Surr: 2-Fluorophenol			10	105	80	120			
Surr: Nitrobenzene-d5			10	101	80	120			
Surr: Phenol-d5			10	102	80	120			
Surr: Terphenyl-d14			10	104	80	120			
Surr: 2,4,6-Tribromophenol			10	105	80	120			



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW8260M							1	Analytical Ru	n: 108173
Lab ID:	CCV-108173	Continuing Ca	libration Verificatio	n Standa	ırd				04/06	/17 08:29
1,4-Dioxane		95.7	ug/L	1.0	96	80	120			
Method:	SW8260M								Batcl	h: 108173
Lab ID:	LCS-108173	Laboratory Co	ntrol Sample			Run: VOA	973A.I_170406A		04/06	/17 08:51
1,4-Dioxane		87.5	ug/L	1.0	88	70	130			
Lab ID:	MB-108173	Method Blank				Run: VOA5	973A.I_170406A		04/06	/17 09:12
1,4-Dioxane		ND	ug/L	1.0						
Lab ID:	C17030850-001AMS	Sample Matrix	Spike			Run: VOA5	973A.I_170406A		04/06	/17 09:55
1,4-Dioxane		194	ug/L	2.0	97	70	130			
Lab (D:	C17030850-001AMSD	Sample Matrix	Spike Duplicate			Run: VOA5	973A.I_170406A		04/06	/17 10:17
1,4-Dioxane		206	ug/L	2.0	103	70	130	6.0	20	



C17030850

## Work Order Receipt Checklist

## Colorado Analytical Laboratories Inc

Login completed by:	Corinne Wagner		Date	Received: 3/28/2017	
Reviewed by:	Kasey Vidick		Re	ceived by: ckw	
Reviewed Date:	3/29/2017		Car	rier name: Ground	
Shipping container/cooler in	good condition?	Yes 🖌	No 🗌	Not Present	
Custody seals intact on all sh	hipping container(s)/cooler(s)?	Yes	No 🗌	Not Present 🗹	
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present	
Chain of custody present?		Yes 🗹	No		
Chain of custody signed whe	n relinguished and received?	Yes 🗸	No 🗌		
Chain of custody agrees with	sample labels?	Yes 🗹	No 🗌		
Samples in proper container/	bottle?	Yes 🗹	No 🗌		
Sample containers intact?		Yes 🗸	No 🗌		
Sufficient sample volume for	indicated test?	Yes 🗸	No 🗌		
Ail samples received within h (Exclude analyses that are co such as pH, DO, Res Cl, Sul	onsidered field parameters	Yes 🗹	No 🗌		
Temp Blank received in all st	hipping container(s)/cooler(s)?	Yes 🗌	No 🗸	Not Applicable	
Container/Temp Blank tempe	rature:	6,6°C On Ice -	From Field		
Water - VOA vials have zero	headspace?	Yes 🗹	No 🗌	No VOA vials submitted	
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable	

## **Standard Reporting Procedures:**

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## **Contact and Corrective Action Comments:**

None

	Latorado Analytical	Brighton Lab	240 South Main Street Brighton, CO 80601	Lakewood Lab	Lakewood CO 80228	L Phone: 303-659-2313 Fax: 303-659-2315	www.coloradolab.com			UTABOSO				· · · · · · · · · · · · · · · · · · ·							Seals Present Yes D No D UPS - C	Temp. 0 0. Clice YCS Sample Pres. Yes □ No □	Received By: Date/Time:	NDS X X-1
	Project Name	170324007	Sterling Ranch MD	Task Number (Lab Use Only)	CAL Task No. CS-1		ARF 1.0 - 0	Disposal Date(Lab Use Only)					oid- IsiJ g	2005 : 1007 ; 10104	¢79 978						Seals P	C/S Charge [] Temp.		Y. 11 I
Chain of Custody Form	Bill To Information (If different from report to)	Company Name: Same	Contact Name:	Address:		City State Zip	Phone: Fax:	Email:	PO No.:			Tissue	k Ou		or (						C/S Info:	Deliver Via:	Date/Time:	
		Company Name: <u>Colorado Analytical Laboratoy</u>	vielson			State <u>CO</u> Zip <u>80601</u>	Fax:303-659-2315	oloradolab.com				Soil	Sladge	Compost		I 70324007 Sterling Ranch MD					rgy Labs		Date/Time: Received By: 3/27/17	1 00L/ .
	Report To Information	Company Name: Color.	Contact Name: Stuart Nielson	Address: D. Dou Son	240 S Main St		Phone:303-659-2313	Email: stuarmielson@coloradolab.com	Sample Collector:		の現代では、おけんは、自己の意思	Waste Water	Ground Water 🛛	Surface Water		3/23/17 08:03					Instructions:UPS to Energy Labs		Refinquished By:	1-11-Carcien

