# WATER RESOURCES REPORT —STERLING RANCH EAST FILING 6 PRELIMINARY PLAN

#### **TOPICAL REPORT**

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PREPARED FOR

Falcon Area Water and Wastewater Authority

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Project Number W0242.22001





#### **EXECUTIVE SUMMARY**

This report is a submittal for Sterling Ranch East Filing 6 Preliminary Plan. The land is to be provided central water and sewer services through the Falcon Area Water and Wastewater Authority (FAWWA), which will become the overall service entity for, not only Sterling Ranch, but also the Retreat and the future Ranch.

It is expected that an urban residential home the Falcon Area Water and Wastewater Authority 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 smaller 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.

Sterling Ranch East Filing 6 Preliminary Plan includes 198 lots, 73 of which fall into high-density development ratios for small lots, and roughly 4.1 annual acre-feet of water set aside for irrigated landscaping.

The resulting water demand on the central water system is 71.46 acre-feet.

The total 300 year water supply for FAWWA is shown in Table 3 and totals 1962.23 annual acre-feet 300 year, Appendix F is an accounting of active water commitments, which total 1105.33 acre-feet including all subdivisions committed through September 27, 2024.

This leaves a net excess of currently available water of 856.9 AF $_{300\,\mathrm{year}}$  and therefore there is more than sufficient water supply to meet the needs of Sterling Ranch East Filing 6 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 Sterling Ranch East Filing 6 Preliminary Plan development.

#### 1.1 NEW DEVELOPMENT DESCRIPTION

The Sterling Ranch East Filing 6 Preliminary Plan development is located east of Vollmer Road and north of Woodmen Road. This 56.13 acre area will include 198 single family lots.

Appendix A contains the Overall Service Area Map for FAWWA,

Appendix B contains the proposed Sterling Ranch East Filing 6

#### 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.

Based on data from other areas, we have established a SFE equivalency factor scale as follows for these smaller lot sizes;

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

Table 1. SFE Equivalency for High Density Lots



Sterling Ranch East Filing 6 Preliminary Plan has irrigated areas within the common areas or tracts that total roughly 3.34 acres. The landscaping plan specifies a Park on Tract B that we estimate to require 23,086 SF of active or permanent active irrigated landscaping.

Using the above criteria, there are 73 lots in the <7000 SF category and 125 lots in the >7000 SF category. The expected water demands are shown in Table 2 following:

Table 2. Projected Water Demands for **Retreat at PrairieRidge Filings 1-3** 

# of Units	Land Use	Water Use Per Unit (AF/Unit)	Annual Demand (AF)	Average Daily Flow (ADF) (GPD)	Maximum Daily Flow (MDF) (@2.45 x ADF) (GPD)	Peak-Hour Flow (@ 1.5 x MDF) (GPM)
0	Residential < 2000 SF	0.23	0	0	0	0
0	Residential < 3500 SF	0.265	0	0	0	0
73	Residential < 7000 SF	0.318	23.21	20724	50773	52.9
125	Residential > 7000 SF	0.353	44.13	39392	96510	100.5
0.53	Acres-Active Net Irrigation	2.5	1.32	1175	2879	2.99
2.81	Acres- Passive Net Irrigation	1.0	2.81	2508	6144.7	6.4
Total			71.46	63799	156308	162.8

The total annual demand of the subdivision is 71.46 AF. PPD water is noted in Table 3 as a debit to supply.



#### 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, Retreat, and Prairie Ridge. Each of these sites has existing decrees and/or determinations outlining the rights associated with the development lands.

Both the water decrees and determinations are included in **Appendix C** as well as the deeds for the water.

Table 3 on the following page details all of the water rights currently available for the FAWWA service area which now total 1962.23 acre-feet  $_{300\,year}$ .



Epilote Septomber 11, 26

#### Table J. Euleon Area Water and Wasternater Authority. Comprehensive Water Supply Inventors. Company Lond Symple.

			-						
Lood	Reference Flading/ Determination/	Tributary	Volume	Annual Allocation	Assessed Attraction	Rolerones Deed	Natos	Sept	Sacrific
Farmation/Aquifor	Berry	Status	111111111111111111111111111111111111111	100 Year	388 Year			Thickness	Specific York
		_	Amorbid	AFTer	AFTer				
Luranic Fox Hills	86479-19	M	Alle Sireling Wa	ter Espai Searce 179-au	179.67		Under Hill acres	244	16%
	86C9/11/ 86-CW-10	M	40	11.40	6.13	FAWWA Assignment from	Under 41.44 area.		
						SR Water			
Arspelou	86-C9-18	NT	97900	975.00	19147		Under Little sons	246	17%
						Quit Claim			
Larumic Fox Hills	91 CW 28	NY	же	3635	13.44	Qua crass	Regar Water	160	15%
Arapateu	91-09-35	M	8156	41.36	26.45	Quit Claim	Rapper Water	229	18%
Total NT On-Sile					49.00				
710070									
Laransic Fox Hills	29CW 3469	20 CW (NOT	Aldiniumal Deutin	or and Europeanics 27,840	Sterling Water.	Logal Strange	17.54 scro-19t Quary	100	
		~ .					(Note to		
Arapabor	28CW 3899	NYT	4911	43.11	164.97		91.54 acros SR Quarry (Non-1)	300.5	
Bosser	31CW 3889	ENT	4156	45.56	15.19	FAWWA Assignment from MR Water See Bar-X below for Peet Pemping	\$1.54 acros SR Quary	262	
						Mic Water See Bar-X below for Pest Pemping	(New 1)		
Denter	MCWED	NNT	33865	538.95	243.96	Depletions	Starling Ranch 1410 server	0.158229464	
	Aug DICW 1699								
Arapahou	MCNOD	NNT		8.60	8.30				
	Aug DICW New						Sturling Ranch 41.44 reduced to 1.44 senso		
Total from 28 CW 1829		\$1100			292.00				
					James Pro	of Kinne (Protectible) and	Elatori		
Largenic Fox (Bills	87 CW 94	NY	3850	39,50	12.85		135 Aprox Parcel A	196	15%
	BT CW SK	NE					135 Apres Parcel B		
Arapabou	87 CW 96	NY	5880	56.10	19.37		138 Acros Parcel A	259	17%
,	87 CW 76	MT					130 Acres Parcel B		1111
Bonser	BT CW SI	NNT	4939	61.36	8.00	Not sugmented	138 Acres Parcel A	364.7	17%
	er cw m	14.11					138 Ason Pared E		
							THE MARK PARKE		
Downs	87 CW 56 87 CW 56	NNT	3490	34.90	8.00	Not arguested 12 AF withold for exempt wells	135 Acres Parcel A 135 Acres Parcel B	273.0	20%
							1.0 10.00		
Food from Jaymov Ethoronic Parco					31.30	1			
		(Elistrate)	Ground Water St	anno Pintrili					
Larunsic Fox Hills	90-CW-018(81-CW-485)	NT	40,760 12,660	421.00 121.00	141.33 41.47		Water perchased in First Transfe from Bar-X Special Warranty Stammeds Bar-X Hights	180 ages	15%
			12,000	12130	4147			1000 2000	
Arspelou	10-CW-RISHR-CW-RES	NE	34350	143.50	247.59		Special Warranty Mannesh-Bar-X Highin	294	17%
			4800	41.00	16.66		Water perchand in First Tranche from Bar-X	1540 9000	
Denver	ID-CW-EDQB-CW-HD	NY	117700	1175.00	299.67		Special Warranty Shanereck-Bar-X Bights	400	17%
		NT	6100 -62067	401.47	26.3	Not that Anish the Shortler Rase	Water purchased in First Trunche from Bar-X	1960 acres	
Davison	NI-CWHI.	NNT	138800	138800	8.00		Nool Augmenton Flor	499	20%
Antal Net Supply from Bar-X		Shawood	First Ground Wa	136585	590.61				
Daviso	DOWN		40,506	400	1.00		North Assessmentine		
Decree 550	RICARIII	NNT	100,700	1007	1.00		Nools Asymostoles Nools Asymestoles		
Denver NT Ampalog NNT	RI CALIN	NY	2,500	190	62.33 8.00	Special Warranty Book For-X Housevek West			
Aragolies NT	RICATH	NY	47,489	454	158.00		Nools Augmentation		
Anial Shamouck Warr			66,189	EE1.00	236.3				
		OT IN MICH	Cheen! Fire:	Season (New St					
Laranic Fox Hills	1689-000	NY	26,788	263.00	95,67		999.52 www		
Aropolese	149-00	M	29800	398.00	19247	Special Warranty Book	900.12 autro		
						MeCum			
thouser	101-00	NY	51300	513.00	171.00		990.52 acros 1990 AF Retained		
Food Net Supply McCone			117,400	1,374,00	391.33	1	150.00 60000		
	17CW106C			et Hater Legal Sc	ann (See J)			15	
		NT	6,400				Under 225 97 were	190	19%
Lorento Fox Hills Live (Rational Water by processes	174,000,000		-612						
in (Re)		NT							
LEW (Rational Water by processe in othe)  LEW (Ratinguishment)	160,000	NY	47%			1	PPD Augmenting 29 wells		
in (Fe) LFK (Relinquishment)	18C#/385	MT	3,000 3,000 4,000	36.32	19.11	1		200	
in (Re)			3,003 9,766	36.32 91.96	18-11 32-65		PFG Augmenting 26 wells Under 225.97 auton	255	17%
in (Fir) LEE (Relinquishment)	18C#/385	MT						255	17%
in (Fe) LFK (Relinquishment)	18C#/385	MT						256	17%
in (Fe) LFK (Relinquishment)	18C#/385	MT						256	17%
in site) LPE (Falmquishment) Asspales	18CW/1862 17CW/1862	NT NT	13,00 13,00	138.38	42.76			250	17%
in site) 12% (Falmquishment) Acquines	18C#/385	MT	0,766	H156	3248	To the district of the	Under 223 97 men	250	176
in site) LPE (Falmquishment) Asspales	18CW/1862 17CW/1862	NT NT	13,00 13,00	138.38	42.76	A vest beginning to		250	17%
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to sife!  178 (Interpolational)  Acaphos  Acapho	165/05/665 175/05/665 48/05/665	NT NT	11,000	91.96 138.38	42.76	The property	Cooks 225 97 mm	250	176
to site!  179 (Interpretationed)  Associate  Associate NOS  4 and Associ	18CW/1862 17CW/1862	NT NT	13,00 13,00	138.38	22.76 42.76	Transcription (1)	Under 223 97 men	255	17%
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to sife!  178 (Interpolational)  Acaphos  Acapho	165/05/665 175/05/665 48/05/665	NT NT	11,000	91.96 138.38	42.76	The property	Cooks 225 97 mm	250	176
to sife!  178 (Interpolational)  According 150 min No!!  \$ 100 dougle bring E column Line 150 min E column E co	THE WESTERN STATE OF THE STATE	NT NT	11,000	91.96 138.38	22.76 42.76	Transcription (1)	Cooks 225 97 mm	250	17%
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to self-1  178 plantagathered)  Acquises  Acqu	FECROSCO FECROSCO FECROSCO  ACRES  ACRES A	MT MI	11,638	9156 138.28 27.66	42.76 42.76 437 438	Project (violation) in 11 (19) in 10 (19) is beganned (1)	Under 221 07 mon.  Page 22 mon of the all page 22 mon.  Page 22 mon of the all page 22 mon.	250	17%

Note E. The water Basel in the Basished area will be used to serve single Baselly well-awal in not included in the Total Available for the Control System.

PMA1.23 Services 399-Year Water Supply (AF)

PMA1.23 Services 5-spall were Supply For Falcon Nava Water and Wasewater Archeolog
EXWA On-Site Supplies

EASWA Off-Site Supplies

EASWA Betroot Water Supplies



#### 3.2 ADEQUACY OF WATER RIGHTS CURRENT SUPPLY

The current water rights inventory by area is as follows:

1	Sterling original o	399.80 AF <sub>300 year</sub>	
1	02 CW 3059	283.16 AF <sub>300 year</sub>	
1	Retreat at Timber	42.76 AF <sub>300 year</sub>	
1	Jaynes/Rhetoric	36.11AF <sub>300 year</sub>	
1	McCune	BD-1689, BD-1690, BD-1691	391.33 acre-feet 300 year
1	Bar-X Ranch	85CW-445 and 93 CW-018	592.78 acre-feet 300 year
1	Shamrock West	85 CW 131	220.10 acre-feet 300 year

FSAWWA-owned and currently available on-site NT and adjudicated not non-tributary (NNT) water totals are 1962.23 AF<sub>300 year</sub>, which would be adequate supply to meet the needs of roughly 5,500SFE.

As of this report September 27, 2024, the total water commitment within FAWWA requires **1105.33**  $AF_{300\, year}$ . See Appendix F – FAWWA detailed Water Supply vs Current Water Commitments.

This leaves a net excess of currently available water of 856.9 AF<sub>300 year</sub> and therefore there is more than sufficient water supply to meet the needs of Sterling Ranch East Filing 6 Preliminary Plan 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 five 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 2024, the system had approximately about 600 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 FAWWA service area projection. This would require no additional water.
- 7,310 SFEs within its expanded service area, which includes all service area components.. This would be substantially greater than the actual Sterling Ranch. The annual acre-foot requirement might be 640 annual AF, but supply would include water from The Ranch which has not yet been added to inventory.

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



<u>Long-Term Planning:</u> Future water supply has already been contracted for and plans for implementation are underway. 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.

- 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, FAWWA 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 FAWWA 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 FAWWA.
- 2. 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 FAWWA 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 FAWWA area. Two on-site wells are active and three more have been completed, awaiting equipping. Existing well permits are included in **Appendix D**.

FAWWA has begun the process of filing to drill the first set of wells on the McCune site which will possibly be needed in 2027.

Off-site water to the north of the FAWWA 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 FAWWA. 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 FAWWA 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

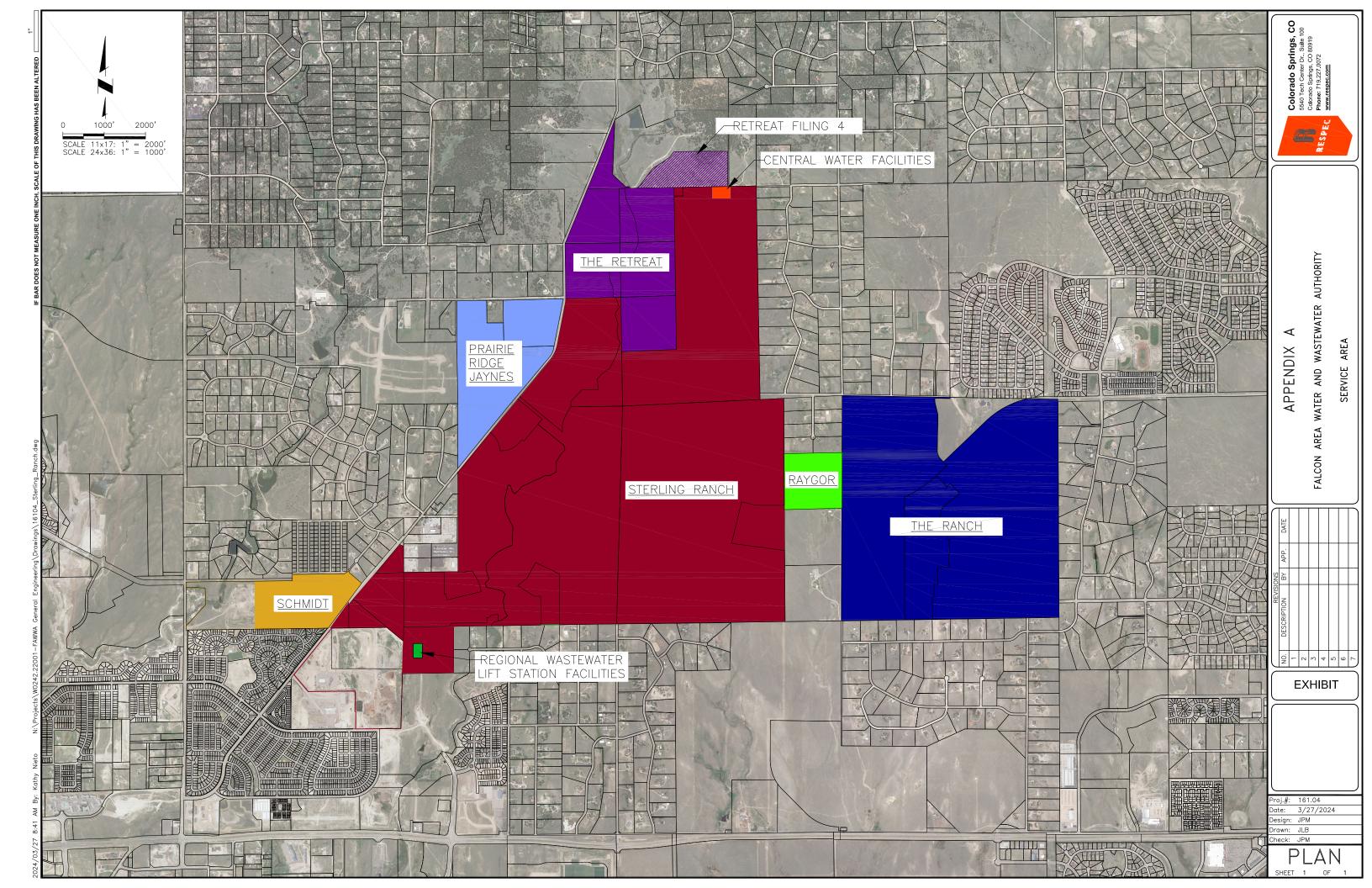
Ground elevations within the development service area range from approximately 6,970 feet to 7,320 feet. Adequate service pressures are generally considered 60 psi for residential service. The tank site is on the Sterling property at a base elevation of approximately 7,310 feet, which would be capable 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.

Development construction has progressed such that the pressure system is likely to be needed sometime in 2023, FAWWA is currently constructing the pressure pump station so that it will be ready when needed next year.

#### **APPENDIX A**

### **WATER SERVICE AREAS**





#### **APPENDIX B**

## STERLING RANCH EAST FILING 6 PRELIMINARY



A PORTION OF THE SOUTHEAST QUARTER OF SECTION 27 AND THE NORTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO

#### **GENERAL NOTES:**

- 1. ALL SIDEWALKS SHOWN ON PRELIMINARY PLAN ARE TO BE 5' CONCRETE UNLESS OTHERWISE SPECIFIED.
- 2. ALL TRAILS TO BE NON-MOTORIZED TRAILS.
- 3. TRAILS LABELED AS "COUNTY REGIONAL TRAIL" WILL BE MAINTAINED BY EL PASO COUNTY.
- 4. LANDSCAPING IN PUBLIC-RIGHTS-OF-WAY WILL BE MAINTAINED BY THE STERLING RANCH METROPOLITAN DISTRICT.
- 5. DEVELOPER SHALL ANALYZE THE NEED TO PROVIDE ALL NECESSARY OFFSITE ROAD IMPROVEMENTS, WHICH MAY INCLUDE IMPROVEMENTS IN THE CITY OF COLORADO SPRINGS, TO PROVIDE AN APPROPRIATE LEVEL OF SERVICE TO THIS DEVELOPMENT. IF OFFSITE ROAD IMPROVEMENTS ARE NECESSARY, THEY WILL BE SPECIFICALLY OUTLINED PER A SUBDIVISION IMPROVEMENTS AGREEMENT OR DEVELOPMENT AGREEMENT BETWEEN DEVELOPER AND
- 6. ALL STREETS SHALL BE NAMED AND CONSTRUCTED TO EL PASO COUNTY STANDARDS AND ANY APPROVED DEVIATION. UPON ACCEPTANCE EL PASO COUNTY, PUBLIC STREETS SHALL BE MAINTAINED BY THE COUNTY.
- NOTWITHSTANDING ANYTHING DEPICTED IN THIS PLAN IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE (LDC), THE ECM, THE DRAINAGE CRITERIA MANUAL (DCM), AND THE DCM VOLUME 2. ANY DEVIATIONS FROM THESE STANDARDS MUST BE SPECIFICALLY REQUESTED AND APPROVED IN WRITING TO BE ACCEPTABLE. THE APPROVAL OF THIS PRELIMINARY PLAN DOES NOT IMPLICITLY ALLOW ANY DEVIATIONS OR WAIVERS THAT HAVE NOT BEEN OTHERWISE APPROVED THROUGH THE DEVIATION
- 8. THE SUBDIVIDER(S) AGREE ON BEHALF OF HIM/HERSELF AND ANY DEVELOPER OR BUILDER SUCCESSORS AND ASSIGNEES THAT SUBDIVIDER AND/OR SAID SUCCESSORS AND ASSIGNS SHALL BE REQUIRED TO PAY TRAFFIC IMPACT FEES IN ACCORDANCE WITH THE EL PASO COUNTY ROAD IMPACT FEE PROGRAM RESOLUTIONS (RESOLUTION NO.19-471), OR ANY AMENDMENTS THERETO, AT OR PRIOR TO THE TIME OF BUILDING PERMIT SUBMITTALS. THE FEE OBLIGATION, IF NOT PAID AT FINAL PLAT RECORDING, SHALL BE DOCUMENTED ON ALL SALES DOCUMENTS AND ON PLAT NOTES TO ENSURE THAT A TITLE SEARCH WOULD FIND THE FEE OBLIGATION BEFORE SALE OF THE PROPERTY.
- 9. THE FOLLOWING UTILITY PROVIDERS WILL SERVE THE STERLING RANCH EAST FILING NO. 6 PRELIMINARY PLAN AREA INSTALLED BY THE DEVELOPER: WATER: FAWWA WASTEWATER: FAWWA
- GAS: COLORADO SPRINGS UTILITIES GAS ELECTRIC: MOUNTAIN VIEW ELECTRIC ASSOCIATION, INC.
- 10. THE FOLLOWING REPORTS HAVE BEEN SUBMITTED IN ASSOCIATION WITH THE PRELIMINARY PLAN FOR THIS SUBDIVISION AND ARE ON FILE AT THE COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT: TRANSPORTATION IMPACT STUDY; DRAINAGE REPORT; WATER RESOURCES REPORT; WASTEWATER
- 11. DEVELOPER SHALL COMPLY WITH FEDERAL AND STATE LAWS, REGULATION, ORDINANCES, REVIEW AND PERMIT REQUIREMENTS, AND OTHER AGENCY REQUIREMENTS, IF ANY, OF APPLICABLE AGENCIES INCLUDING, BUT NOT LIMITED TO, THE COLORADO PARKS AND WILDLIFE, COLORADO DEPARTMENT OF TRANSPORTATION, U.S. ARMY CORPS OF ENGINEERS AND THE U.S. FISH AND WILDLIFE SERVICE REGARDING THE ENDANGERED SPECIES ACT, PARTICULARLY AS IT RELATES TO THE LISTED SPECIES (E.G., PREBLE'S MEADOW JUMPING MOUSE).
- 12. THE DEVELOPER WILL BUILD A NOISE WALL ALONG LOTS ADJACENT TO STERLING RANCH ROAD. SAID NOISE WALL IS TO BE LOCATED ON REAR LOT LINE OF THE LOTS AS INDICATED ON THE PRELIMINARY PLAN AND MAINTAINED BY THE METRO DISTRICT. A DETAIL OF THE PROPOSED CONCRETE WALL IS ON ATTACHED LANDSCAPE PLAN.
- 13. THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.
- 14. IN AREAS OF SHALLOW GROUNDWATER: DUE TO SHALLOW GROUNDWATER IN THE AREA, ALL FOUNDATIONS SHALL INCORPORATE AN UNDERGROUND DRAINAGE SYSTEM. UNDER DRAINS TO BE MAINTAINED BY THE DISTRICT. (SEE SHEET 21 FOR GEOLOGIC CONSTRAINTS EXHIBIT)
- 15. UNLESS OTHERWISE INDICATED, ALL LOTS HAVE THE FOLLOWING EASEMENTS, 7' REAR PUBLIC UTILITY AND DRAINAGE EASEMENT, 5' SIDE PUBLIC EASEMENTS, 5' FRONT PUBLIC UTILITY AND PUBLIC IMPROVEMENT EASEMENT, AND ADDITIONAL EXCLUSIVE 10' FRONT PUBLIC UTILITY EASEMENT. THE SOLE RESPONSIBILITY FOR MAINTENANCE OF THE THESE EASEMENTS IS HEREBY VESTED WITH THE INDIVIDUAL PROPERTY OWNERS.
- 16. THERE SHALL BE NO DIRECT LOT ACCESS TO STERLING RANCH ROAD FOR ANY RESIDENTIAL LOTS.
- 17. ANY LANDSCAPING IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE A LICENSE AGREEMENT WITH THE DISTRICT AT TIME OF FINAL PLAT.