**APPENDIX F** 

# FAWA WATER SUPPLY VS CURRENT WATER COMMITMENTS







### *Appendix F* Falcon Area Water and Wastewater Authority Commitments within FAWWA Service Area Update May 15, 2023

		Analys	sis of Water Cor	<u>nmitments</u>				
		Pre	liminary Commitn	nents	Fi	nal Commitments		Volumetric Commitment (300
	Development	Commitment SFE	Supply / Commitment Acre-Feet	Letter or Summary Date/Notes	Commitment SFE	Commitment Acre-Feet	Letter or Summary Date/Notes	yearAcre-feet)
Commitments	The Retreat at TimberRidge Preliminary Plan (Central System Only) Final #1 Final #2 Final #3	167	58.951	April 2018 Report Supplement Nov 2020	59 SFE 78 SFE 30 SFE	20.827 27.53 10.59	23-Aug-20 April 30,2021 July, 2022 (reissued May 15, 2023)	17685.3
	Sterling Ranch Preliminary Plan Phase One	726	255.96	June 2015 Report/Summa Update February 2019	ary II			
Commitments	Sterling Ranch Filing #1 Tract BB (10.545) Branding Iron at Sterling Ranch Filing No. 1 Branding Iron Filing No. 2			opulate reordary 2019	0 51 88	0 17.85 31.07	Tracts Only Summary and Letter Revised Feb 20, 2020 Residential)	5355.0 9321.0
Comr	Sterling Ranch Filing #2 (49 SF lots with 4.29 AF landscaping)				61 (61 SFE w irrigation)	21.59	Includes 4.29 AF Irrigation Revised Jan 21, 2021	6477.0
	Sterling Ranch Filing No 5	72	24.26				Previously Tract B Branding Iron N2	7278.0
	Tract G (19.574) Homestead at Sterling Ranch Filing No. 1 Tract E (29.658) Homestead at Sterling Ranch Filing No. 2 Homestead at Sterling Ranch Filing No 3 (Vacation and Replat)		March 31, 2023 Letter		72 104 -2	25.42 36.71 -0.71	25-Sep-19 6-Mar-23	7624.8 11013.6 -211.5
	Copper Chase at Sterling Ranch resubmittal	142.9	50.45 138 single family lots 12/21/2021 includes 1.39 Ac Park	17-Dec-21	147.68	52.13	October 12, 2022 138 single family lots includes 1.39 Ac Park additonal irrigation	15639.0
	Sterling Ranch Preliminary Plan Phase Two Sterling Ranch Filing #4	214.5	75.719	July, 2020 Re-issue Feb 26, 2021	159 Lots (2.667 Acres Irrigation) Specific Note 1	51.91	School commitment (13 SFE) contained in Branding Iron Filing #2 above	22715.6
	Homestead North at Sterling Ranch Preliminary Plan	147	62.47	Letter November 4, 2020 includes 10.58 AFs irrigation Update Letter Jan 21, 2021			Letter November 4, 2020 includes 10.58 AFs irrigation Update Letter Jan 21, 2021	18741.0
	Homestead North at Sterling Ranch Filing No. 3	77 (5.65 acres irrigation)	41.31	Letter dated June 10, 2022 updated November 3, 2022			Optine Letter San 21, 2021	12393.0
	Foursquare at Sterling Ranch PUD Preliminary Plan	158 High Density Units (1.424 acres irrigation)	50.73	Letter dated June 10, 2022 Update November 3, 2022				15219.0
	Villages at Sterling Ranch East PUD and Preliminary Plan	246 High Density Units (1.934 acres irrigation)	67.58	Letter dated June 10, 2022 Updated December 16, 2022				20274.0
	Sterling Ranch East Preliminary Phase One	761 (28.31 acres irrigation) 35 acre K-8 School	335.68	Letter dated June 10, 2022 Revision October 18, 2022			Note prior commitment for elementary school in Branding Iron No 2	100704.0
	Sterling Ranch East Filing No 1 Sterling Ranch East Filing 1A				294 SFE, 18.809 acres irrigated 42 lots; 1.088 acres irrigation	144.15 16.85	Letter dated November 15, 2022 Letter dated November 15, 2022	
		Total Units	Findings at Prelin	ninary	Units	Fotal Findings at Fin AF	al	
Totals	Total Active Commitments Either actual Finding of Sufficiency or anticipated Finding	1770.5	716.70		523.7	184.063		270228.8

Total Active Commitments (AF) 9

900.76

Specific Note 1; Lolts 147 -157 were previously platted as lots 22-32 Sterling Ranch Filing No. 2 Water was committed under Sterling Ranch Filing No. 2

General Note 1. As of January 1, 2022 the Falcon Area Water and Wastewater Authority is managing all water among various Districts, who are participating agencies. Therefore, water accounting changes were adopted on January 1, that do not separately balance or account for separate water accounting within the respective area. Going forward, the commitment sheet will be streamlined by simply adding the total commitments across the FAWWA participating entities.