THE OVERALL SITE HAS BEEN FOUND TO BE IMPACTED BY GEOLOGIC HAZARDS. MITIGATION MEASURES AND A MAP OF THE HAZARD AREA CAN BE FOUND IN THE REPORT "SOILS AND GEOLOGY STUDY FOR STERLING RANCH EAST FILING NO. 6, EL PASO COUNTY, COLORADO" BY ENTECH ENGINEERING, INC. DATED JUNE 27, 2023 IN FILE SP-23-235 AVAILABLE AT THE EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT.

POTENTIALLY SEASONALLY HIGH GROUNDWATER FOUND ON THE FOLLOWING LOTS: 130-132, 135-137 AND 152-155 (SEE SHEET 21) MITIGATION FOR THESE LOTS INCLUDE OVERLOT GRADING AND INCORPORATION OF UNDERGROUND DRAINAGE SYSTEMS AROUND FOUNDATIONS WITH DIRECT CONNECTION TO UNDERDRAIN SYSTEM WITHIN ADJACENT STREET MAINTAINED BY METRO DISTRICT.

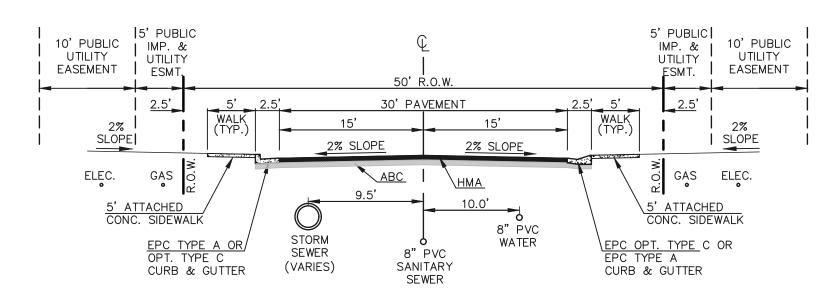
#### BASIS OF BEARINGS:

THE SOUTH LINE OF 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 BY A 3-1/4 INCH ALUMINUM CAP STAMPED "ESI PLS 10376 2006" FOUND FLUSH WITH GRADE AND MONUMENTED ON 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 INCH ALUMINUM CAP STAMPED "ESI PLS 10376 2006 W.C. 30" FOUND 0.1 FEET ABOVE GRADE; DETERMINED FROM GPS OBSERVATIONS TO BEAR NORTH 89°08'28" EAST A DISTANCE OF 1356.68 FEET.

#### TRACT TABLE

SEE SHEET 2 FOR LEGAL DESCRIPTION

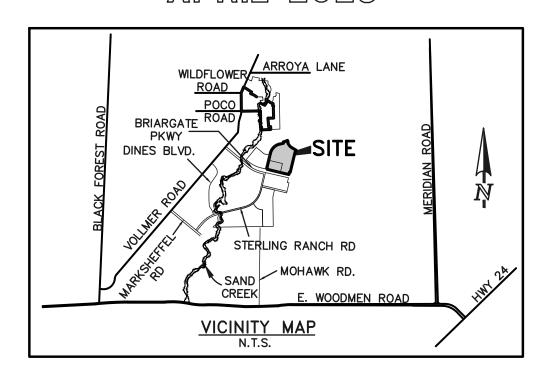
TRACT	AREA (SF)	AREA (AC.)	USE	OWNERSHIP/MAINTENANCE
Α	1,650	0.04	PARK, LANDSCAPE, UTILITIES	STERLING RANCH METRO DISTRICT
В	307,531	7.06	DETENTION, TRAILS, UTILITIES, BUFFER	STERLING RANCH METRO DISTRICT
С	27,434	0.63	OPEN SPACE, LANDSCAPE, UTILITIES	STERLING RANCH METRO DISTRICT
D	53,420	1.23	OPEN SPACE, LANDSCAPE, UTILITIES	STERLING RANCH METRO DISTRICT
E	2,130	0.05	OPEN SPACE, LANDSCAPE, UTILITIES	STERLING RANCH METRO DISTRICT
F	35,290	0.81	PARK, LANDSCAPE, UTILITIES	STERLING RANCH METRO DISTRICT
G	12,526	0.29	OPEN SPACE, LANDSCAPE, UTILITIES	STERLING RANCH METRO DISTRICT
		Т	OTAL TRACT AREA = 9.81 ACRES	

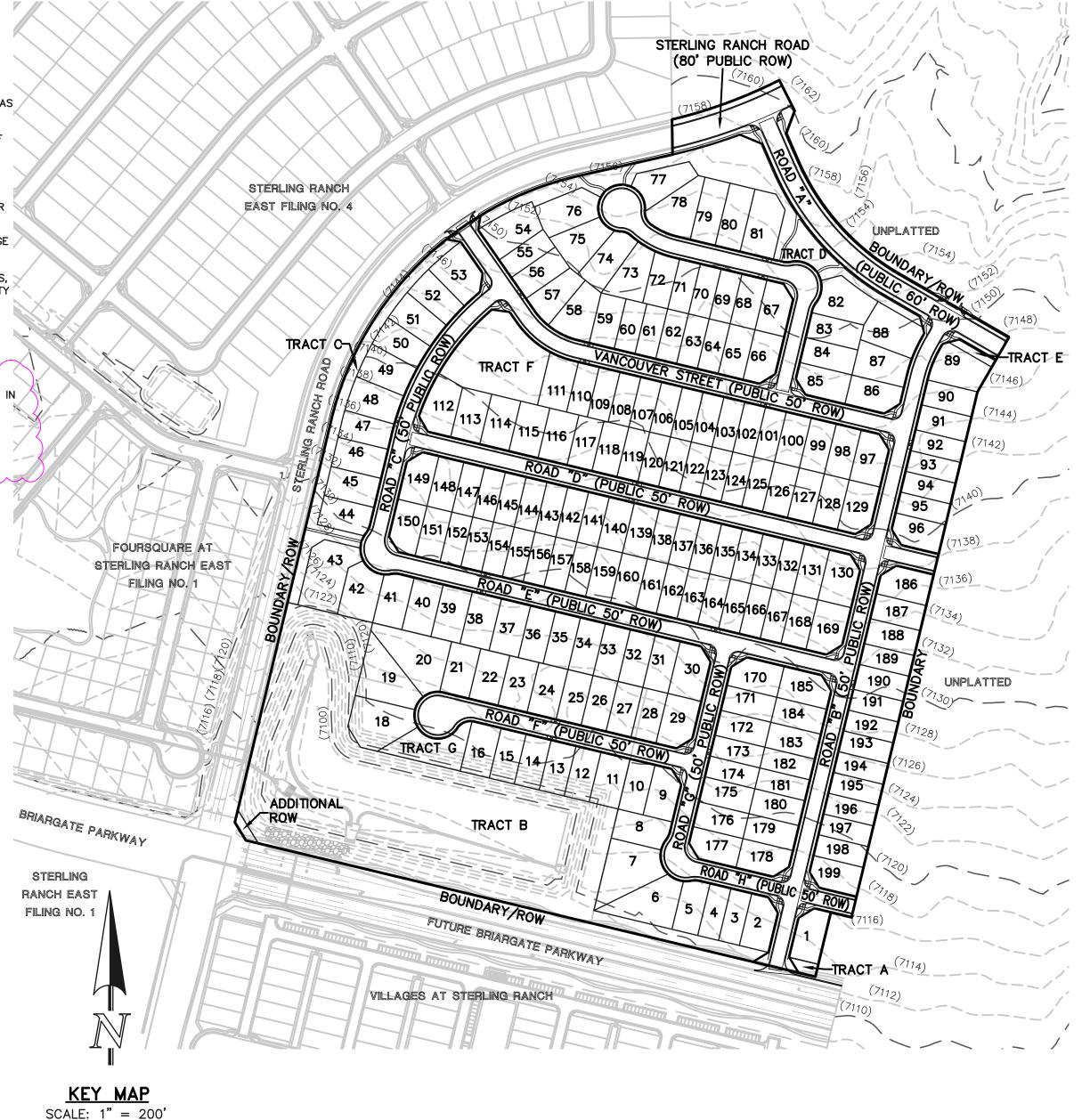


50' R.O.W. TYPICAL STREET/UTILITY SECTION - URBAN LOCAL ROADWAY

### PRELIMINARY PLAN

APRIL 2025





#### SITE DATA

TAX ID NUMBERS: 52000-00-573 TOTAL AREA: 56.134 ACRES DEVELOPMENT SCHEDULE SPRING 2025 SKETCH PLAN: SKP 22-004 CURRENT ZONING: RR-5 & PUD PROPOSED ZONING: RS-5000

AGRICULTURE GRAZING/VACANT CURRENT USE: PROPOSED USE: SINGLE FAMILY RESIDENTIAL 3.5 DU/AC (198 LOTS/56.13 AC) PROPOSED GROSS DENSITY: PROPOSED NET DENSITY: 5.7 DU/AC (198 LOTS/34.51 AC)

LANDSCAPE SETBACKS: STERLING RANCH ROAD: 10 FT

#### ZONE DIMENSIONAL STANDARDS

ZONE	MIN. LOT SIZE	MAX. BUILDING HEIGHT	MAX. LOT COVERAGE	MIN. LOT WIDTH AT FRONT SETBACK LINE	FRONT BUILDING SETBACK	SIDE BUILDING SETBACK	REAR BUILDING SETBACK
RS-5000	6,000 SF	30'	40%/45%	50'	25'	5'	25'

#### LAND USE DATA TABLE

LAND USE	ACRES	% OF LAND
SINGLE FAMILY	34.51	61.5%
ROAD ROW	11.52	20.5%
NEIGHBORHOOD PARK/OPEN SPACE/DRAINAGE	3.04	5.4%
DRAINAGE/DETENTION	7.06	12.6%
TOTAL	56.13	100%

#### PROJECT TEAM

OWNER:

CLASSIC SRJ LAND, LLC 2138 FLYING HORSE CLUB DR. COLORADO SPRINGS, CO 80921 (719) 592-9333 MR. LOREN MORELAND

APPLICANT/CIVIL CONSULTANT:

CLASSIC CONSULTING 619 N. CASCADE AVE. SUITE 200 COLORADO SPRINGS, CO 80903 (719) 785-2802

MR. MARC A. WHORTON, P.E.

LANDSCAPE CONSULTANT:

619 N. CASCADE AVE. SUITE 200 COLORADO SPRINGS, CO 80903 (719) 471-0073 MS. JENNIFER SHAGIN, ASLA

LANDSCAPE CONSULTANT:

SUNFLOWER LANDSCAPED 7425 ADVENTURE WAY COLORADO SPRINGS, CO 80923 (719) 661-5049

#### **SHEET INDEX:**

LEGAL BOUNDARY & ADJACENT OWNERS EXHIBIT PRELIMINARY PLAN PRELIMINARY PLAN PRELIMINARY PLAN PRELIMINARY GRADING & UTILITY PLAN PRELIMINARY GRADING & UTILITY PLAN PRELIMINARY GRADING & UTILITY PLAN PRELIMINARY LANDSCAPE PLANS & DETAILS

GEOLOGIC CONSTRAINTS EXHIBIT

SHEET 3 OF 21 SHEET 4 OF 21 SHEET 5 OF 21 SHEET 6 OF 21 SHEET 7 OF 21 SHEET 8 OF 21 SHEETS 9-20 OF 21 SHEET 21 OF 21

SHEET 1 OF 21

SHEET 2 OF 21

PCD NO. SP-\_\_\_



Colorado Springs, Colorado 80903

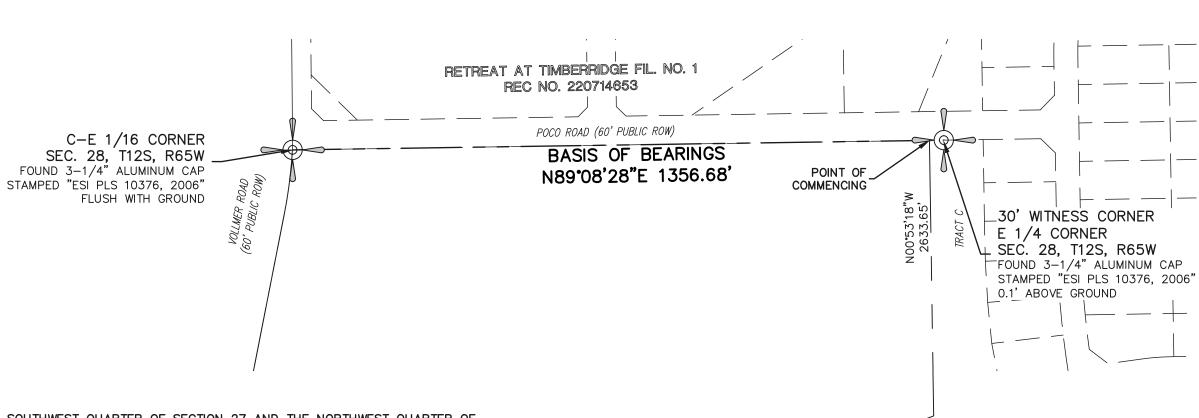
STERLING RAPELIMINARY TITLE SHEET		EAST FILING N	NO. 6		CLASSIC CONSULTING
DESIGNED BY	KES	SCALE	DATE	08	/29/2024

KES (H) 1"= 200' | SHEET 1 OF

|(V) 1" = N/A | JOB NO.

A PORTION OF THE SOUTHEAST QUARTER OF SECTION 27 AND THE NORTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO

### PRELIMINARY PLAN



#### LEGAL DESCRIPTION:

A PARCEL OF LAND LOCATED IN THE SOUTHWEST QUARTER OF SECTION 27 AND THE NORTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO MORE PARTICULARLY DESCRIBED AS FOLLOWS WITH BEARINGS REFERENCED TO THE SOUTH LINE OF 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 BY A 3-1/4 INCH ALUMINUM CAP STAMPED "ESI PLS 10376 2006" FOUND FLUSH WITH GRADE AND MONUMENTED ON 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 INCH ALUMINUM CAP STAMPED "ESI PLS 10376 2006 W.C. 30" FOUND 0.1 FEET ABOVE GRADE; DETERMINED FROM GPS OBSERVATIONS TO BEAR NORTH 89'08'28" EAST A DISTANCE OF 1356.68 FEET.

COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION 28:

THENCE SOUTH 00°53'18" EAST A DISTANCE OF 2,633.65 FEET TO THE SOUTHEAST CORNER OF SAID SECTION 28:

THENCE SOUTH 01°30'46" WEST A DISTANCE OF 1,543.70 FEET TO A NON-TANGENT CURVE, CURVE ALSO BEING THE NORTHERLY RIGHT-OF-WAY OF BRIARGATE PARKWAY AS PLATTED IN HOMESTEAD NORTH AT STERLING RANCH FILING NO. 1 RECORDED MAY 19, 2023 UNDER RECEPTION NUMBER 223715150 RECORDS OF EL PASO COUNTY CLERK AND RECORDER, HAVING A RADIUS OF 1,935.00 FEET, WHOSE CENTER BEARS NORTH 13°36'00"

THENCE ON SAID NORTHERLY RIGHT-OF-WAY LINE OF BRIARGATE PARKWAY THE FOLLOWING TWO (2) COURSES:

1. THENCE EASTERLY, ON SAID CURVE, THROUGH A CENTRAL ANGLE OF 00°07'31", AN ARC DISTANCE OF 4.23 FEET;

2. THENCE SOUTH 76°31'31" EAST A DISTANCE OF 347.57 FEET;

THENCE SOUTH 76°31'31" EAST, CONTINUING ON THE EXTENSION OF SAID NORTHERLY RIGHT-OF-WAY LINE OF BRIARGATE PARKWAY, A DISTANCE OF 34.99 FEET TO THE POINT OF BEGINNING;

THENCE NORTH 31°31'31" WEST A DISTANCE OF 49.50 FEET;

THENCE NORTH 13°28'29" EAST A DISTANCE OF 967.70 FEET TO A TANGENT CURVE, HAVING A RADIUS OF 770.00 FEET, WHOSE CENTER BEARS EASTERLY;

THENCE NORTHEASTERLY, ON SAID CURVE, THROUGH A CENTRAL ANGLE OF 63°41'16", AN ARC DISTANCE OF 855.90 FEET;

THENCE NORTH 77°09'45" EAST A DISTANCE OF 226.32 FEET;

THENCE NORTH 00°54'30" WEST A DISTANCE OF 81.85 FEET TO A NON-TANGENT CURVE, HAVING A RADIUS OF 1,160.00 FEET, WHOSE CENTER BEARS NORTH 13°31'46" WEST;

THENCE EASTERLY, ON SAID CURVE, THROUGH A CENTRAL ANGLE OF 13°13'52", AN ARC DISTANCE OF 267.87 FEET;

THENCE SOUTH 26°45'38" EAST, ON A LINE NON-TANGENT TO SAID CURVE, A DISTANCE OF 80.00 FEET;

THENCE SOUTH 20°20'04" WEST A DISTANCE OF 57.73 FEET;

THENCE SOUTH 23°31'28" EAST A DISTANCE OF 68.18 FEET TO A TANGENT CURVE, HAVING A RADIUS OF 570.00 FEET, WHOSE CENTER BEARS NORTHEASTERLY;

THENCE SOUTHEASTERLY, ON SAID CURVE, THROUGH A CENTRAL ANGLE OF 36°28'32", AN ARC DISTANCE OF 362.87 FEET;

THENCE SOUTH 60°00'00" EAST A DISTANCE OF 295.92 FEET;

THENCE SOUTH 30°00'00" WEST A DISTANCE OF 146.68 FEET;

THENCE SOUTH 13°28'29" WEST A DISTANCE OF 1,264.46 FEET;

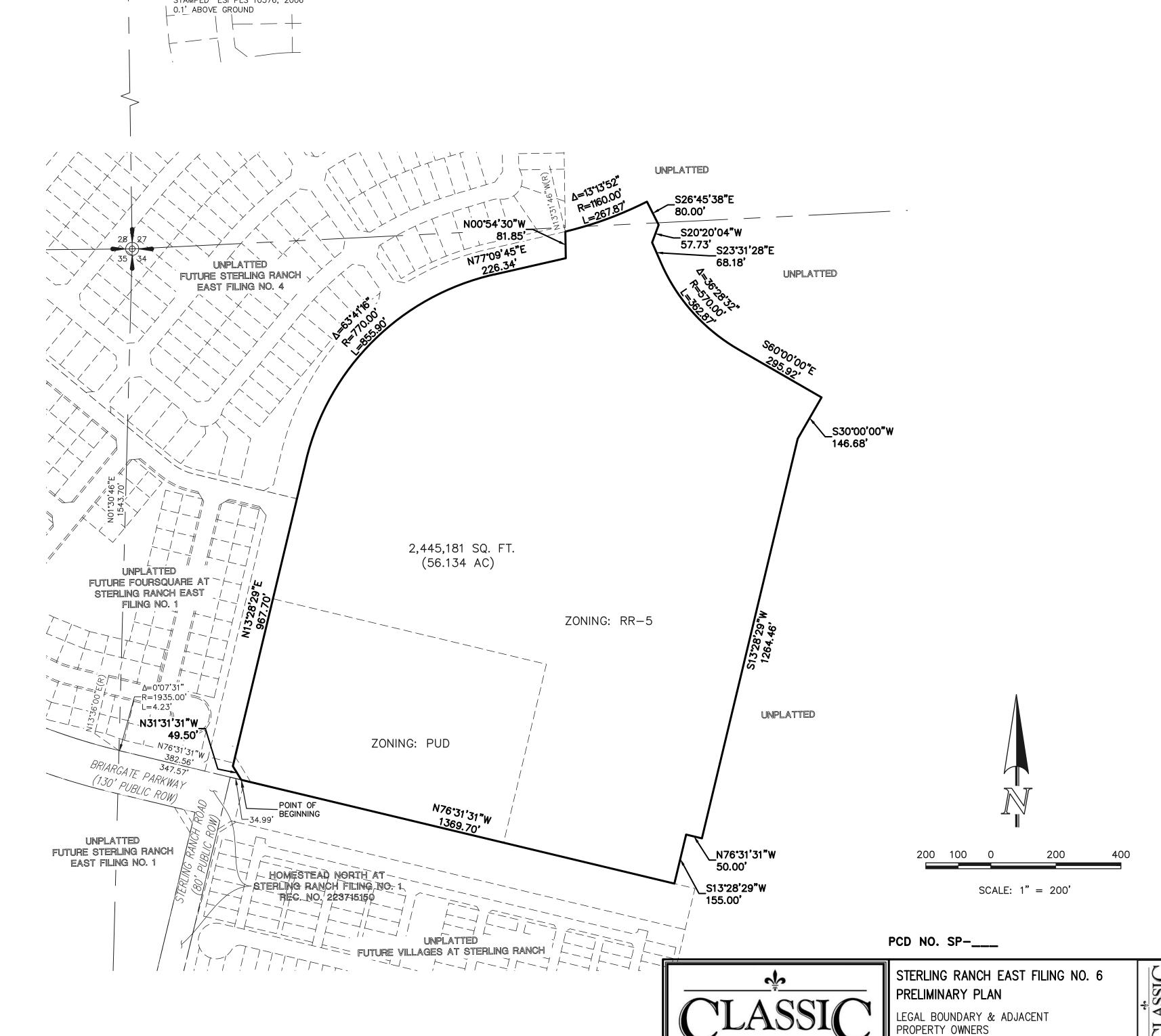
THENCE NORTH 76°31'31" WEST A DISTANCE OF 50.00 FEET;
THENCE SOUTH 13°28'29" WEST A DISTANCE OF 155.00 FEET;

THENCE NORTH 76°31'31" WEST A DISTANCE OF 1,369.70 FEET TO THE POINT OF BEGINNING.

CONTAINING A CALCULATED AREA OF 56.134 ACRES.

#### ADJACENT OWNER

ADJACENT OWNER NAME	MAILING ADDRESS	CITY STATE ZIP		
CLASSIC SRJ LAND LLC	20 BOULDER CRESCENT ST STE. 100	COLORADO SPRINGS, CO 80903		



CONSULTING

619 N. Cascade Avenue, Suite 200

Colorado Springs, Colorado 80903

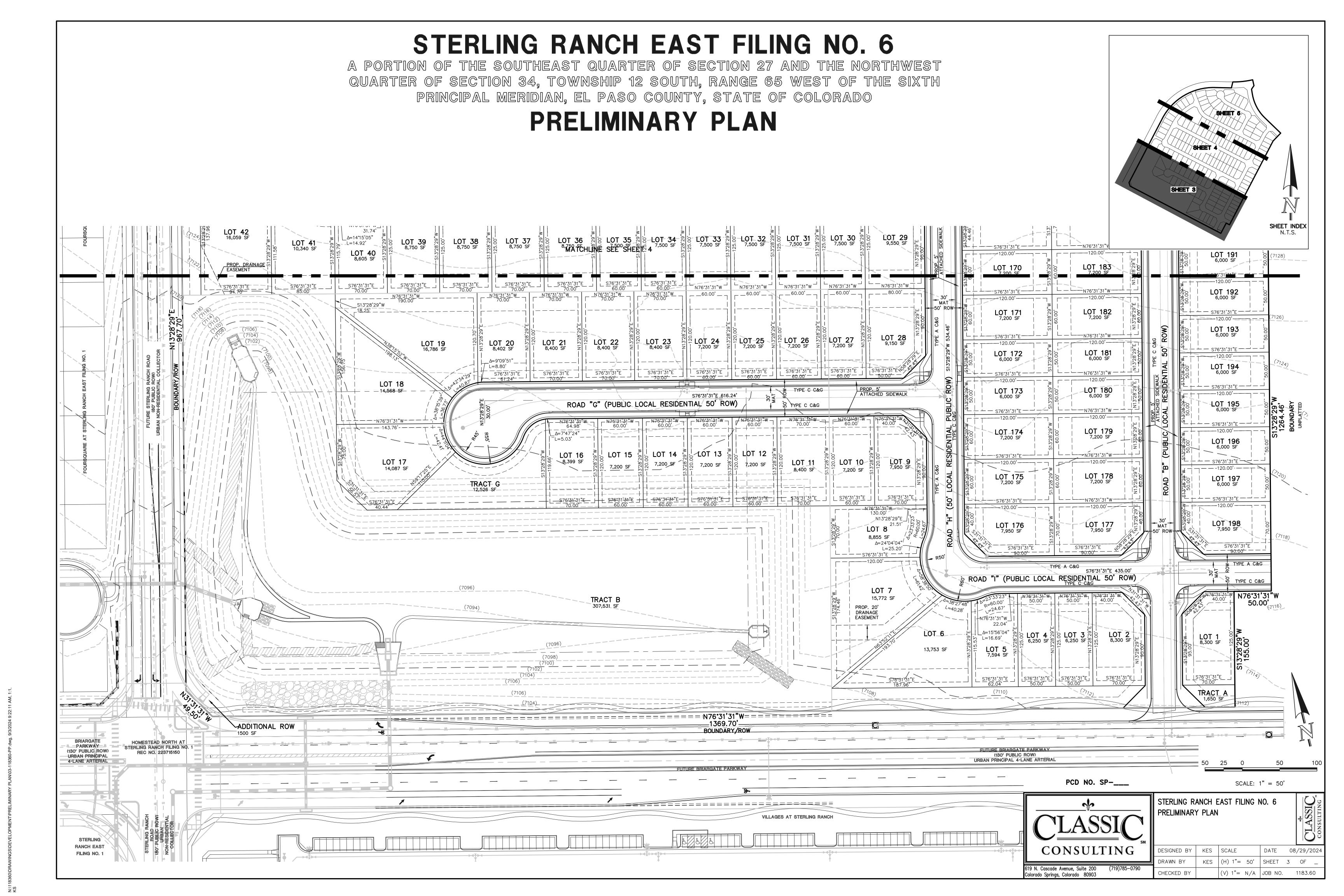
DESIGNED BY | KES | SCALE

CHECKED BY

DATE 08/29/2024

KES (H) 1"= 200' | SHEET 2 OF

(V) 1"= N/A JOB NO. 1183.60



QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO

MATCHLINE SEE SHEET 5

ROAD "E" (PUBLIC LOCAL RESIDENTIAL 50' ROW)

ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)

TRACT F 35,290 SF

**LOT 47** 9,142 SF

S76°31'31"E

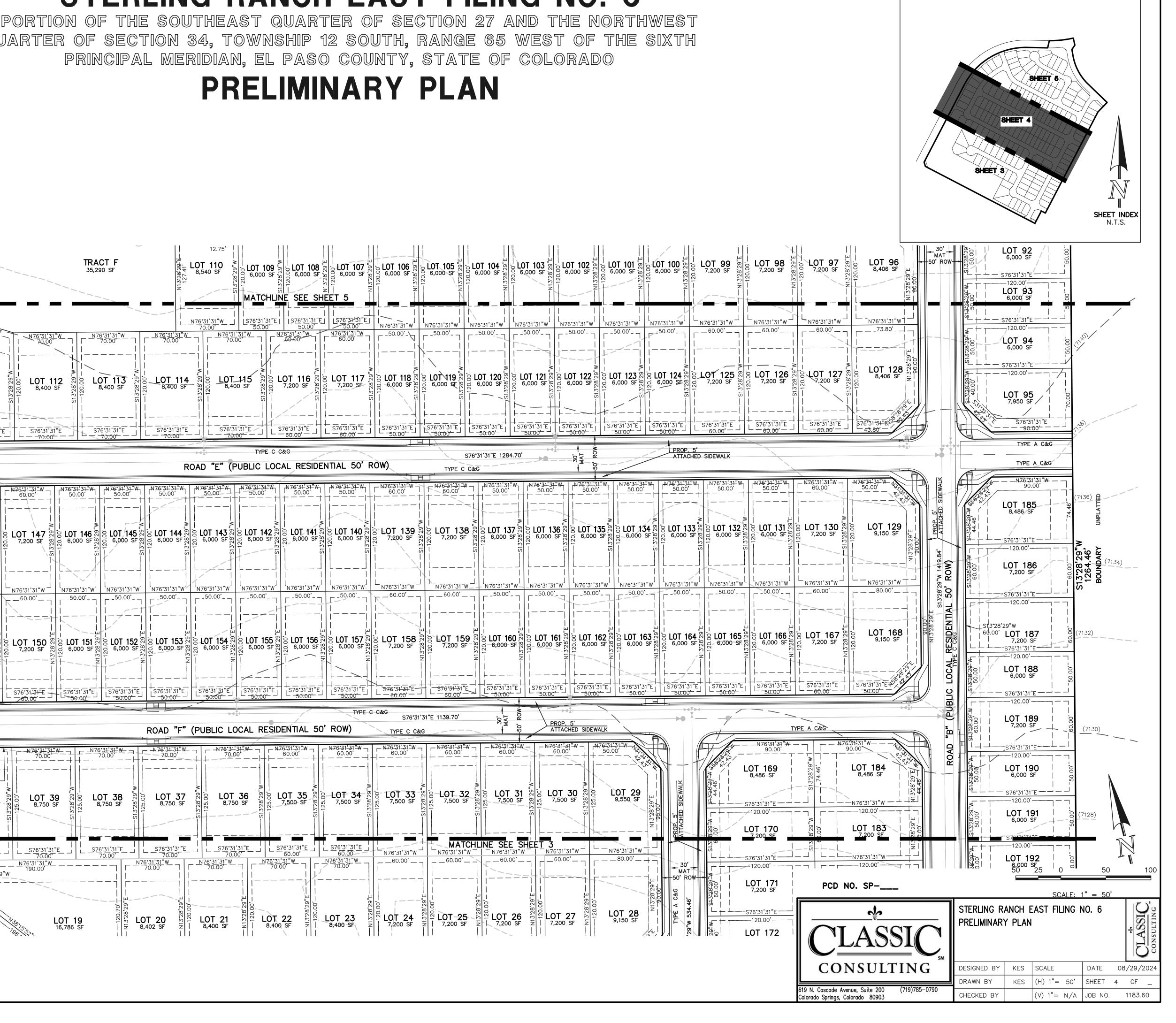
— —N<del>76°31</del>′3<u>1</u>"₩ 86.22′ \

Δ=28°31'41"\_ L=29.87'

\_Δ=14°15'05" \_L=14.92'

LOT 40 8,605 SF

### PRELIMINARY PLAN

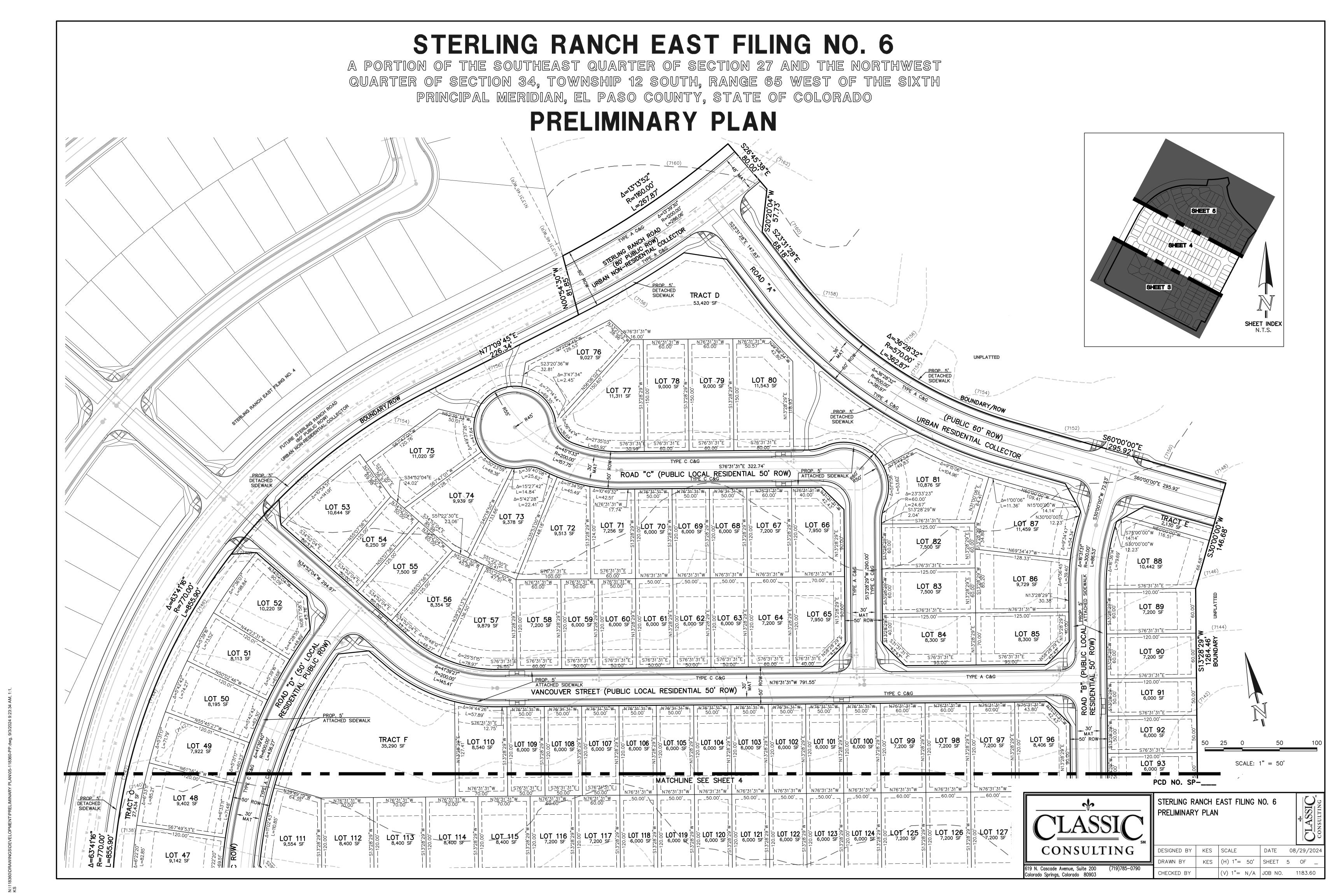


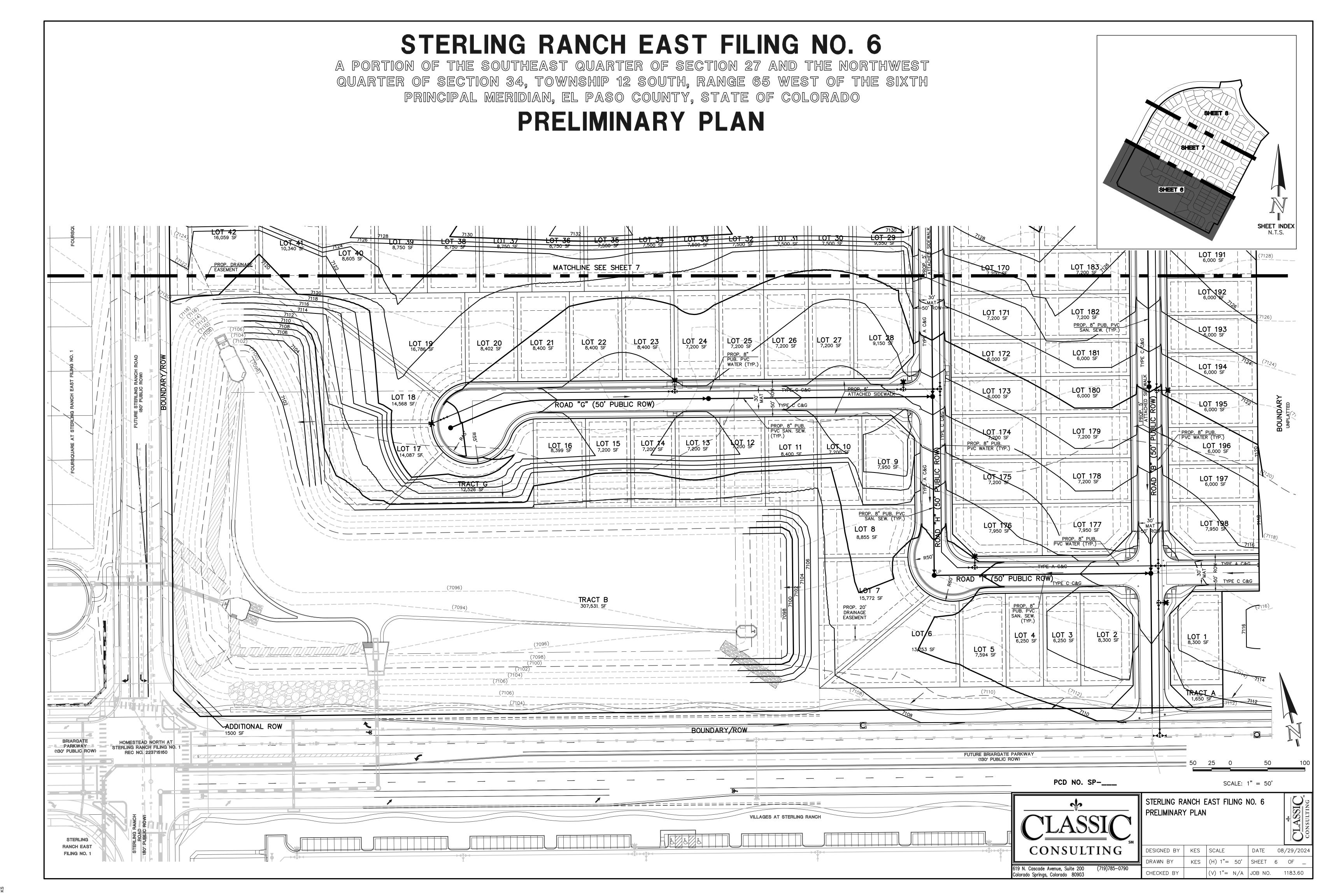
PROP. 5'
ATTACHED SIDEWALK

S76°31'31"E 1284.70'

PROP. 5'
ATTACHED SIDEWALK

LOT 27 7,200 SF

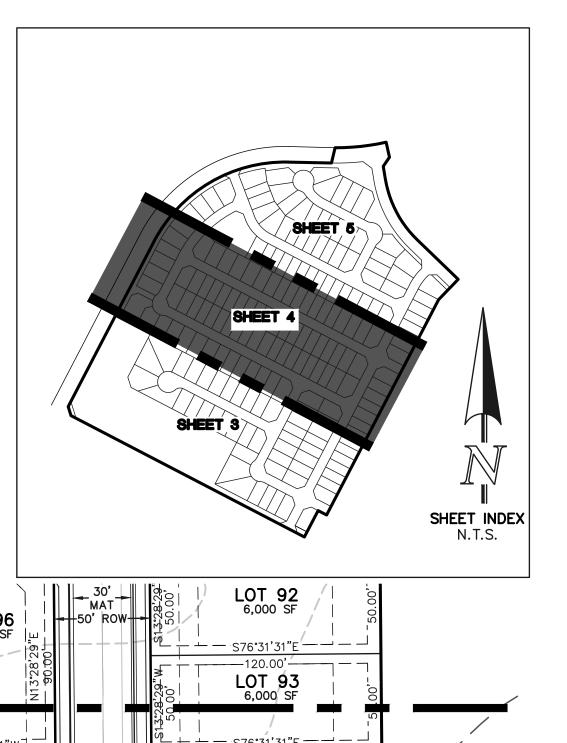




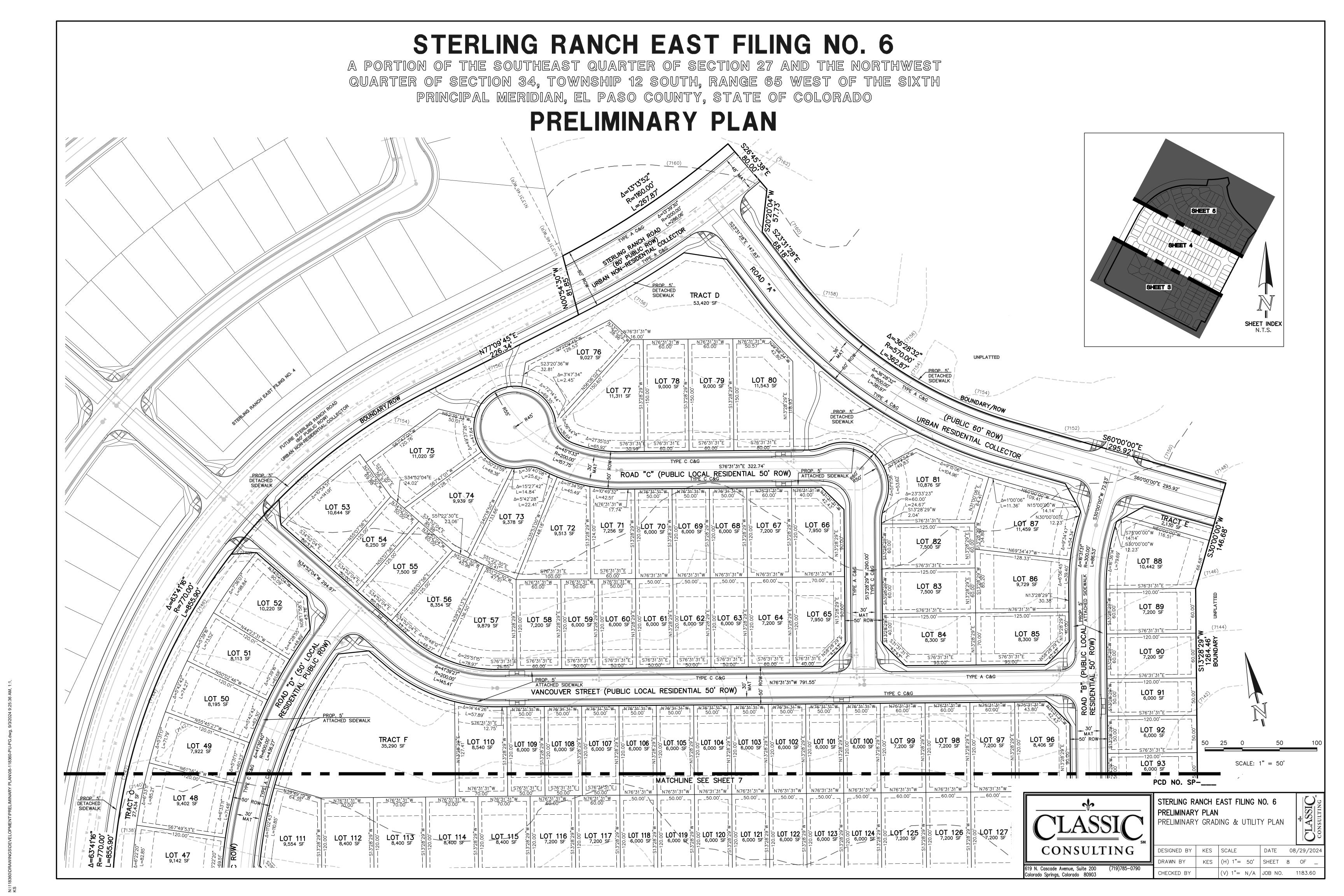
N:\118360\DRAWINGS\DEVELOPMENT\PRELIMINARY PLAN\06-118360-PU-PG.dwg, 9/3/2024 9

A PORTION OF THE SOUTHEAST QUARTER OF SECTION 27 AND THE NORTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO

### PRELIMINARY PLAN



	SHEET INDEX N.T.S.
TRACT F 35,290 SF  LOT 49 7,922 SF 7,92	LOT 92 6,000 SF 50' ROW 50'00 1
N76'31'31"W   S76'31'31"W   S76'31'31"W   N76'31'31"W	28   20
## DOT 111   So LOT 112   So LOT 113   So LOT 114   So LOT 115   So LOT 116   So LOT 117   So LOT 118   So LO	TYPE A C&G  TYPE A C&G
Size 29 w   Size	9.000'  LOT 185  8,486 SF  8,486 SF  120.00'  12
CVO 2 100 100 100 100 100 100 100 100 100 1	8
N1328'39" LOT 150 \$\frac{1}{3}\$ LOT 151 \$\frac{1}{3}\$ LOT 152 \$\frac{1}{3}\$ LOT 155 \$\fr	7,200 SF  7,200 SF  120.00'  120.00'  100 SF
ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  TYPE C C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  ATTACHASICAL TO THE A C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  ATTACHAS STATEMAN TO THE A C&C  ROAD "F" (PUBLIC LOCAL RESIDENTIAL 50' ROW)  ROAD "F" (PUBLIC LOCAL RESIDENT	TOT 190  S76°31'31"E
Statistic   Stat	6,000 SF
COLUMN TO THE PCD NO. SP TO NO. SP T	SCALE: 1" = 50'  STERLING RANCH EAST FILING NO. 6  PRELIMINARY PLAN  PRELIMINARY GRADING & UTILITY PLAN
CONSULT 619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903	DESIGNED BY   KES   SCALE   DATE   08/29/2024



#### **APPENDIX C**

### **WATER RIGHTS DECREES**



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

<b>Decrees/Determinations</b>	<u>Deeds</u>
07 CW 56	QCD Jaynes /CSRJL to FAWWA
08 CW 113	FAWWA Assignment
86 CW 18	FAWWA Assignment
86 CW 19	FAWWA Assignment
17 CW 3002	
18 CW 3002	
20 CW 3059	FAWWA Assignment
91 CW 35	Classic SRJ Deed
02.014.040	Deed for first traunche Bar-X
93 CW 018	Special Warranty Deed Bar-X Shamrock West
85 CW 445	Special Warranty Deed Bar-X Shamrock West
85 CW 131	Special Warranty Deed Bar-X Shamrock West
1689 BD	Special Warranty Deed McCune
1690 BD	Special Warranty Deed McCune
1691 BD	Special Warranty Deed McCune
23 CW 3009	In FAWWA Name
24 CW 3007 (Pending)	In FAWWA Name

#### STATE OF COLORADO

OFFICE OF THE STATE ENGINEER

Division of Water Resources Department of Natural Resources

1313 Sherman Street, Room 818 Denver, Colorado 80203 Phone (303) 866-3581 FAX (303) 866-3589

203 Judicial Bldg.

http://www.water.state.co.us

September 24, 2007

EFILED Document – District Contract 2007CW56

CO Pueblo County District Court Dis Filing Date: Sep 24 2007 3:39PM MDT

Filing ID: 16424421

Review Clerk: Mardell Didomenikoniter, Jr.