General Note 2; Sketch Plans do not have hard commitments and are not shown here. Subdivisions can either have a finding of sufficiency at preliminary or final plat stage. Water reports/commitments are sometimes submitted at both stages, even though suffuciency might be achieved at different stages. In order to attempt to track this possible discrepancy we will show the active water commitment in yellow highlight as best as possible. Summation of active water

General Note 3; Yellow highlight signifies applicable commitments, where commitments have been over-riden, changed or modified and are no longer active, they are not highlighted in yellow

Gneral Note 4; March 6, 2023 was a vacation and replat within Homestead at Sterling Ranch No 2 resulting in a net loss of 2 lots, therefore a negative allocation has been applied

Respec Inc

## APPENDIX G WATER SUPPLY SUMMARY FORM







**RESPEC.COM** 

## WATER SUPPLY INFORMATION SUMMARY

Section 30-28-133,(d), C.R.S. requires that the applicant submit to the County, "Adequate evidence that a Water supply that

is sufficient in terms of quantity, quality, and dependability will be available to ensure an adeuate supply of water"

1. NAME OF DEVELOPMENT	AS PROPOSED			Rettreat at Timberridge Filing N	<u>o 3</u>
2. LAND USE ACTION				<u>Final Plat</u>	
3. NAME OF EXISTING PARC	EL AS RECORDED		<u>N/A</u>		
SUBDIVISION	See Above FILING	G <u>Final Plat</u> BLOCK	<u>A//</u> Lot	<u>All</u>	
4. TOTAL ACERAGE	44.578 5. NUMBE	R OF LOTS PROPOSED	33 PLAT M	APS ENCLOSED YES	Final Plat Separate Cover
6. PARCEL HISTORY - Please	attach copies of deeds, plats, or o	ther evidence or documentation. (In su	ubmittal package)		
A. Was parcel recorded with	county prior to June 1, 1972	?	YES / NO		
B. Has the parcel ever been	part of a division of land acti	ion since June 1. 1972?		VES NO	
If yes, describe the previo					
7. LOCATION OF PARCEL -	Include a map deliniating the p	roject area and tie to a section corner	(In submittal)		
portionsOF	SECTION 21,22, 27, 3	and 28TOWNSHIP 12		□ N 🔽 S	RANGE <u>65</u> E 🗸 W
OF 1SECTIO	N TOWNSHIP				
PRINCIPAL MERIDIAN:		✓ 6TH	UTE	COSTILLA	
8. PLAT - Location of all wells	on property must be plotted ar	nd permit numbers provided.			
Surveyors plat		YES NO		If not, scaled hand -drawn sketch VES	NO N/A
9. ESTIMATED WATER REQ	UIREMENTS - Gallons per Da	y or Acre Foot per Year		10. WATER SUPPLY SOURCE	DENVER BASIN
				SEXISTING DEVELOPED	NEW WELLS
HOUSEHOLD USE # *	30 of units	<u>9,454</u> GPD	<u>10.59</u> AF	WELLS SPRING	Proposed Aquifers - (Check One)
Single Family Wells	3	857	0.96	WELL PERMIT NUMBERS	Alluvial Upper Arapahoe
COMMERCIAL USE #	Acres	GPD	AF	<u>LFH 80131-F</u>	Upper Dawson June Arapahoe
				Arapahoe 80132-F	Lower Dawson 🗸 Laramie Fox Hills
IRRIGATION # **	acres	GPD	AF		Denver Dakota
					Other
STOCK WATERING #	of head	GPD	AF		
				MUNICIPAL	WATER COURT DECREE CASE NUMBERS
OTHER		GPD	AF		
					<u>08 CW-113; 08 CW -018</u>
TOTAL -Central System * 30 Units are on Centra	I System	<u>9,454</u> GPD	<u> </u>		<u>Numerous</u> 18CW3002
				NAME <u>Sterling Ranch Metropolitan Di</u>	• <u> </u>
3 Units will be single	e residence wells au	gmented under 18 CW 3	002	LETTER OF COMMITMENT FOR	
**Irrigation included in over	all use			SERVICE YES NO	
11. ENGINEER'S WATER SU	PPLY REPORT	✓ YES	lf yes, ple	ease forward with this form. (This may be required befor	our review is completed)
12. TYPE OF SEWAGE DISPO	OSAL SYSTEM	Central Sewer			
SEPTIC TANK/LEAG	CH FIELD			NTRAL SYSTEM - DISTRICT NAME:	Sterling Ranch Metropolitan District #1 Falcon Area Water and Watsewater
				JLT - LOCATION SEWAGE HAULED TO:	Authority
ENGINEERED SYS	TEM (Attach a copy of en	ngineering design)	ОТ	HER:	