Governor

Harris D. Sherman Executive Director

(Vacant) State Engineer

320 W. 10<sup>th</sup> Street Pueblo, CO 81003

Clerk, Division 2 Water Court

RE: Case No. 07CW56, Aimee Jaynes Living Trust and John Jaynes

Enclosed are the Determination of Facts Reports of the State Engineer concerning the referenced water court application for determination of rights to ground water. These reports are submitted pursuant to CRS 37-92-302(2)(a).

Sincerely

Don West

Water Resources Engineer

cc: Division 2

Applicant's Attorney

#### OFFICE OF THE STATE ENGINEER DETERMINATION OF FACTS

IN THE MATTER OF AN APPLICATION FOR UNDERGROUND WATER RIGHTS IN WATER DIVISION NO. 2, EL PASO COUNTY, COLORADO

CASE NO.: 07CW56

APPLICANT: AIMEE JAYNES LIVING TRUST AND JOHN JAYNES

AQUIFER: DAWSON

In compliance with C.R.S. 37-92-302(2), Aimee Jaynes Living Trust and John Jaynes, (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 May 31, 2007.
- According to the application, the applicant owns, or has consent to withdraw ground water underlying 135 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 135 acres of land claimed in the application is 4692 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 173.8 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)(l) annual withdrawals shall be allowed on the basis of an aquifer life of 100 years.
- The applicant proposes to exclude from decree in this case 12.0 acre-feet of the allowed average annual amount of water available in the aquifer from beneath the overlying land to allow for the excluded water's withdrawal by proposed exempt wells. Under administration of a 100-year aquifer life, 1,200 acre-feet of water should be excluded from this decree to provide for reservation of such water for the proposed exempt wells.
- To ensure that the exempt wells will be limited to the 12 acre-feet per year of availability, and allow administration of both this decree and the proposed exempt wells, the decree shall impose the following conditions on the issuance of the exempt well permits.

Page 2

Case No.: 07CW56

Applicant: Aimee Jaynes Living Trust and John Jaynes

Aquifer: Dawson

a. All permits must be issued pursuant to C.R.S. 37-92-602(3)(b)(II)(A), under a presumption of no injury. No permits may be issued pursuant to C.R.S. 37-92-602(3)(b)(I).

b. Each permit must be issued as the only well on an identified tract of land.

- c. No exempt well may be located on any subdivision of land as defined by C.R.S. 30-28-101(10), whether such subdivision occurs before or after issuance of an exempt permit. Should the tract on which an exempt well is located be subdivided subsequent to issuance of the exempt permit, that permit shall become invalid and the well must either be plugged or re-permitted as a non-exempt well pursuant to this decree.
- d. The decree must identify the number of exempt wells that will be applied for on the 135 acres of overlying land that is the subject of this application, and the annual withdrawal that each well will be limited to, with a cumulative annual withdrawal by all wells not to exceed 12 acre-feet. Should any wells serve lots in a cluster development, those wells must be limited to diversions at a ratio not to exceed one acre-foot of annual withdrawals for each thirty-five acres within the cluster development.
- e. All well permit applications must reference this case, and contain a requested annual withdrawal consistent with the amount identified by the applicant in item D above.

f. All permits must contain an annual withdrawal limitation.

- g. The cumulative sum of annual withdrawals by all exempt wells withdrawing the reserved water shall not exceed 12 acre-feet.
- h. Applicant shall be placed on notice that the NE1/4, SW1/4, Sec. 28, T12S, R65W, 6<sup>th</sup> PM is currently encumbered by exempt well permit 131621, and no other exempt well permits may be issued in that 40 acres unless that permit is cancelled.
- 7. The quantity of water in the aquifer underlying the lands claimed in the application that may be decreed is 3492 acre-feet (the quantity of water in the aquifer underlying the land claimed in the application less 1,200 acre-feet), and the allowed average annual amount of water available for withdrawal from the aquifer underlying the lands claimed in the application is 34.9 acre-feet (the quantity of water which is considered available for decree 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 these amounts.
- 8. 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 not nontributary ground water as defined in C.R.S. 37-90-103(10.5). 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.
- 9. The allowed average annual amount of water available for withdrawal from the aquifer underlying the lands claimed in the application is 34.9 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.

Case No.: 07CW56

Applicant: Aimee Jaynes Living Trust and John Jaynes

Aquifer: Dawson

10. Underlying the land claimed in the application, the base of the aquifer is, as specified in the Denver Basin Rules, located to a depth of approximately 402 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 24 TH day of Sptember

Dick Wolfe State Engineer

Don West

Water Resources Engineer

Prepared by: DDW

#### OFFICE OF THE STATE ENGINEER **DETERMINATION OF FACTS**

IN THE MATTER OF AN APPLICATION FOR UNDERGROUND WATER RIGHTS IN WATER DIVISION NO. 2, EL PASO COUNTY, COLORADO

CASE NO.:

07CW56

APPLICANT: AIMEE JAYNES LIVING TRUST AND JOHN JAYNES

AQUIFER:

DENVER

In compliance with C.R.S. 37-92-302(2), Aimee Jaynes Living Trust and John Jaynes, (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:

- The application was received by the Water Court on May 31, 2007. 1.
- According to the application, the applicant owns, or has consent to withdraw ground water 2. underlying 135 acres of land as further described in said application.
- The quantity of water in the Denver Aquifer (hereinafter "aquifer"), exclusive of artificial 3. recharge, underlying the 135 acres of land claimed in the application is 6924 acre-feet. This determination was based on the following as specified in the Denver Basin Rules:
  - The average specific yield of the saturated aquifer materials underlying the land a. claimed in the application is 17 percent.
  - The average thickness of the saturated aquifer materials underlying the land b. claimed in the application is 301.7 feet.
- In determining the amount of ground water available for withdrawal annually from this 4. aguifer, 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.
- A review of the records in the State Engineer's Office has not disclosed that there are any 5. existing wells or other water rights claiming or diverting ground water from the aquifer underlying the land claimed by the applicant.
- Withdrawal of ground water from the aquifer underlying the land claimed in the application 6. 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 not 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

Case No.: 07CW56

Applicant: Aimee Jaynes Living Trust and John Jaynes

Aguifer: Denver

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 69.2 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 432 feet to 1339 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 July day of September

2007

Dick Wolfe State Engineer

Don West

Water Resources Engineer

Prepared by: DDW

#### OFFICE OF THE STATE ENGINEER DETERMINATION OF FACTS

IN THE MATTER OF AN APPLICATION FOR UNDERGROUND WATER RIGHTS IN WATER DIVISION NO. 2, EL PASO COUNTY, COLORADO

CASE NO.: 07CW56

APPLICANT: AIMEE JAYNES LIVING TRUST AND JOHN JAYNES

AQUIFER: ARAPAHOE

In compliance with C.R.S. 37-92-302(2), Aimee Jaynes Living Trust and John Jaynes, (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 May 31, 2007.
- 2. According to the application, the applicant owns, or has consent to withdraw ground water underlying 135 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 135 acres of land claimed in the application is 5806 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 253 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)(l) 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 not disclosed that there are any existing wells or other water rights claiming or diverting ground water from the aquifer underlying the land claimed by the applicant.
- 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

Case No.: 07CW56 Page 2

Applicant: Aimee Jaynes Living Trust and John Jaynes

Aquifer: Arapahoe

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 58.1 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 1383 feet to 1872 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 24th day of September, 2

Hal D. Simpson State Engineer

Don West

Water Resources Engineer

Prepared by: DDW

#### OFFICE OF THE STATE ENGINEER **DETERMINATION OF FACTS**

IN THE MATTER OF AN APPLICATION FOR UNDERGROUND WATER RIGHTS IN WATER

DIVISION NO. 2, EL PASO COUNTY, COLORADO

CASE NO.: 07CW56

APPLICANT: AIMEE JAYNES LIVING TRUST AND JOHN JAYNES

AQUIFER: LARAMIE FOX-HILLS

In compliance with C.R.S. 37-92-302(2), Aimee Jaynes Living Trust and John Jaynes, (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 May 31, 2007.
- 2. According to the application, the applicant owns, or has consent to withdraw ground water underlying 135 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 135 acres of land claimed in the application is 3847 acre-feet. This determination was based on the following as specified in the Denver Basin Rules:
  - The average specific yield of the saturated aquifer materials underlying the land a. 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 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 not disclosed that there are any existing wells or other water rights claiming or diverting ground water from the aquifer underlying the land claimed by the applicant.
- 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

EFILED Document - District Court 2007CW56 GO Pueblo County District Court 10th JD Filing Date: Dec 26 2007 8:57AM MST Hiling ID: 17781289 DISTRICT COURT, WATER DIVISION 2, COLORADO Review Clerk: Mardell Didomenico 320 WEST 10<sup>TH</sup> STREET **PUEBLO, CO 81003** PHONE NUMBER: (719) 583-7011 CONCERNING THE APPLICATION FOR WATER RIGHTS OF: AIMEE R. JAYNES LIVING TRUST AND JOHN R. JAYNES ▲ COURT USE ONLY ▲ IN EL PASO COUNTY, COLORADO. CASE No. 07CW56 WATER DIVISION 2 FINDINGS OF FACT, CONCLUSIONS OF LAW, AND JUDGMENT AND DECREE

This matter came before the Court upon the Application of Applicants to Quantify Underground Nontributary and Not Nontributary Water Rights.

The Water Judge referred the Application to the undersigned Water Referee for Water Division No. 2, State of Colorado, in accordance with Article 92 of Chapter 37, Colorado Revised Statutes 1973, known as the Water Rights Determination Act of 1969.

The undersigned Referee has made such investigations as are necessary to determine whether or not the statements in the Application are true, has become fully advised with respect to the subject matter of the Application and has consulted with the Division Engineer for Water Division No. 2. The Referee hereby makes the following determination and ruling as the Referee in this matter.

#### I. FINDINGS OF FACT

1. <u>Applicants</u>: The Applicants are the Aimee R. Jaynes Living Trust, c/o Kenneth H. Jaynes, whose address is 201 Eighth Street, Glenwood Springs, Colorado 81601 and John R. Jaynes, whose address is 8225 Poco Road, Colorado Springs, Colorado 80908. The Applicants are represented by Balcomb & Green, P.C., P. O. Drawer 790, Glenwood Springs, Colorado 81602, 970/945-6546.

2. The Application: Applicants filed an Application to Quantify Underground Nontributary and Not Nontributary Water Rights on May 31, 2007. The Application was properly published in the resume for Water Division No. 2. All notices required by law have been made, and the Court has jurisdiction over the Application and over all of the parties in this case. No statements of opposition were filed in this case and the time for filing such statements has expired. The Court finds that the relief requested herein is consistent with the relief originally requested in the Application and for which public notice was provided. None of the water rights or structures involved herein are located within a designated groundwater basin.

#### CLAIM TO QUANTIFY UNDERGROUND NONTRIBUTARY AND NOT NONTRIBUTARY WATER RIGHTS

- 3. <u>Purpose of Application</u>: Applicants own approximately 135 acres, more or less, in El Paso County, Colorado, generally described as portions of Sections 28 and 33, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., and as shown on the map attached hereto as **Figure 1**. This Application seeks to adjudicate all the ground water in the Denver Basin Aquifers underlying Applicants' Property. Applicants are the owners of the Property described in **Figure 1**. While some of the water underlying Applicants' Property is classified as not nontributary and requires replacement to the affected stream pursuant to a decreed plan for augmentation, no such diversions or plan for augmentation is sought by this application.
- 4. <u>Sources of Water</u>: There are four aquifers located beneath Applicants' property; Dawson, Denver, Arapahoe, and the Laramie-Fox Hills. Ground water from the Dawson and Denver aquifers is classified as not nontributary and ground water from the Arapahoe and Laramie-Fox Hills aquifers is classified as nontributary.
- 5. Right to Ground Water Claimed: Applicants seek a decree for all ground water determined to be available from each aquifer named above underlying the 135 acres of land described above based upon a statutory aquifer life of one hundred years. Withdrawals in the average amounts determined to be available from each named aquifer can be made pursuant to section 37-90-137(4), C.R.S. (2006), without causing material injury to the vested rights of others, provided that withdrawals of not nontributary ground water may be made only pursuant to a judicially approved plan for augmentation of stream depletions caused by such withdrawals.
- 6. <u>Water Excluded from Quantification</u>: Applicants have excluded 12.0 acre-feet of the average annual amount of withdrawal determined available from the not nontributary Dawson aquifer underlying the 135 acres of land described above. The 12.0 acre-feet per year of ground water shall be available for withdrawal and use through exempt wells located on or to be located on Applicants' property and limited to an annual maximum withdrawal of 3.0 acre-feet per year per exempt well permit.
- 6. Quantification of Available Water: The estimated average annual amounts of withdrawal available from each aquifer are as follows:

Aquifer	Area in Acres	Avg. Saturated Thickness	Specific Yield	Legal Status	Avg. Annual Amount	Excluded Armual Armount	Total Annual Amount Claimed
Dawson	135	173.8 FT	0.20	NNT	46.9 AF	12 AF	34.9 AF
Denver (4% relinquishment)	135	301.7 FT	0.17	NNT	69.2 AF	N/A	69.2 AF
Arapahoe	135	253.0 FT	0.17	NT	58.1 AF	N/A	58.0 AF
Laramie-Fox Hills	135	190.0 FT	0.15	NT	38.5 AF	N/A	38.5 AF

- a. Dawson Aquifer. Ground water available from the Dawson aquifer is below the entire property. Withdrawals from the aquifer will require an approved plan for augmentation.
- b. Denver Aquifer. Ground water available from the Denver aquifer is below the entire property. The Property overlies that portion of the Denver aquifer that requires four percent (4%) of the annual amount pumped to be relinquished to the stream. Withdrawals from the Denver aquifer will require an approved plan for augmentation.
- c. Arapahoe Aquifer. Ground water from the Arapahoe aquifer is below the entire Property. Pursuant to the State Engineer's Rules and Regulations, only 98 percent of the water to be withdrawn will be consumed.
- d. Laramie-Fox Hills Aquifer. Ground water from the Laramie-Fox Hills aquifer is below the entire Property. Pursuant to the State Engineer's Rules and Regulations, only 98 percent of the water to be withdrawn will be consumed.
- 7. <u>Determination of Facts</u>: The amounts and values of water described in paragraph 6 above conform with the State Engineer's September 24, 2007 Determination of Facts Reports.
- 8. <u>Well Permits</u>: Well permit applications may be applied for at a later time pursuant to the terms of the decree entered in this case. Applicants request the right to construct wells anywhere on the Applicants' Property in order to recover the entire amount of ground water found to be available in each aquifer. Any well to be drilled into any non-tributary aquifer shall be cased so as to prevent withdrawal of water from more than one aquifer.
- 9. <u>Well Fields</u>: The right to withdraw all of the legally available ground water in the subject aquifers underlying Applicants' Property may be accomplished through any well(s)

initially permitted in such aquifer and any additional well(s) which may in the future become part of the Applicants' well field. As additional wells are constructed, well permit applications will be filed in accordance with § 37-90-137(10), C.R.S. The State Engineer shall issue well permits based on the full acreage of the property described in this Application.

- 10. <u>Rate of Withdrawal</u>: Applicants may withdraw more than the average annual amount estimated above pursuant to Rule 8A of the <u>Statewide Nontributary Groundwater Rules</u> (2 C.C.R. 402-7). Applicants will withdraw water at whatever rate is required in order to do so, and when the water is needed during the course of any year.
- 11. <u>Uses</u>: The water quantified herein shall be used, reused, leased, sold, or otherwise used to extinction for: domestic, irrigation, commercial, agricultural, municipal (if sold to a municipality), stock watering, recreational, piscatorial, wildlife, fire protection or other beneficial purposes and for exchange or augmentation of such uses upon or off Applicants' property.

#### II. CONCLUSIONS OF LAW

- 1. To the extent they constitute legal conclusions, the foregoing Findings of Fact are incorporated herein.
- 2. All notices required by law have been properly made, including as required under C.R.S. § 37-92-302(3). The Court has jurisdiction over the Application and over all persons or entities who had standing to appear, even though they did not do so.
- 3. The Application is completed, covering all applicable matters required pursuant to the Water Right Determination and Administration Act of 1969, C.R.S. §§ 37-92-101 through 602.
- 4. The Court has given due consideration to the Office of the State Engineer's Determination of Facts dated September 24, 2007 and the Division Engineer's Summary of Consultation dated November 6, 2007. See C.R.S. § 37-92-302(2)(a).
- 5. Applicants have fulfilled all legal requirements for an entry of a decree for the requested water rights, including C.R.S. §§ 37-92-302 and 37-92-305.
- 6. The rights to not nontributary and tributary groundwater determined herein shall not be administered in accordance with priority of appropriation. Such rights are not "conditional water rights" as defined by C.R.S. § 37-92-103(6) and no subsequent diligence findings are required.

#### III. JUDGMENT AND DECREE

- 1. The foregoing Findings of Fact and Conclusions of Law are incorporated herein.
- 2. <u>Adjudication</u>: The water rights claimed herein and described above are hereby confirmed, vested and adjudicated.
- 3. <u>Well Permits</u>: Exempt well permits issued pursuant to this decree for water from the Dawson aquifer shall be subject to the following conditions:
  - a. Exempt well permits will be issued pursuant to C.R.S. § 37-92- $602(3)(b)(\Pi)(A)$ , under a presumption of no injury. No permits may be issued pursuant to C.R.S. § 37-92-602(3)(B)(I).
  - b. Exempt well permits must be issued as the only well on an identified tract of land.
  - c. No exempt well may be located on any subdivision of land as defined by C.RS. § 30-28-101(10), whether such subdivision occurs before or after issuance of an exempt well permit. Should the tract on which an exempt well is located be subdivide subsequent to issuance of the exempt permit, that permit shall become invalid and the well must either be plugged or re-permitted as a non-exempt well pursuant to this decree.
  - d. Applicant may seek up to four exempt well permits with cumulative annual withdrawals not to exceed twelve acre feet. If any wells are to be located in a cluster development, these wells shall be limited to diversions at a ratio not to exceed one acre foot of annual withdrawals for each thirty-five acres within the cluster development.
  - e. All applications for an exempt well permit for the property described above must reference this case, and contain a requested annual withdrawal rate.
    - f. All exempt well permits must contain an annual withdrawal limitation.
  - g. The cumulative sum of annual withdrawals by all exempt wells withdrawing the reserved water shall not exceed twelve acre feet.
- 4. <u>Retained Jurisdiction</u>: The Court retains jurisdiction as necessary to adjust the average annual amount of not nontributary and nontributary groundwater underlying the Subject property depicted on Figure 1, to conform to actual local aquifer characteristics as determined from site specific information obtained from the wells, pursuant to C.R.S. § 37-92-305(11).
  - a. After completion of any well or any test hole(s), Applicants shall geophysically survey the length of any such well or test hole prior to casing and submit

such geophysical log(s) to the State Engineer in a form acceptable to the State Engineer. A geophysical log shall not be required for an exempt well.

- b. No later than three years after the submission of such geophysical log(s), any person, including the State Engineer, may invoke the Court's retained jurisdiction to make a Final Determination of Water Right. 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 rights finding. The State Engineer shall submit such finding to the Court and to the Applicants.
- c. If no protest to such finding of the State Engineer is made within sixty days, the Court shall incorporate the Final Determination of Rights into this Amended Ruling and Decree. 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 Court after notice and hearing.
- 5. <u>Filing of Decree</u>: It is accordingly ordered that this Ruling of Referee and Judgment and Decree shall be filed with the Water Clerk and shall become effective upon such filing, subject to judicial review pursuant to C.R.S. § 37-92-304, as amended. It is further ordered that a copy of this Ruling of Referee and Judgment and Decree shall be filed with the State Engineer and the Division Engineer for Water Division No. 2.

DONE this day of November, 2007.

BY THE REFEREE:

Mardell R. DiDomenico, Water Referee

State of Colorado

No protest was filed in this matter. The foregoing Ruling of Referee is confirmed and approved, and is made the Judgment and Decree of this Court.

Done this 12 day of Lecture

BY THE COURT:

Dennis Maes, Water Judge

State of Colorado

T13S

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Overview Map

Legend

9650 Vollmer Property General Location Map Figure 1 Jaynes

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Review Clerk: Mardell Didomenico

DISTRICT COURT, WATER DIVISION 2

Court Address: 320 W. 10<sup>TH</sup> St., #203

Pueblo, CO 81003

Phone Number: (719) 583-7048

CONCERNING THE APPLICATION OF MORLEY-BENTLEY INVESTMENTS, LLC FOR ADJUDICATION OF DENVER BASIN GROUNDWATER

IN EL PASO COUNTY.

Attorneys for Applicant:

William H. Fronczak, #35043

Christopher Sutton #4369

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Filing ID: 36431301

Δ COURT USE ONLY Δ

Case No: 08CW113

# 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	$0.60^{3}$	N-NT (4%)
Laramie-Fox Hills	190	$0.40^{3}$	NT

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.

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.

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

- 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.

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

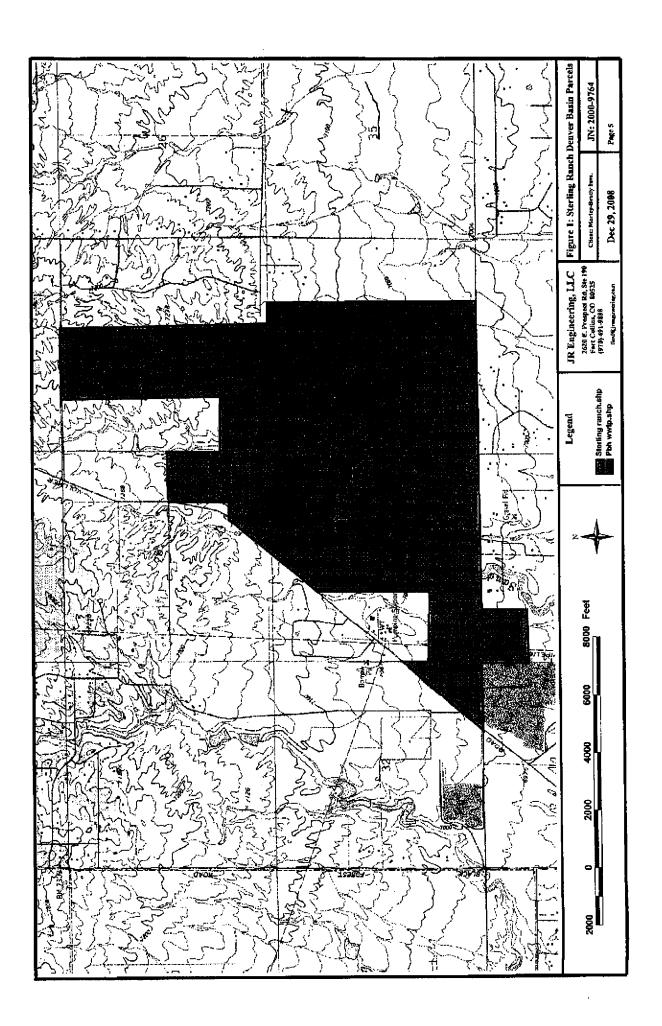
The foregoing Ruling comes before the Court after the time period for raising objections to the same pursuant to C.R.S. §37-92-304(2) has expired. The Court, having reviewed the Ruling and being familiar with the terms of the same, hereby approves and enters said Ruling as a Judgment and Decree of this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

## **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 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 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 FACTS EFILED Document - District Court

2008CW113

CO Pueblo County District Court 10th JD

IN THE MATTER OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF AN APPLICATION FOR UNDERGROUND THE MATTER AND A PROPERTY OF A PROPERT

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:
  - The average specific yield of the saturated aquifer materials underlying the land a. claimed in the application is 20 percent.
  - The average thickness of the saturated aquifer materials underlying the land b. claimed in the application is 145,8 feet.
- In determining the amount of ground water available for withdrawal annually from this 4. 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.
- A review of the records in the State Engineer's Office has disclosed that there are existing 5. wells or other water rights withdrawing ground water from the aguifer 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 aguifer for the minimum aguifer life of 100 years. The effect of this calculation is

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 aguifer 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	21th	day of	Marsh	2	009
Daltu IIIIS		uay vi	NUMBER	. 4	UUJ.

Dick Wolfe, P.E.

Director/State Engineer

Sarah Reinsei

Water Resources Engineer

Prepared by: SKR

Case No.: 08CW113

Applicant: Morley-Bentley Investments, LLC

Aquifer: Dawson

## **EXHIBIT A**

Well		L	ocation							
<u>Number</u>	<u>Q40</u>	<u>Q160</u>	Sec.	Twp.	Rng.	<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	128	65W	16.1	112	20	1001	71
8747-R	NE	\$W	33	12\$	65W	12.9	114	20	886	57
8748-R	NE	SW	33	128	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)

Page 3

## 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 THE HIS LINE IN WATER DIVISION NO. 2 FL PASO COUNTY COLORADO

DIVISION NO. 2, EL PASO COUNTY, COLORADO

Review Clerk: Mardell Didomenico

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:
  - The average specific yield of the saturated aquifer materials underlying the land a. claimed in the application is 17 percent.
  - The average thickness of the saturated aquifer materials underlying the land b. claimed in the application is 313.8 feet.
- In determining the amount of ground water available for withdrawal annually from this 4. 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)(l) 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).

Page 2

- 7. The allowed average annual amount of water available for withdrawai 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	<b>⊿</b> ₩	day of	March		, 2009.
Dated tills	4	uay o	MUREN	- 1	, 2009.

Dick Wolfe, P.E.

Director/State Engineer

Saral Reinsel

Water Resources Engineer

Prepared by: SKR

Case No.: 08CW113

Applicant: Morley-Bentley Investments, LLC

Aquifer: Denver

## **EXHIBIT** A

Page 3

Well							
<u>Number</u>	<u>Q40</u>	<u>Q160</u>	Sec.	Twp.	Rng.	<u>AF</u>	<u>Area</u>
19961-F 26947-F	NE SW	NE SW	5 32	13S 12S	65W 65W	58 20.3	1.44 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 FINE PASS COUNTY COLORADO Filing ID: 24095714

DIVISION NO. 2, EL PASO COUNTY, COLORADO

Review Clerk: Mardell Didomenico

CASE NO.:

08CW113

APPLICANT: MORLEY-BENTLEY INVESTMENTS, LLC

AQUIFER: ARAPAHOE

In compliance with C.R.S. 37-92-302(2), Morley-Bentley investments, L.L.C. (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.
- The quantity of water in the Arapahoe Aquifer (hereinafter "aquifer"), exclusive of artificial 3. 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:
  - The average specific yield of the saturated aquifer materials underlying the land a. claimed in the application is 17 percent.
  - The average thickness of the saturated aquifer materials underlying the land b. claimed in the application is 251.4 feet.
- In determining the amount of ground water available for withdrawal annually from this 4. 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.

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).

Page 2

- 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 4	+h da⊤	y of <u>Mai</u>	mh .	2009.

Dick Wolfe, P.E.

Director/State Engineer

Sarak Reinsel

Water Resources Engineer

Prepared by: SKR

## 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 FURTHER BUSH S IN WATER

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:
  - The average specific yield of the saturated aguifer materials underlying the land a. 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.
- In determining the amount of ground water available for withdrawal annually from this 4. 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 aguifer 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.

Page 2

- 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	444	dav of	March	, 2009.

Dick Wolfe, P.E.

Director/State Engineer

Sarak Reinsel

Water Resources Engineer

Prepared by: SKR

DISTRICT COURT, WATER DIVISION NO. 2, STATE OF COLORADO

OCT 29 1986

Case No. 86-CW-18

Priscille Lyner

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

Clerk

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

- l. 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 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  $\bar{7}$ 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.

(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.
- 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 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 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. 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 acre-feet per year were that 581 available 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, 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 claimed herein until totally consumed free of 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

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 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. evidence presented shows that the Applicants intend appropriate the waters claimed herein, that such intent 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.

## 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) acrenontributary ground water per year is decreed and 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 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 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. 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 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 one-year 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 taken in accordance with the applicable promulgated by the State Engineer. In constructing 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 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.

Sherman and Howard (Salazar) 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.

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

OCT 29 1986

Principer Sylvers Clerk

#### EXHIBIT A

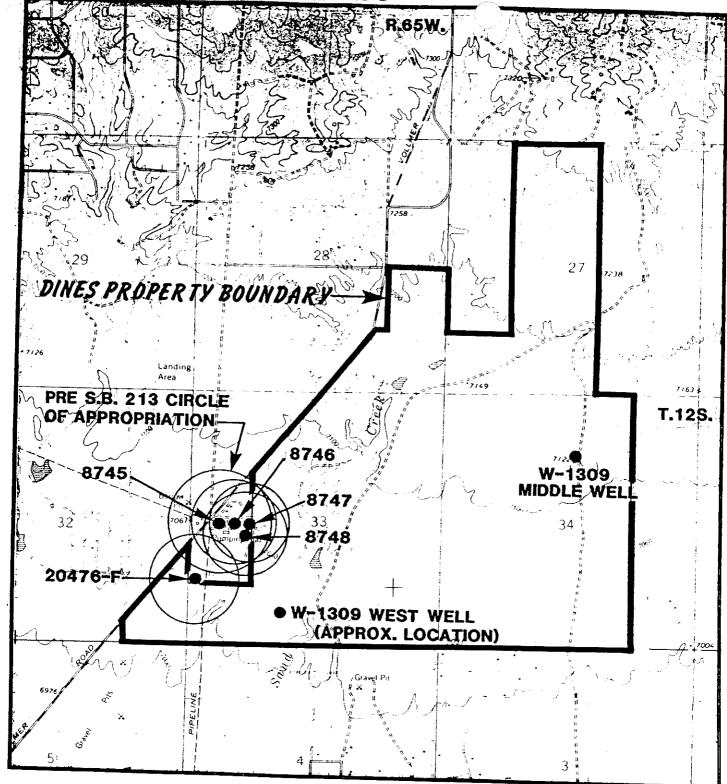
The Subject Lands consist of the following:

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 NEI/4 SEI/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 premises, except that portion of the SW1/4 NW1/4 of 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

Priscille Lyner



**SCALE 1:24000** 

## **LOCATION MAP**

FIGURE 1

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

OCT 29 1986 Prisciller Surers

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

OCT 29 1986

Case No. 86-CW-19

Priseiles Arguers

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

Clerk

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 Court this \_29 day of \_\_\_\_\_\_\_, 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

- l. 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.

- 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 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 be withdrawn through the proposed wells described 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 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 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.
- The State Engineer in his Determination of Facts that 423 acre-feet per year were available 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 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, 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 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 waters sought in the Application and 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 withdrawal by the structures decreed herein and the vested water others rights of will not be materially injured appropriations as decreed. Only that quantity of water underlying the Subject Lands has been considered to unappropriated; the minimum useful life of the Laramie-Fox Hills at least one hundred (100) years, assuming 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. 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.

- 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 is entitled to as subsequently determined from the saturated sand thickness of the Laramie-Fox Hills Aquifer determined from the geophysical data obtained from construction of the wells. Geophysical logs shall be taken in accordance with the applicable rules promulgated by the State 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 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. 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 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 one-year 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 promulgated by the State Engineer. In constructing 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. 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

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

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

Riscilla Lyners Clerk

#### EXHIBIT A

The Subject Lands consist of the following:

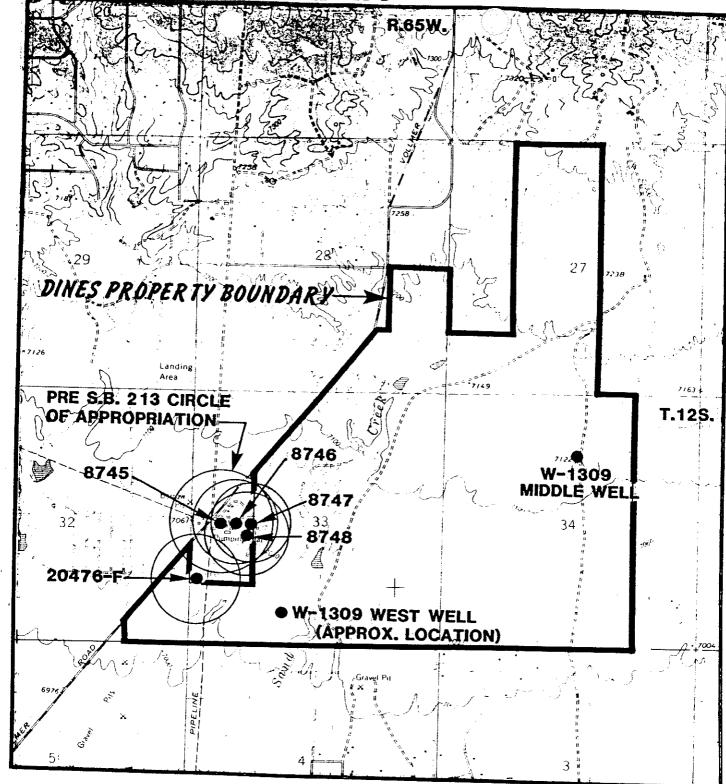
The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the El/2 SEl/4 and that portion of the SWl/4 SEl/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, and that 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 premises, except that portion of the SW1/4 NW1/4 of 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

Priscille L. Lyners

Clerk



**SCALE 1:24000** 

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

OCT 29 1986

# **LOCATION MAP**

FIGURE 1



217062313 5/31/2017 10:16 AM \$88.00 DF \$0.00

Electronically Recorded Official Records El Paso County CO Chuck Broerman, Clerk and Recorder

> DATE FILED: May 31, 2017 9:37 AM CASE NUMBER: 2017CW3002

▲ COURT USE ONLY ▲

Case No.: 17CW3002

TD1000 N

**DISTRICT COURT, WATER DIVISION 2, COLORADO** 

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** 

**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**

- 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.
- 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.
- 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.
- On February 2, 2017, the Division 2 Water Court ordered that publication occur in the Daily Transcript within 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 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:

#### A. <u>Arroya Parcel (225.97 acres)</u>:

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

## B. West Parcel No. 1 (Decoto – 36.01 acres):

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

## C. West Parcel No. 2 (Decoto – 36.03 acres):

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

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.

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.

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 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. 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 aguifers 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 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.

#### 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:

Marawa P. Diranico

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 \$TAMED "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 \$00°54'30" F. 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
- 2. S89°40'23"W, A BISTANCE 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 \$30°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 \$27°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" F 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-OUARTER (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 (NEI/4 NEI/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 (NW 1/4 NW 1/4), 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 PARCEL OF LAND LOCATED IN A POPPON OF THE SOUTHEAST ONE-QUARTER (SEL/4) OF SECTION 21 AND A PORTION OF THE STATEMENT ONE-QUARTER (NET/A) OF SECTION 28, TOWNSHIP TO SOUTH, RANGE &S MEST OF THE STATEMENT, IL PASO COUNTY, COLORADO, BONG MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARNICS: THE WEST CIBE OF THE SOUTHEAST ONE-QUARTER (SET/A) OF SECTION 21, TOWNSHIP to south, rance os west is assumed to bear nodustion. A distance of ordest teet.

COMMENSORS AT THE DEFINACIT CORNER OF DAID IGUIDIEATH ONE-QUARTER (DEL/\*) DAND FORT ALLOW BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED:

THENCE ND025/32W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER (SEX/4); A DISTANCE OF \$50.11 FEET:

THENCE N89'40'31'E, A DISTANCE OF 2077 12 FEET TO A POINT ON THE WESTERLY BIGHT-OF-WAY LINE OF VOLUMER ROAD AS DESCRIBED IN THE DISCLIMENT RESCRIBED IN SHOOK 2678 AT PAGE 430 OF THE RECENSES OF THE EL PARO COUNTY CLERK AND RECORDER.

THENCE SET41'10'W ALONG SAID WESTERLY RIGHT-OF-WAY LINE, A DISTANCE DE 2813'88 FEET TO A POINT

ON THE EAST LINE OF THE WORTHWEST ONE-QUARTER OF THE WORTHEAST ONE-QUARTER (WWW/A NET/4)
OF SAID SECTION 28:

THENCE NOTATION ALONG SAID FAST LINE, A DISTANCE OF 1217-12 FORT TO THE SQUINGAST BORRIES OF THE SIXTHMEST ONE QUARTER OF THE SOUTHEAST ONE CHARTER (SW)/A SC)/4) OF SAID SECTION 21: THENCE SECTION ALONG THE SOUTH UNE OF SAID SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER (SW)/A SE1/A), A DISTANCE OF 13/3/AS FEET TO THIS POINT OF BEQUIRED.

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 38.01 ACRES OF LAND, MORE OR LESS.

## **EXHIBIT C**

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

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SC)/4) OF SECTION 21. TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, 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 SCUTH, RANGE 65 WEST IS ASSUMED TO BEAR NOO'25 32\*N, A DISTANCE OF 2638.53 FEET;

COMMENCING AT THE SCUTHMEST CORNER OF SAID SOUTHEAST CHE-QUARTER (SCI/4);
THENCE NOO'28'32'N ALONG THE WEST LINE OF SAID SOUTHEAST CHE-QUARTER (SCI/4), A DISTANCE OF SAID SOUTHEAST CHE-QUARTER (SCI/4), A DISTANCE OF SAID SOUTHEAST CHE-QUARTER (SCI/4), A DISTANCE OF SAID NEST LINE, A DISTANCE OF 708 70 FEET.

THENCE NOO'25' TA'N CONTINUINS ALONG SAID WEST LINE, A DISTANCE OF 708 70 FEET.

THENCE NOO'25' TA'N CONTINUINS ALONG SAID WEST LINE, A DISTANCE OF THE RECORDS OF THE RECORDS OF THE PASS COUNTY OLERS AND RECORDER.

THENCE S21'41' O'N ALONG SAID WESTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 762.78 FEET,

THENCE S89'40'31'N A DISTANCE OF 2077.12 FEET TO THE POINT OF BESIDENCY.

SAID PARCEL OF LAND CONTAINS A CALCULATED APEA OF 36.03 ACRES OF LAND , HORE, OF YESS.

## EXHIBIT D

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

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE GUARTER (SEL/A) OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASC COUNTY, COLORADO. BOING MORE PARTICULARLY DESORDED AS FOLLOWS:

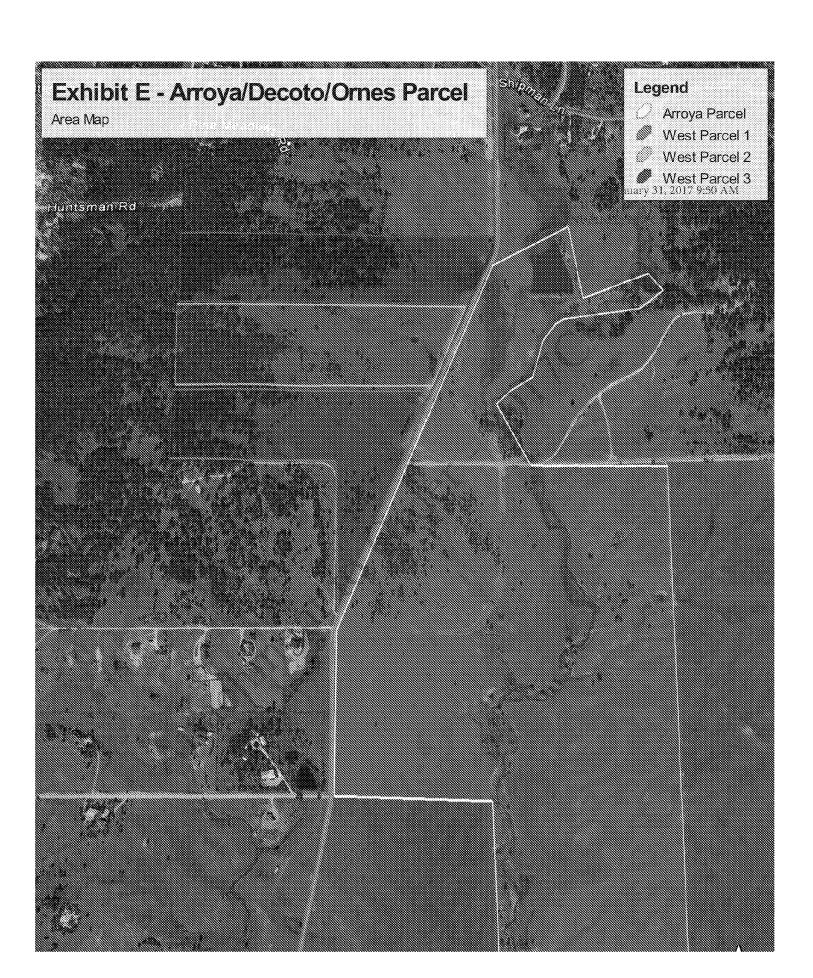
SASIS OF BEARINGS: THE WEST LINE OF THE SOUTHEAST ONE-QUARTER (SEL/A) OF SECTION 21. TOWNSHIP 12 SOUTH, RANGE 65 WEST IS ASSUMED TO SEAR NOO'25 32'W, A DISTANCE OF 2058,50 FEST.

COMMENCING AT THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER (SEL/4);
THENCE NODES 12 W ALONG THE MEST UNE OF SAID SOUTHEAST ONE-QUARTER (SEL/4), A DISTANCE OF
LISE SI TEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREN DESCRIPED;
THINCE NODES 12 W CONTRIBUTE BLONG SAID WEST UNE. A DISTANCE OF 656 30 FEET;
THENCE NORTH A DISTANCE OF 250018 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAT LINE OR
VOLUMEN ROAD AS DESCRIPED IN THE DOLUMENT RECORDED IN BOOK 2678 AT PACE 430 OF THE RECORDS. OF THE EL PASO COUNTY CLERK AND RECORDER;

DIENCE ALONG SAID WESTERLY RIGHT-OF WAY UNE THE FOLLOWING TWO (2) COUPSES: 1. SDC-3714-E, A DISTANCE OF 98-54 FEET; 2. SZI'RI'FOW, A DISTANCE OF 891-81 FEET;

THEREOF SERVOLET W. A DISTANCE OF 2384 C4 FEET TO THE HORSE OF BEGINNING

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 17.58 ACRES OF LAND. MORE OR LESS.



218092584 8/9/2018 3:54 PM PGS 12 \$68.00 DF \$0.00

Electronically Recorded Official Records El Paso County CO Chuck Broerman, Clerk and Recorder

TD1000 N

**DISTRICT COURT, WATER DIVISION 2, CO** 

Court Address: 501 North Elizabeth Street,

Suite 116

Pueblo, CO 81003

Phone Number: (719) 404-8832

ARROYA INVESTMENTS, LLC

DATE FILED: August 9, 2018 3:38 PM

▲ COURT USE ONLY ▲

CASE NUMBER: 2018CW3002

**CONCERNING THE APPLICATION FOR WATER** 

RIGHTS OF:

**Case No.: 18CW3002** (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, 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 SE¼ of Section 21 and a portion of the SW¼ of Section 22, Township 12 South, Range 65 West of the 6th 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, 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 guestion 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:

Margar R. Ditmorico

Mardell R. DiDomenico, Water Referee Water Division 2

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 9th, 2018.

# **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 \$14°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 \$27°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-OUARTER (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:

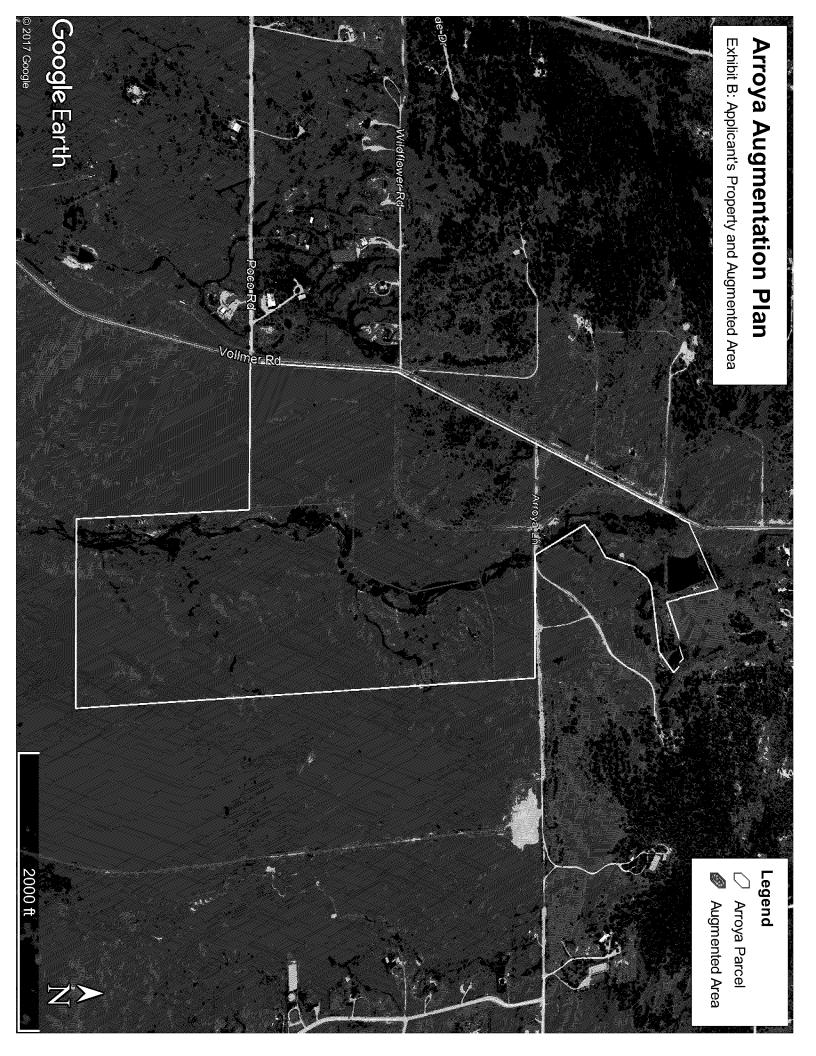
THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1450.84 FEET TO THE POINT OF INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY RECORDS;

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

CONCERNING THE APPLICATION FOR WATER

RIGHTS OF:

STERLING RANCH METROPOLITAN DISTRICT

NO. 1

IN EL PASO COUNTY

DATE FILED: March 4, 2022 10:52 AM

CASE NUMBER: 2020CW3059

▲ COURT USE ONLY ▲

Case No.: 20CW3059

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 inpriority 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. Name of Structure: 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. Amount Claimed: 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 feed 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 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. Existing and Future Wells. 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

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.

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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 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

This represents the annually estimated available quantity of water for a 300-year pumping life, as required by El Paso County Land Development Code.

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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 aguifers, 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 aguifers, respectively.

# 28. Water Rights to be Used for Augmentation.

A. <u>Depletions During Pumping.</u> During the pumping life of the not-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 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. 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 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.

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 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. Quantification of Reusable LIRFs. 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 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. 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
     2) Daily Estimated LIRF Volume (Credits to Alluvium)
     3) Daily Obligations to Alluvium
     4) Daily Excess Credits to Alluvium

    = Column AR
    Column AT
    Column AT
    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. Other Supplies of Augmentation Water of Limited Duration. 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. Additional Water rights Temporary Administrative Approval. 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 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.
- B. 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 aguifers 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 aguifers 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 post-pumping 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 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 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 aguifers 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. Retained Jurisdiction. 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 depletions is less than the amount of water reserved herein, and other 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 1st and November 1st of each year and shall submit their meter readings to the Water Commissioner by April 15th and November 15th 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:

- A. Upon the sale or transfer of a conditional water right, the transferee 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;
  - 3. The name of the transferor:
  - 4. The name and mailing address of the transferee; and
  - 5. A copy of the recorded deed.
- B. The transferor of any conditional water rights shall notify the clerk of 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.
- 61. As to the conditional water rights, pursuant to C.R.S. §37-92-301(4)(a), the 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 <a href="March">March</a>, and the year of 2028, file an application for a finding of reasonable diligence herein, unless Applicant has, prior to that time, made application to make absolute the conditional water rights guaranteed herein.
- 62. 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: 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 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# 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 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 SW1# 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.

#### 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:

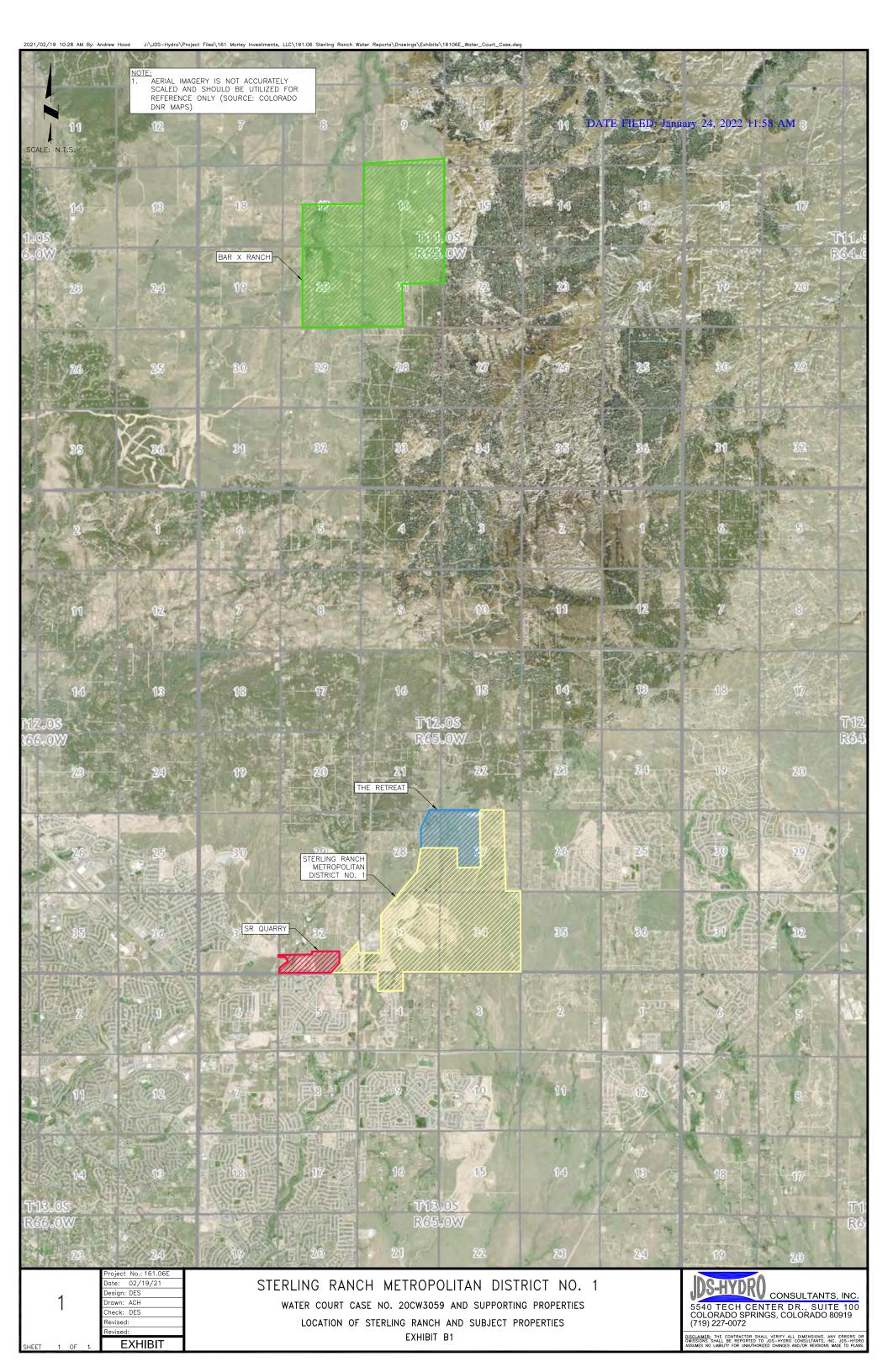
1.N00°37'14"W SAID LINE ALSO BEING THE WEST LINE OF THE SOUTHWEST ONE-QUARTER (SW1/4) OF SAID SECTION 22, A DISTANCE OF 30.00 FEET; 2.S89°40'23"W, A DISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THEEASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF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

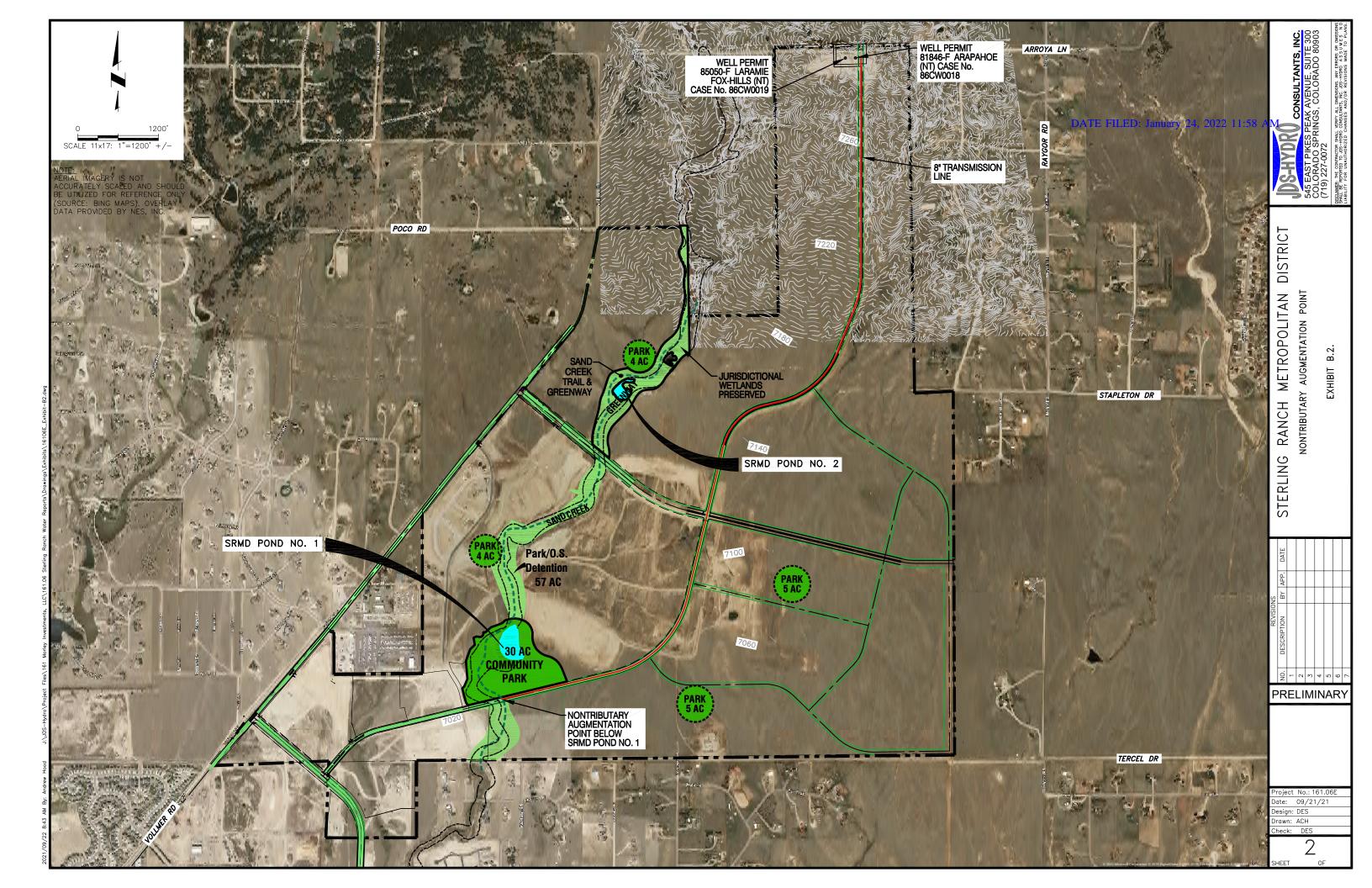
#### Along With:

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 (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-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-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-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-OUARTER OF THE NORTHWEST ONE-OUARTER (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.





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

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

No. 1	
Beginning of Day Staff Gauge Reading Beginning of Day Volume <sup>1</sup> End of Day Staff Gauge Reading End of Day Staff Volume <sup>1</sup> End of Day Gain / Loss in Volume (D-B)	ft Acre-feet ft Acre-feet ft ft
Beginning of Day Staff Gauge Reading Beginning of Day Volume <sup>2</sup> End of Day Staff Gauge Reading End of Day Staff Volume <sup>2</sup> End of Day Gain / Loss in Volume (I-G)	ft Acre-feet ft Acre-feet ft
Total Volume Gain / Loss in Volume (E+J) Is there a Free River? (yes / no) Admin Number of Calling Right	Acre-feet
1) Volume from SRMD Pond No. 1 Stage-Storage Table No.	1

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.

Lvaporation	Accounting - SRMD Pond No. 1 and Pond No. 2	
Date:		
SRMD Pond	No. 1	
A)	Beginning of Day Staff Gauge Reading	ft
· ·	Beginning of Day Surface Area <sup>1</sup>	Acre-feet
	End of Day Staff Gauge Reading	ft
•	End of Day Staff Surface Area <sup>1</sup>	Acre-feet
•	End of Day Average Surface Area (D-B)	ft
•	Precipitation <sup>2</sup>	inches
•	Effective Precipitation (((F)*0.7)/12)	ft
-	Gross Lake Evaporation <sup>3</sup>	ft
	Net Lake Evaporation (I-G)	AF/Acre
•	Daily Average Evaporation (J*E)	AF
SRMD Pond	No. 2	
L)	Beginning of Day Staff Gauge Reading	ft
M)	Beginning of Day Surface Area <sup>2</sup>	Acre-feet
N)	End of Day Staff Gauge Reading	ft
O)	End of Day Staff Surface Area <sup>2</sup>	Acre-feet
P)	End of Day Average Surface Area (D-B)	ft
Q)	Precipitation <sup>2</sup>	inches
R)	Effective Precipitation (((Q)*0.7)/12)	ft
S)	Gross Lake Evaporation <sup>3</sup>	ft
T)	Net Lake Evaporation (S-R)	AF/Acre
U)	Daily Average Evaporation (T*P)	AF
Summary		
V)	Total Evaporation Volume (U+K)	Acre-feet
W)	Is there a Free River? (yes / no)	
X)	Admin Number of Calling Right	
Noto	4) Valuma from CDMD Dand No. 1 Stage Surface Area Table No.	1

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

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-No	ontributary Well Pumping	
1) SR (	Quarry Denver Well No. 1	
	<ul> <li>A) Meter Reading - Beginning of Day</li> <li>B) Meter Reading - End of Day</li> <li>C) Total gallons pumped (B-A)</li> <li>D) Alluvial depletions (4%*C)</li> <li>E) Alluvial deplations (D/325851)</li> </ul>	gallons gallons gallons gallons AF
2) SR (	Quarry Arapahoe Well No. 1	
	<ul> <li>F) Meter Reading - Beginning of Day</li> <li>G) Meter Reading - End of Day</li> <li>H) Total gallons pumped (G-F)</li> <li>I) Alluvial depletions (4%*H)</li> <li>J) Alluvial deplations (I/325851)</li> </ul>	gallons gallons gallons gallons AF
3) SRM	ID Well D-1	
	<ul> <li>K) Meter Reading - Beginning of Day</li> <li>L) Meter Reading - End of Day</li> <li>M) Total gallons pumped (L-K)</li> <li>N) Alluvial depletions (4%*N)</li> <li>O) Alluvial deplations (N/325851)</li> </ul>	gallons gallons gallons gallons AF
	P) Total alluvial depletions (E+J+O)	AF
<u>Nontril</u>	butary Well Pumping	
4) SRM	ID Well A-1	
	<ul> <li>Q) Meter Reading - Beginning of Day</li> <li>R) Meter Reading - End of Day</li> <li>S) Total gallons pumped (R-Q)</li> <li>T) Total gallons pumped (S/325851)</li> </ul>	gallons gallons gallons 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 Ir	rigation Return Flows (LIRF) Calculations	
Date:		
LIRF Cr	redit 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	15 %
	F) Estiamted LIRF volume (D*E)	AF

Column	Sterling Kar Case No. 20 prepared by Daily Data 6	ch Metropostan District CM3039 - Daily Accounting Summa r: JDS-Hydro Consultants, Inc. May Form	ry for Aug	mentation	n Man																										
			SRMD SRMD Scase S BOD	Pond No. 2 forecase 600 St	2 Total Total Pond Aus Surface Storace Storace Awa	SRMD Precio	Fund No. Gross Sixes	Net You Sive	Evaporation of Asia Surface o Asia	SRMD F	und No. 1 Second No.	int Total	Total Pond Even	Free River N	Admin. Name of SR Quarry Dan Call Right Pursued Date	er Well No.	NOT SR Custry Area Well No. 1 Pursued Desire Desire Pur	SRMD West Put	So. 1 Total SS Dealer Dealer Purso	D Well-1	NT SRMD that LF Pursued Aug	Money Was	Metered Metered Auc Municipal Municipal for Intraston Like Intraston Like	LISS  Edinate: Aducted Minimu  Losses Inlandon LISS  67 25% the Rate 6	LSS Volume	Yotal Depletions to Alluvium	State Summery  Remaining Augmentation  State Augmentation Augmentation Credits to Alloware Collegations of Collegations	Remaining Augmentation Obligations	Augmentation Credits in Sizess of Chilgations	Monthly Remaining Augmentation Chilipations	Summary  Augmentation Credits in Excess Citigations
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## **EXHIBIT D**

SRI	MD Pond No. 1	Elevation-Are	ea-Capacity -	JDS-Hydro -	September 2021
Staff Cago	Depth	Elevation	Area (20)	Capacity	
Staff Gage	Берип	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		00th 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	

SRI	MD Pond No. 2	Elevation-Are	a-Capacity -	JDS-Hydro -	September 2021
Staff Gage	Depth	Elevation	Area (ac)	Capacity (ac-ft)	
0	0.00	DATE F	LF <sub>0</sub> L <sub>0</sub> 00Jar	ua <b>o</b> yood4,	R0962volidB5t8omM
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
	Elevati	on-Area-Capa	city Interpol	ated to 1/10	Oth 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	
0.18	0.18	7114.18	0.005	0.004	
0.19	0.19	7114.19	0.006	0.004	
0.20	0.20	7114.20	0.006	0.004	
0.21	0.21	7114.21	0.006	0.004	
0.22	0.22	7114.22	0.007	0.004	
0.23	0.23	7114.23	0.007	0.005	
0.24	0.24	7114.24	0.007	0.005	
0.25	0.25	7114.25	0.008	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		0.31	0.31	7114.31	0.009	0.006	
0.32	0.32	7028.32	0.197	0.197		0.32	0.32	7114.32	0.010	0.006	
0.33	0.33	7028.33	0.203	0.203	ŀ	0.33	0.33	7114.33	0.010	0.007	
0.34	0.34	7028.34	0.209	0.209		0.34	0.34	7114.34	0.010	0.007	
0.35	0.35	7028.35	0.215	0.215	ŀ	0.35	0.35	7114.35	0.011	0.007	
0.36	0.36	7028.36	0.221	0.221	t	0.36	0.36	7114.36	0.011	0.007	
0.37	0.37	7028.37	0.228	0.228	ŀ	0.37	0.37	7114.37	0.011	0.007	
0.38	0.38	7028.37	0.234	0.234		0.38	0.38	7114.37	0.011	0.007	
0.39	0.39	7028.38	0.234	0.234		0.39	0.39	7114.39	0.011	0.008	
0.39	0.39	7028.39 <b>7028.40</b>	0.246	0.246	•	0.39	0.39	7114.39	0.012	0.008	
0.41	0.41	7028.41	0.252	0.252	ŧ	0.41	0.41	7114.41	0.012	0.008	
0.41	0.41	7028.41	0.252	0.252	}	0.41	0.41	7114.41	0.012	0.008	
	0.42	7028.42	0.258	0.258	ŀ		0.42	7114.42		0.008	
0.43			0.264		}	0.43			0.013		
0.44 <b>0.45</b>	0.44 <b>0.45</b>	7028.44 <b>7028.45</b>	0.271 <b>0.277</b>	0.271 <b>0.277</b>	}	0.44 <b>0.45</b>	0.44 <b>0.45</b>	7114.44 <b>7114.45</b>	0.013 <b>0.014</b>	0.009 <b>0.009</b>	
					+						
0.46	0.46	7028.46	0.283	0.283	ŀ	0.46	0.46	7114.46	0.014	0.009	
0.47	0.47	7028.47	0.289	0.289	}	0.47	0.47	7114.47	0.014	0.009	
0.48	0.48	7028.48	0.295	0.295	-	0.48	0.48	7114.48	0.014	0.010	
0.49	0.49	7028.49	0.301	0.301	-	0.49	0.49	7114.49	0.015	0.010	
0.50	0.50	7028.50	0.308	0.308	1	0.50	0.50	7114.50	0.015	0.010	
0.51	0.51	7028.51	0.314	0.314		0.51	0.51	7114.51	0.015	0.010	
0.52	0.52	7028.52	0.320	0.320		0.52	0.52	7114.52	0.016	0.010	
0.53	0.53	7028.53	0.326	0.326		0.53	0.53	7114.53	0.016	0.011	
0.54	0.54	7028.54	0.332	0.332		0.54	0.54	7114.54	0.016	0.011	
0.55	0.55	7028.55	0.338	0.338	1	0.55	0.55	7114.55	0.017	0.011	
0.56	0.56	7028.56	0.344	0.344		0.56	0.56	7114.56	0.017	0.011	
0.57	0.57	7028.57	0.351	0.351		0.57	0.57	7114.57	0.017	0.011	
0.58	0.58	7028.58	0.357	0.357		0.58	0.58	7114.58	0.017	0.012	
0.59	0.59	7028.59	0.363	0.363		0.59	0.59	7114.59	0.018	0.012	
0.60	0.60	7028.60	0.369	0.369	Ţ	0.60	0.60	7114.60	0.018	0.012	
0.61	0.61	7028.61	0.375	0.375		0.61	0.61	7114.61	0.018	0.012	
0.62	0.62	7028.62	0.381	0.381	Į	0.62	0.62	7114.62	0.019	0.012	
0.63	0.63	7028.63	0.387	0.387	Į	0.63	0.63	7114.63	0.019	0.013	
0.64	0.64	7028.64	0.394	0.394		0.64	0.64	7114.64	0.019	0.013	
0.65	0.65	7028.65	0.400	0.400	l	0.65	0.65	7114.65	0.020	0.013	
0.66	0.66	7028.66	0.406	0.406		0.66	0.66	7114.66	0.020	0.013	
0.67	0.67	7028.67	0.412	0.412		0.67	0.67	7114.67	0.020	0.013	
0.68	0.68	7028.68	0.418	0.418		0.68	0.68	7114.68	0.020	0.014	
0.69	0.69	7028.69	0.424	0.424		0.69	0.69	7114.69	0.021	0.014	
0.70	0.70	7028.70	0.430	0.430		0.70	0.70	7114.70	0.021	0.014	
0.71	0.71	7028.71	0.437	0.437	Ī	0.71	0.71	7114.71	0.021	0.014	
0.72	0.72	7028.72	0.443	0.443	Ţ	0.72	0.72	7114.72	0.022	0.014	
0.73	0.73	7028.73	0.449	0.449	ļ	0.73	0.73	7114.73	0.022	0.015	
0.74	0.74	7028.74	0.455	0.455	ļ	0.74	0.74	7114.74	0.022	0.015	
0.75	0.75	7028.75	0.461	0.461	ļ	0.75	0.75	7114.75	0.023	0.015	
0.76	0.76	7028.76	0.467	0.467	Ť	0.76	0.76	7114.76	0.023	0.015	

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	
0.72	0.72	7114.72	0.022	0.014	
0.73	0.73	7114.73	0.022	0.015	
0.74	0.74	7114.74	0.022	0.015	
0.75	0.75	7114.75	0.023	0.015	
0.76	0.76	7114.76	0.023	0.015	

0.77	0.77	7028.77	0.474	0.474	
0.78	0.78	7028.77	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	7028.91	0.566	0.566	
0.93	0.93	7028.93	0.572	0.572	
0.94	0.94	7028.94	0.578	0.572	
0.95	0.95	7028.95	0.584	0.584	
0.96	0.96	7028.96	0.590	0.590	
0.97	0.97	7028.90	0.597	0.597	
0.98	0.98	7028.97	0.603	0.603	
0.99	0.99	7028.99	0.609	0.609	
1.00	1.00	<b>7028.99</b>	0.615	0.615	
1.01	1.01	7029.01	0.621	0.621	
1.02	1.02	7029.02	0.627	0.627	
1.03	1.03	7029.03	0.633	0.633	
1.04	1.04	7029.04	0.640	0.640	
1.05	1.05	7029.05	0.646	0.646	
1.06	1.06	7029.06	0.652	0.652	
1.07	1.07	7029.07	0.658	0.658	
1.08	1.08	7029.08	0.664	0.664	
1.09	1.09	7029.09	0.670	0.670	
1.10	1.10	7029.10	0.676	0.676	
1.11	1.11	7029.11	0.683	0.683	
1.12	1.12	7029.12	0.689	0.689	
1.13	1.13	7029.13	0.695	0.695	
1.14	1.14	7029.14	0.701	0.701	
1.15	1.15	7029.15	0.707	0.707	
1.16	1.16	7029.16	0.713	0.713	
1.17	1	7029.17	0.720	0.720	
,	1.17			J., _U	
1.18	1.17 1.18			0.726	
1.18 1.19	1.18	7029.18	0.726	0.726 0.732	
1.19	1.18 1.19	7029.18 7029.19	0.726 0.732	0.732	
1.19 <b>1.20</b>	1.18 1.19 1.20	7029.18 7029.19 <b>7029.20</b>	0.726 0.732 <b>0.738</b>	0.732 <b>0.738</b>	
1.19	1.18 1.19	7029.18 7029.19	0.726 0.732	0.732	

0.77	0.77	7114.77	0.023	0.015	
0.78	0.77	7114.77	0.023	0.015	
0.79	0.78	7114.78	0.023	0.016	
0.79	0.79	7114.79	0.024	0.016	
0.81	0.81		0.024		
0.82	0.82	7114.81 7114.82	0.024	0.016 0.016	
0.83	0.83	7114.83	0.025	0.017	
0.84	0.84	7114.84	0.025	0.017	
0.85	0.85	7114.85	0.026	0.017	
0.86	0.86	7114.86	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	7114.89	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	0.018	
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	
0.97	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	7115.04	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	1.11	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	7115.19	0.150	0.077	
1.20	1.20	7115.20	0.156	0.080	
1.21	1.21	7115.21	0.162	0.083	
1.22	1.22	7115.22	0.169	0.086	

1.23	1.23	7029.23	0.756	0.756	
1.24	1.24	7029.24	0.763	0.763	
1.25	1.25	7029.25	0.769	0.769	
1.26	1.26	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	0.824	0.824	
1.36	1.36	7029.36	0.836	0.836	
1.37	1.37	7029.37	0.843	0.843	
1.37	1.37	7029.37	0.849	0.849	
1.38	1.38	7029.38	0.855	0.849	
1.39	1.39	7029.39 <b>7029.40</b>	0.855	0.855	
1.41	1.41	7029.41	0.867	0.867	
1.41	1.41	7029.41			
1.42	1.42	7029.42	0.873 0.879	0.873 0.879	
	1				
1.44 <b>1.45</b>	1.44 <b>1.45</b>	7029.44 <b>7029.45</b>	0.886 <b>0.892</b>	0.886 <b>0.892</b>	
1.46 1.47	1.46 1.47	7029.46	0.898	0.898	
	1	7029.47	0.904	0.904	
1.48	1.48	7029.48	0.910	0.910	
1.49 <b>1.50</b>	1.49 <b>1.50</b>	7029.49	0.916	0.916	
		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 <b>1.55</b>	1.54 <b>1.55</b>	7029.54 <b>7029.55</b>	0.947 <b>0.953</b>	0.947 <b>0.953</b>	
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	1.009	1.009	
1.65	1.65	7029.65	1.015	1.015	
1.66	1.66	7029.66	1.021	1.021	
1.67	1.67	7029.67	1.027	1.027	
1.68	1.68	7029.68	1.033	1.033	

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1.23	1.23	7115.23	0.175	0.089	
1.24	1.24	7115.24	0.181	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	0.104	
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	1.69	7115.69	0.465	0.227	
1.70	1.70	7115.70	0.471	0.230	
1.71	1.71	7115.71	0.477	0.233	
1.72	1.72	7115.71	0.483	0.236	
1.73	1.73	7115.72	0.490	0.239	
1.74	1.74	7115.73	0.496	0.242	
1.75	1.75	7115.75	0.502	0.245	
1.76	1.76	7115.76	0.509	0.248	
1.77	1.77	7115.77	0.515	0.251	
1.78	1.78	7115.77	0.521	0.254	
1.79	1.79	7115.79	0.528	0.257	
1.80	1.80	7115.80	0.534	0.260	
1.81	1.81	7115.81	0.540	0.263	
1.82	1.82	7115.82	0.546	0.266	
1.83	1.83	7115.83	0.553	0.269	
1.84	1.84	7115.84	0.559	0.272	
1.85	1.85	7115.85	0.565	0.275	
1.86	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         2.16         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         7116.25         0.706         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	
2.17         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         7116.29         0.713         0.604           2.30         2.30         7116.30         0.715         0.612           2.31         2.31         7116.31         0.717         0.620           2.33         2.33         7116.33         0.720         0.637           2.34	
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         7116.25         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         7116.33         0.720         0.637           2.33	
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         7116.29         0.713         0.604           2.30         2.30         7116.30         0.715         0.612           2.31         2.31         7116.30         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	
2.20         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	
2.21       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       7316.36       0.726       0.662         2.37       2.37	
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       7116.40 <td></td>	
2.23       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       7116.39       0.731       0.688         2.40       2.40       7116.40       0.733       0.696         2.41	
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       7116.35       0.726       0.662         2.37       2.37       7116.37       0.727       0.671         2.38       2.38       7116.39       0.731       0.688         2.40       2.40       7116.40       0.733       0.696         2.41       2.41	
2.25         2.26         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         7116.39         0.731         0.688           2.40         2.40         7116.40         0.733         0.696           2.41	
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       7116.39       0.731       0.688         2.40       2.40       7116.40       0.733       0.696         2.41       2.41       7116.42       0.736       0.713         2.43       2.43       7116.43       0.740       0.738         2.44       2.44	
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       7116.40       0.733       0.696         2.41       2.41       7116.40       0.734       0.704         2.42       2.42       7116.42       0.736       0.713         2.43       2.43       7116.44       0.740       0.730         2.45       2.45	
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       7116.40       0.733       0.688         2.40       2.40       7116.40       0.733       0.696         2.41       2.41       7116.42       0.736       0.713         2.43       2.43       7116.43       0.738       0.721         2.44       2.44       7116.44       0.740       0.738         2.45       7116.45 <td></td>	
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         716.44         0.740         0.730           2.44	
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         7116.45         0.742         0.738           2.45	
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       7116.45       0.742       0.738         2.45       7116.45       0.742       0.738         2.46       2.46       7116.47       0.745       0.755	
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       7116.47       0.745       0.755	
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       7116.47       0.745       0.755	
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	
2.35         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	
2.36         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	
2.37         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         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	
2.38         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	
2.39     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	
2.40         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	
2.41     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	
2.42     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	
2.43     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	
2.44     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	
2.45         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	
2.46         2.46         7116.46         0.743         0.746           2.47         2.47         7116.47         0.745         0.755	
2.47 2.47 7116.47 0.745 0.755	
2.49 2.49 7416.49 0.747 0.762	
2.48   2.48   7116.48   0.747   0.763	
2.49 2.49 7116.49 0.749 0.772	
<b>2.50 2.50 7116.50</b> 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	
<b>2.55 2.55 7116.55</b> 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	
<b>2.60 2.60 7116.60</b> 0.768 0.864	

2.62				2.102	2.61	2.61	7116.61	0.770	0.872	
	2.62	7030.62	1.351	2.117	2.62	2.62	7116.62	0.772	0.881	
2.63	2.63	7030.63	1.353	2.131	2.63	2.63	7116.63	0.773	0.889	
2.64	2.64	7030.64	1.355	2.145	2.64	2.64	7116.64	0.775	0.898	
2.65	2.65	7030.65	1.357	2.160	2.65	2.65	7116.65	0.777	0.906	
2.66	2.66	7030.66	1.359	2.174	2.66	2.66	7116.66	0.779	0.914	
2.67	2.67	7030.67	1.361	2.188	2.67	2.67	7116.67	0.780	0.923	
2.68	2.68	7030.68	1.363	2.202	2.68	2.68	7116.68	0.782	0.931	
2.69	2.69	7030.69	1.365	2.217	2.69	2.69	7116.69	0.784	0.940	
2.70	2.70	7030.70	1.366	2.231	2.70	2.70	7116.70	0.786	0.948	
2.71	2.71	7030.71	1.368	2.245	2.71	2.71	7116.71	0.788	0.956	
2.72	2.72	7030.72	1.370	2.260	2.72	2.72	7116.72	0.789	0.965	
2.73	2.73	7030.73	1.372	2.274	2.73	2.73	7116.73	0.791	0.973	
2.74	2.74	7030.74	1.374	2.288	2.74	2.74	7116.74	0.793	0.982	
2.75	2.75	7030.75	1.376	2.303	2.75	2.75	7116.75	0.795	0.990	
2.76	2.76	7030.76	1.378	2.317	2.76	2.76	7116.76	0.796	0.998	
2.77	2.77	7030.77	1.380	2.331	2.77	2.77	7116.77	0.798	1.007	
2.78	2.78	7030.78	1.382	2.345	2.78	2.78	7116.78	0.800	1.015	
2.79	2.79	7030.79	1.384	2.360	2.79	2.79	7116.79	0.802	1.024	
2.80	2.80	7030.80	1.386	2.374	2.80	2.80	7116.80	0.803	1.032	
2.81	2.81	7030.81	1.388	2.388	2.81	2.81	7116.81	0.805	1.040	
2.82	2.82	7030.82	1.390	2.403	2.82	2.82	7116.82	0.807	1.049	
2.83	2.83	7030.83	1.392	2.417	2.83	2.83	7116.83	0.809	1.057	
2.84	2.84	7030.84	1.394	2.431	2.84	2.84	7116.84	0.811	1.066	
2.85	2.85	7030.85	1.396	2.446	2.85	2.85	7116.85	0.812	1.074	
2.86	2.86	7030.86	1.398	2.460	2.86	2.86	7116.86	0.814	1.082	
2.87	2.87	7030.87	1.400	2.474	2.87	2.87	7116.87	0.816	1.091	
2.88	2.88	7030.88	1.402	2.488	2.88	2.88	7116.88	0.818	1.099	
2.89	2.89	7030.89	1.404	2.503	2.89	2.89	7116.89	0.819	1.108	
2.90	2.90	7030.90	1.405	2.517	2.90	2.90	7116.90	0.821	1.116	
2.91	2.91	7030.91	1.407	2.531	2.91	2.91	7116.91	0.823	1.124	
2.92	2.92	7030.92	1.409	2.546	2.92	2.92	7116.92	0.825	1.133	
2.93	2.93	7030.93	1.411	2.560	2.93	2.93	7116.93	0.827	1.141	
2.94	2.94	7030.94	1.413	2.574	2.94	2.94	7116.94	0.828	1.150	
2.95	2.95	7030.95	1.415	2.589	2.95	2.95	7116.95	0.830	1.158	
2.96	2.96	7030.96	1.417	2.603	2.96	2.96	7116.96	0.832	1.166	
2.97	2.97	7030.97	1.419	2.617	2.97	2.97	7116.97	0.834	1.175	
2.98	2.98	7030.98	1.421	2.631	2.98	2.98	7116.98	0.835	1.183	
2.99	2.99	7030.99	1.423	2.646	2.99	2.99	7116.99	0.837	1.192	
3.00	3.00	7031.00	1.425	2.660	3.00	3.00	7117.00	0.839	1.200	
3.01	3.01	7031.01	1.427	2.674	3.01	3.01	7117.01	0.841	1.208	
3.02	3.02	7031.02	1.429	2.689	3.02	3.02	7117.02	0.842	1.217	
3.03	3.03	7031.03	1.431	2.703	3.03	3.03	7117.03	0.844	1.225	
3.04	3.04	7031.04	1.433	2.717	3.04	3.04	7117.04	0.846	1.234	
3.05	3.05	7031.05	1.435	2.732	3.05	3.05	7117.05	0.848	1.242	1

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	

3.07	3.07	7031.07	1.439	2.760	
				+	
3.08	3.08	7031.08	1.441	2.774	
3.09	3.09	7031.09	1.443	2.789	
3.10	3.10	7031.10	1.444	2.803	
3.11	3.11	7031.11	1.446	2.817	
3.12	3.12	7031.12	1.448	2.832	
3.13	3.13	7031.13	1.450	2.846	
3.14	3.14	7031.14	1.452	2.860	
3.15	3.15	7031.15	1.454	2.875	
3.16	3.16	7031.16	1.456	2.889	
3.17	3.17	7031.17	1.458	2.903	
3.18	3.18	7031.18	1.460	2.917	
3.19	3.19	7031.19	1.462	2.932	
3.20	3.20	7031.20	1.464	2.946	
3.21	3.21	7031.21	1.466	2.960	
3.22	3.22	7031.22	1.468	2.975	
3.23	3.23	7031.23	1.470	2.989	
3.24	3.24	7031.24	1.472	3.003	
3.25	3.25	7031.25	1.474	3.018	
3.26	3.26	7031.26	1.476	3.032	
3.27	3.27	7031.27	1.478	3.046	
3.28	3.28	7031.28	1.480	3.060	
3.29	3.29	7031.29	1.482	3.075	
3.30	3.30	7031.30	1.483	3.089	
3.31	2 24	7024 24	1 100	2 102	
	3.31	7031.31	1.485	3.103	
3.32	3.31	7031.31	1.485	3.118	
	1				
3.32 3.33 3.34	3.32 3.33 3.34	7031.32 7031.33 7031.34	1.487 1.489 1.491	3.118 3.132 3.146	
3.32 3.33	3.32 3.33	7031.32 7031.33	1.487 1.489	3.118 3.132	
3.32 3.33 3.34 3.35 3.36	3.32 3.33 3.34 3.35 3.36	7031.32 7031.33 7031.34	1.487 1.489 1.491 <b>1.493</b> 1.495	3.118 3.132 3.146	
3.32 3.33 3.34 3.35	3.32 3.33 3.34 3.35	7031.32 7031.33 7031.34 <b>7031.35</b>	1.487 1.489 1.491 <b>1.493</b>	3.118 3.132 3.146 <b>3.161</b>	
3.32 3.33 3.34 3.35 3.36	3.32 3.33 3.34 3.35 3.36	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36	1.487 1.489 1.491 <b>1.493</b> 1.495	3.118 3.132 3.146 <b>3.161</b> 3.175	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39	3.32 3.33 3.34 3.35 3.36 3.37	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501	3.118 3.132 3.146 <b>3.161</b> 3.175 3.189 3.203 3.218	
3.32 3.33 3.34 3.35 3.36 3.37 3.38	3.32 3.33 3.34 3.35 3.36 3.37 3.38	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38	1.487 1.489 1.491 1.493 1.495 1.497 1.499	3.118 3.132 3.146 <b>3.161</b> 3.175 3.189 3.203	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38 7031.39	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501	3.118 3.132 3.146 <b>3.161</b> 3.175 3.189 3.203 3.218	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38 7031.39 <b>7031.40</b>	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501	3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38 7031.39 <b>7031.40</b>	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503	3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38 7031.39 <b>7031.40</b> 7031.41	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505	3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38 7031.39 <b>7031.40</b> 7031.41 7031.42 7031.43	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507	3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38 7031.40 7031.41 7031.42 7031.43 7031.44	1.487 1.489 1.491 1.493 1.495 1.497 1.501 1.503 1.505 1.507 1.509	3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.44	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38 7031.40 7031.41 7031.42 7031.43 7031.44 <b>7031.44</b>	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 1.509 1.511	3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 3.304	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.44 3.45	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38 7031.39 <b>7031.40</b> 7031.41 7031.42 7031.43 7031.44 <b>7031.45</b>	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 1.509 1.511 1.513	3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 3.304 3.318	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38 7031.39 <b>7031.40</b> 7031.41 7031.42 7031.43 7031.44 <b>7031.45</b> 7031.46 7031.47	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 1.511 1.513 1.515	3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 3.304 3.318 3.332	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47 3.48	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47 3.48	7031.32 7031.33 7031.34 <b>7031.35</b> 7031.36 7031.37 7031.38 7031.40 7031.41 7031.42 7031.43 7031.44 <b>7031.45</b> 7031.46 7031.47	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 1.511 1.513 1.515 1.517	3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 3.304 3.318 3.332 3.346	
3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47 3.48 3.49	3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47 3.48 3.49	7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.39 7031.40 7031.41 7031.42 7031.43 7031.45 7031.46 7031.47 7031.48 7031.49	1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 1.509 1.511 1.513 1.515 1.517 1.519	3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 3.304 3.318 3.332 3.346 3.361	

			i e	i T	
3.07	3.07	7117.07	0.851	1.259	
3.08	3.08	7117.08	0.853	1.267	<u> </u>
3.09	3.09	7117.09	0.855	1.276	1
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	<u> </u>
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	7031.57	1.538	3.489	
3.59	3.59	7031.50	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		
3.68	3.68	7031.67	1.558	3.618 3.632	
3.69					
3.70	3.69 <b>3.70</b>	7031.69 <b>7031.70</b>	1.560 <b>1.561</b>	3.647 <b>3.661</b>	
	+				
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	
3.55	3.55	7117.55	0.936	1.662	
3.56	3.56	7117.56	0.938	1.670	
3.57	3.57	7117.57	0.940	1.679	
3.58	3.58	7117.58	0.942	1.687	
3.59	3.59	7117.59	0.943	1.696	
3.60	3.60	7117.60	0.945	1.704	
3.61	3.61	7117.61	0.947	1.712	
3.62	3.62	7117.62	0.949	1.721	
3.63	3.63	7117.63	0.950	1.729	
3.64	3.64	7117.64	0.952	1.738	
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	0.957	1.763	
3.68	3.68	7117.68	0.959	1.771	
3.69	3.69	7117.69	0.961	1.780	
3.70	3.70	7117.70	0.963	1.788	
3.71	3.71	7117.71	0.965	1.796	
3.72	3.72	7117.72	0.966	1.805	
3.73	3.73	7117.73	0.968	1.813	
3.74	3.74	7117.74	0.970	1.822	
3.75	3.75	7117.75	0.972	1.830	
3.76	3.76	7117.76	0.973	1.838	
3.77	3.77	7117.77	0.975	1.847	
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	

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	7117.99	1.014	2.032	
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	1.049	2.389	
4.32	4.32	7118.32	1.050	2.400	
4.33	4.33	7118.33	1.051	2.411	
4.34	4.34	7118.34	1.053	2.423	
4.35	4.35	7118.35	1.054	2.434	
4.36	4.36	7118.36	1.055	2.445	
4.37	4.37	7118.37	1.056	2.456	
4.38	4.38	7118.38	1.057	2.468	
4.39	4.39	7118.39	1.058	2.479	
4.40	4.40	7118.40	1.059	2.490	
4.41	4.41	7118.41	1.060	2.501	
4.42	4.42	7118.42	1.061	2.513	
4.43	4.43	7118.43	1.062	2.524	
4.44	4.44				
4.44	4.44	7118.44	1.063	2.535	

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	1.114	3.053	

4.91	4.91	7032.91	1.797	5.742	4.91	4.91	7118.91	1.115	3.064	
4.92	4.92	7032.92	1.799	5.760	4.92	4.92	7118.92	1.116	3.075	
4.93	4.93	7032.93	1.801	5.778	4.93	4.93	7118.93	1.117	3.086	
4.94	4.94	7032.94	1.803	5.796	4.94	4.94	7118.94	1.118	3.098	
4.95	4.95	7032.95	1.805	5.814	4.95	4.95	7118.95	1.119	3.109	
4.96	4.96	7032.96	1.807	5.832	4.96	4.96	7118.96	1.120	3.120	
4.97	4.97	7032.97	1.809	5.851	4.97	4.97	7118.97	1.121	3.131	
4.98	4.98	7032.98	1.811	5.869	4.98	4.98	7118.98	1.122	3.143	
4.99	4.99	7032.99	1.813	5.887	4.99	4.99	7118.99	1.123	3.154	
5.00	5.00	7033.00	1.815	5.905	5.00	5.00	7119.00	1.125	3.165	
5.01	5.01	7033.01	1.817	5.923	5.01	5.01	7119.01	1.126	3.176	
5.02	5.02	7033.02	1.819	5.941	5.02	5.02	7119.02	1.127	3.188	
5.03	5.03	7033.03	1.821	5.959	5.03	5.03	7119.03	1.128	3.199	
5.04	5.04	7033.04	1.823	5.978	5.04	5.04	7119.04	1.129	3.210	
5.05	5.05	7033.05	1.825	5.996	 5.05	5.05	7119.05	1.130	3.221	
5.06	5.06	7033.06	1.827	6.014	5.06	5.06	7119.06	1.131	3.233	
5.07	5.07	7033.07	1.829	6.032	5.07	5.07	7119.07	1.132	3.244	
5.08	5.08	7033.08	1.831	6.050	5.08	5.08	7119.08	1.133	3.255	
5.09	5.09	7033.09	1.833	6.068	5.09	5.09	7119.09	1.134	3.266	
5.10	5.10	7033.10	1.834	6.087	5.10	5.10	7119.10	1.135	3.278	
5.11	5.11	7033.11	1.836	6.105	5.11	5.11	7119.11	1.136	3.289	
5.12	5.12	7033.12	1.838	6.123	5.12	5.12	7119.12	1.138	3.300	
5.13	5.13	7033.13	1.840	6.141	5.13	5.13	7119.13	1.139	3.311	
5.14	5.14	7033.14	1.842	6.159	5.14	5.14	7119.14	1.140	3.323	
5.15	5.15	7033.15	1.844	6.177	5.15	5.15	7119.15	1.141	3.334	
5.16	5.16	7033.16	1.846	6.195	5.16	5.16	7119.16	1.142	3.345	
5.17	5.17	7033.17	1.848	6.214	5.17	5.17	7119.17	1.143	3.356	
5.18	5.18	7033.18	1.850	6.232	5.18	5.18	7119.18	1.144	3.368	
5.19	5.19	7033.19	1.852	6.250	5.19	5.19	7119.19	1.145	3.379	
5.20	5.20	7033.20	1.854	6.268	5.20	5.20	7119.20	1.146	3.390	
5.21	5.21	7033.21	1.856	6.286	5.21	5.21	7119.21	1.147	3.401	
5.22	5.22	7033.22	1.858	6.304	5.22	5.22	7119.22	1.148	3.413	
5.23	5.23	7033.23	1.860	6.322	5.23	5.23	7119.23	1.150	3.424	
5.24	5.24	7033.24	1.862	6.341	5.24	5.24	7119.24	1.151	3.435	
5.25	5.25	7033.25	1.864	6.359	5.25	5.25	7119.25	1.152	3.446	
5.26	5.26	7033.26	1.866	6.377	 5.26	5.26	7119.26	1.153	3.458	
5.27	5.27	7033.27	1.868	6.395	5.27	5.27	7119.27	1.154	3.469	
5.28	5.28	7033.28	1.870	6.413	5.28	5.28	7119.28	1.155	3.480	
5.29	5.29	7033.29	1.872	6.431	5.29	5.29	7119.29	1.156	3.491	
5.30	5.30	7033.30	1.873	6.450	5.30	5.30	7119.30	1.157	3.503	
5.31	5.31	7033.31	1.875	6.468	5.31	5.31	7119.31	1.158	3.514	
5.32	5.32	7033.32	1.877	6.486	5.32	5.32	7119.32	1.159	3.525	
5.33	5.33	7033.33	1.879	6.504	5.33	5.33	7119.33	1.160	3.536	
5.34	5.34	7033.34	1.881	6.522	5.34	5.34	7119.34	1.162	3.548	
5.35	5.35	7033.35	1.883	6.540	5.35	5.35	7119.35	1.163	3.559	
5.36	5.36	7033.36	1.885	6.558	5.36	5.36	7119.36	1.164	3.570	

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	7033.37	1.889	6.595	
5.39	5.39	7033.39	1.891	6.613	
5.40	5.40	7033.40	1.893	6.631	
5.41	5.41	7033.41	1.895	6.649	
5.42	5.42	7033.42	1.897	6.667	
5.43	5.43	7033.43	1.899	6.685	
5.44	5.44	7033.44	1.901	6.704	
5.45	5.45	7033.45	1.903	6.722	
5.46	5.46	7033.46	1.905	6.740	
5.47	5.47	7033.47	1.907	6.758	
5.48	5.48	7033.47	1.909	6.776	
5.49	5.49	7033.49	1.911	6.794	
5.50	5.50	7033.50	1.912	6.813	
5.51	5.51	7033.51	1.914	6.831	
5.52	5.52	7033.51	1.916	6.849	
5.53	5.53	7033.52	1.918	6.867	
5.54	5.54	7033.54	1.920	6.885	
5.55	5.55	7033.55	1.922	6.903	
5.56	5.56	7033.56	1.924	6.921	
5.57	5.57	7033.57	1.926	6.940	
5.58	5.58	7033.57	1.928	6.958	
5.59	5.59	7033.50	1.930	6.976	
5.60	5.60	7033.60	1.932	6.994	
5.61	5.61	7033.61	1.934	7.012	
5.62	5.62	7033.62	1.936	7.030	
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		7022 70			
F 74	5.70	7033.70	1.951	7.176	
5.71	5.70	7033.70	1.951 1.953	<b>7.176</b> 7.194	
5.71					
_	5.71	7033.71	1.953	7.194	
5.72	5.71 5.72	7033.71 7033.72	1.953 1.955	7.194 7.212	
5.72 5.73	5.71 5.72 5.73	7033.71 7033.72 7033.73	1.953 1.955 1.957	7.194 7.212 7.230	
5.72 5.73 5.74	5.71 5.72 5.73 5.74	7033.71 7033.72 7033.73 7033.74	1.953 1.955 1.957 1.959	7.194 7.212 7.230 7.248	
5.72 5.73 5.74 5.75	5.71 5.72 5.73 5.74 5.75	7033.71 7033.72 7033.73 7033.74 <b>7033.75</b>	1.953 1.955 1.957 1.959 1.961	7.194 7.212 7.230 7.248 <b>7.266</b>	
5.72 5.73 5.74 <b>5.75</b> 5.76	5.71 5.72 5.73 5.74 <b>5.75</b> 5.76	7033.71 7033.72 7033.73 7033.74 <b>7033.75</b> 7033.76	1.953 1.955 1.957 1.959 <b>1.961</b> 1.963	7.194 7.212 7.230 7.248 <b>7.266</b> 7.284	
5.72 5.73 5.74 5.75 5.76 5.77	5.71 5.72 5.73 5.74 <b>5.75</b> 5.76 5.77	7033.71 7033.72 7033.73 7033.74 <b>7033.75</b> 7033.76 7033.77	1.953 1.955 1.957 1.959 1.961 1.963 1.965	7.194 7.212 7.230 7.248 <b>7.266</b> 7.284 7.303	
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	7033.71 7033.72 7033.73 7033.74 <b>7033.75</b> 7033.76 7033.77 7033.78	1.953 1.955 1.957 1.959 1.961 1.963 1.965 1.967	7.194 7.212 7.230 7.248 <b>7.266</b> 7.284 7.303 7.321	
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	7033.71 7033.72 7033.73 7033.74 <b>7033.75</b> 7033.76 7033.77 7033.78 7033.79	1.953 1.955 1.957 1.959 1.961 1.963 1.965 1.967	7.194 7.212 7.230 7.248 7.266 7.284 7.303 7.321 7.339	

5.37	5.37	7119.37	1.165	3.581	
5.38	5.38	7119.37	1.166	3.593	
-				-	
5.39 <b>5.40</b>	5.39 <b>5.40</b>	7119.39 <b>7119.40</b>	1.167 <b>1.168</b>	3.604 <b>3.615</b>	
5.41	5.41			-	
+		7119.41	1.169	3.626	
5.42	5.42	7119.42	1.170	3.638	
5.43 5.44	5.43 5.44	7119.43	1.171	3.649	
5.44 <b>5.45</b>	5.44	7119.44 <b>7119.45</b>	1.172 <b>1.174</b>	3.660 <b>3.671</b>	
-				-	
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 <b>5.50</b>	5.49 <b>5.50</b>	7119.49	1.178 <b>1.179</b>	3.716 <b>3.728</b>	
+		7119.50			
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	7119.70	1.201	3.953	
5.71	5.71	7119.71	1.202	3.964	
5.72	5.72	7119.72	1.203	3.975	
5.73	5.73	7119.73	1.204	3.986	
5.74	5.74	7119.74	1.205	3.998	
5.75	5.75	7119.75	1.206	4.009	
5.76	5.76	7119.76	1.207	4.020	
5.77	5.77	7119.77	1.208	4.031	
5.78	5.78	7119.78	1.210	4.043	
5.79	5.79	7119.79	1.211	4.054	
5.80	5.80	7119.80	1.212	4.065	
5.81	5.81	7119.81	1.213	4.076	
5.82	5.82	7119.82	1.214	4.088	

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	

5.83	5.83	7119.83	1.215	4.099	
5.84	5.84	7119.84	1.216	4.110	
5.85	5.85	7119.85	1.217	4.110	
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	

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	
7.03	7.03	7121.03	1.423	5.562	
7.04	7.04	7121.04	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	7121.12	1.440	5.673	
7.13	7.13	7121.13	1.441	5.686	
7.14	7.14	7121.14	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	7.17	7121.17	1.449	5.735	
7.18	7.18	7121.18	1.451	5.747	
7.19	7.19	7121.19	1.452	5.760	
7.20	7.20	7121.20	1.454	5.772	

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	7035.27	2.334	10.619	
7.29	7.29	7035.29	2.336	10.642	
7.30	7.30	7035.20	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	7035.32	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	2.354	10.823	
7.37	7.37	7035.37	2.359	10.825	
7.39	7.39	7035.38	2.362	10.868	
7.39 <b>7.40</b>	7.39 <b>7.40</b>	7035.39 <b>7035.40</b>	2.362 2.364	10.808	
7.41	7.41	7035.40	2.367	10.914	
7.41	7.41			+	
7.42	1	7035.42	2.369	10.936	
	7.43	7035.43	2.372	10.959	
7.44 <b>7.45</b>	7.44 <b>7.45</b>	7035.44 <b>7035.45</b>	2.374 <b>2.377</b>	10.982 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	7.22	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	7035.67	2.435	11.525	
7.69			2.438	11.548	
7.69 <b>7.70</b>	7.69 <b>7.70</b>	7035.69 <b>7035.70</b>	2.438	11.548	
7.71	7.71		2.443		+
		7035.71		11.593	
7.72	7.72	7035.72	2.445	11.616	
7.73	7.73	7035.73	2.448	11.638	
7.74 <b>7.75</b>	7.74 <b>7.75</b>	7035.74 <b>7035.75</b>	2.450 <b>2.453</b>	11.661 <b>11.684</b>	
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 <b>8.00</b>	7.99 <b>8.00</b>	7035.99	2.513	12.227	Smillions Crost / NINA/S
		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 <b>8.05</b>	8.04 <b>8.05</b>	7036.04 <b>7036.05</b>	2.538 <b>2.544</b>	12.353 <b>12.379</b>	
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	
0 10		7026 10	2 571	12 507	
8.10	8.10	7036.10	2.571	12.507	
8.10 8.11 8.12		7036.10 7036.11 7036.12	2.571 2.577 2.582	12.507 12.533 12.558	

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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	8.11	7122.11	1.654	6.936	
8.12	8.12	7122.12	1.658	6.952	

8.13	8.13	7036.13	2.588	12.584	
8.14	8.14	7036.13	2.593	12.610	
8.15	8.15	7036.15	2.599	12.636	
8.16	8.16	7036.16	2.604	12.661	
8.17	8.17	7036.17	2.610	12.687	
8.18	8.18	7036.17	2.615	12.713	
8.19	8.19	7036.19		12.713	
8.20	8.20	<b>7036.19</b>	2.620 <b>2.626</b>	12.764	
8.21	8.21	7036.21	2.631	12.790	
8.22	8.22	7036.21	2.637	12.790	
8.23	8.23	7036.22	2.642		
				12.841	
8.24 <b>8.25</b>	8.24 <b>8.25</b>	7036.24 <b>7036.25</b>	2.648 <b>2.653</b>	12.867 <b>12.893</b>	
8.26	8.26	7036.26	2.659	12.918	
8.27	8.27	7036.27	2.664	12.944	
8.28	8.28	7036.28	2.670	12.970	
8.29	8.29	7036.29	2.675	12.995	
8.30	8.30	7036.30	2.681	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	8.34	7036.34	2.703	13.124	
8.35	8.35	7036.35	2.708	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	7122.13	1.668	6.984	
8.15	8.15	7122.14	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	7122.17	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	

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	

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	7122.93	2.041	8.248	
8.94	8.94	7122.94	2.046	8.264	
8.95	8.95	7122.95	2.051	8.280	
8.96	8.96	7122.96	2.056	8.296	
8.97	8.97	7122.97	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	7123.03	2.089	8.408	
9.04	9.04	7123.04	2.093	8.424	

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	

9.51	9.51	7037.51	3.344	16.131		9.51	9.51	7123.51	2.316	9.176	
9.52	9.52	7037.52	3.349	16.156		9.52	9.52	7123.52	2.320	9.192	
9.53	9.53	7037.53	3.355	16.182	•	9.53	9.53	7123.53	2.325	9.208	
9.54	9.54	7037.54	3.360	16.208		9.54	9.54	7123.54	2.330	9.224	
9.55	9.55	7037.55	3.366	16.234		9.55	9.55	7123.55	2.335	9.240	
9.56	9.56	7037.56	3.371	16.259	į į	9.56	9.56	7123.56	2.339	9.256	
9.57	9.57	7037.57	3.377	16.285		9.57	9.57	7123.57	2.344	9.272	
9.58	9.58	7037.58	3.382	16.311		9.58	9.58	7123.58	2.349	9.288	
9.59	9.59	7037.59	3.388	16.336		9.59	9.59	7123.59	2.354	9.304	
9.60	9.60	7037.60	3.393	16.362	,	9.60	9.60	7123.60	2.358	9.320	
9.61	9.61	7037.61	3.399	16.388	,	9.61	9.61	7123.61	2.363	9.336	
9.62	9.62	7037.62	3.404	16.413		9.62	9.62	7123.62	2.368	9.352	
9.63	9.63	7037.63	3.410	16.439		9.63	9.63	7123.63	2.372	9.368	
9.64	9.64	7037.64	3.415	16.465		9.64	9.64	7123.64	2.377	9.384	
9.65	9.65	7037.65	3.421	16.491		9.65	9.65	7123.65	2.382	9.400	
9.66	9.66	7037.66	3.426	16.516	,	9.66	9.66	7123.66	2.387	9.416	
9.67	9.67	7037.67	3.432	16.542		9.67	9.67	7123.67	2.391	9.432	
9.68	9.68	7037.68	3.437	16.568		9.68	9.68	7123.68	2.396	9.448	
9.69	9.69	7037.69	3.442	16.593		9.69	9.69	7123.69	2.401	9.464	
9.70	9.70	<b>7037.09</b>	3.448	16.619	,	9.09	9.09	7123.09	2.401	9.480	
9.71	9.71	7037.70	3.453	16.645		9.71	9.71	7123.70	2.410	9.496	
9.71	9.71	7037.71	3.453	16.670		9.71	9.71	7123.71	2.410	9.496	
9.73	9.72	7037.72	3.464	16.696		9.72	9.72	7123.72	2.413	9.528	
9.73	9.73	7037.73	3.404	16.722		9.73	9.74	7123.73	2.425	9.544	
9.74	9.74	7037.74 <b>7037.75</b>	3.470 3.475	16.722		9.74	9.74	7123.74	2.425 <b>2.429</b>	9.544	
9.76	9.76	7037.76	3.481	16.773		9.76	9.76	7123.76	2.434	9.576	
9.77	9.77	7037.76	3.486	16.773	,	9.77	9.77	7123.70	2.434	9.592	
9.78	9.78	7037.77	3.492	16.825		9.77	9.78	7123.77	2.439	9.608	
9.78	9.78	7037.78	3.492	16.850		9.78	9.78	7123.78	2.443	9.624	
9.79	9.79	7037.79 <b>7037.80</b>	3.497 <b>3.503</b>	16.850		9.79	9.79	7123.79	2.448	9.640	
9.81	9.81	7037.80	3.508	16.902		9.81	9.81	7123.80	2.458	9.656	
						9.81		7123.81			
9.82	9.82 9.83	7037.82 7037.83	3.514 3.519	16.927 16.953		9.82	9.82 9.83	7123.82	2.462 2.467	9.672 9.688	
9.83	9.83	7037.83	3.519	16.953		9.83	9.83	7123.83	2.467	9.688	
9.84 <b>9.85</b>	9.84 <b>9.85</b>	7037.84 7037.85	3.525 <b>3.530</b>	16.979 <b>17.005</b>		9.84 <b>9.85</b>	9.84 <b>9.85</b>	7123.84 <b>7123.85</b>	2.472 <b>2.477</b>	9.704 <b>9.720</b>	
					,						
9.86 9.87	9.86 9.87	7037.86	3.536 3.541	17.030		9.86 9.87	9.86 9.87	7123.86	2.481 2.486	9.736 9.752	
		7037.87		17.056				7123.87			
9.88	9.88	7037.88	3.547	17.082		9.88	9.88	7123.88	2.491	9.768	
9.89 <b>9.90</b>	9.89 <b>9.90</b>	7037.89	3.552 <b>3.558</b>	17.107 <b>17.133</b>		9.89 <b>9.90</b>	9.89	7123.89 <b>7123.90</b>	2.495 <b>2.500</b>	9.784	
		7037.90			,		9.90			9.800	
9.91	9.91	7037.91	3.563	17.159		9.91	9.91	7123.91	2.505	9.816	
9.92	9.92	7037.92	3.569	17.184		9.92	9.92	7123.92	2.510	9.832	
9.93	9.93	7037.93	3.574	17.210		9.93	9.93	7123.93	2.514	9.848	
9.94	9.94	7037.94	3.579	17.236		9.94	9.94	7123.94	2.519	9.864	
9.95	9.95	7037.95	3.585	17.262		9.95	9.95	7123.95	2.524	9.880	

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	
9.56	9.56	7123.56	2.339	9.256	
9.57	9.57	7123.57	2.344	9.272	
9.58	9.58	7123.58	2.349	9.288	
9.59	9.59	7123.59	2.354	9.304	
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	2.377	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	2.396	9.448	
9.69	9.69	7123.69	2.401	9.464	
9.70	9.70	7123.70	2.406	9.480	
9.71	9.71	7123.71	2.410	9.496	
9.72	9.72	7123.72	2.415	9.512	
9.73	9.73	7123.73	2.420	9.528	
9.74	9.74	7123.74	2.425	9.544	
9.75	9.75	7123.75	2.429	9.560	
9.76	9.76	7123.76	2.434	9.576	
9.77	9.77	7123.77	2.439	9.592	
9.78	9.78	7123.78	2.443	9.608	
9.79	9.79	7123.79	2.448	9.624	
9.80	9.80	7123.80	2.453	9.640	
9.81	9.81	7123.81	2.458	9.656	
9.82	9.82	7123.82	2.462	9.672	
9.83	9.83	7123.83	2.467	9.688	
9.84	9.84	7123.84	2.472	9.704	
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	
9.90	9.90	7123.90	2.500	9.800	
9.91	9.91	7123.91	2.505	9.816	
9.92	9.92	7123.92	2.510	9.832	
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	2.524	9.880	
9.96	9.96	7123.96	2.529	9.896	

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         7038.00         3.612         17.390           10.01         10.01         7038.01         3.617         17.426           10.02         10.02         7038.02         3.623         17.462           10.03         10.03         7038.03         3.628         17.498           10.04         10.03         7038.03         3.638         17.534           10.05         10.05         7038.05         3.638         17.571           10.06         10.06         7038.06         3.644         17.607           10.07         10.07         7038.07         3.649         17.643           10.08         10.08         7038.08         3.654         17.679           10.09         10.09         7038.09         3.660         17.715           10.10         10.10         7038.11         3.676         17.823           10.12         10.12         7038.12         3.676         17.823     <	
9.99         9.99         7037.99         3.607         17.364           10.00         10.00         7038.00         3.612         17.390           10.01         10.01         7038.01         3.617         17.426           10.02         10.02         7038.02         3.623         17.462           10.03         10.03         7038.03         3.628         17.498           10.04         10.04         7038.04         3.633         17.534           10.05         10.05         7038.05         3.638         17.571           10.06         10.06         7038.06         3.644         17.607           10.07         10.07         7038.07         3.649         17.643           10.08         10.08         7038.08         3.654         17.679           10.09         10.09         7038.09         3.660         17.715           10.10         10.10         7038.10         3.665         17.751           10.11         10.11         7038.11         3.670         17.787           10.12         10.12         7038.12         3.676         17.823           10.13         10.13         7038.13         3.681         17.859	
10.00         10.00         7038.00         3.612         17.390           10.01         10.01         7038.01         3.617         17.426           10.02         10.02         7038.02         3.623         17.462           10.03         10.03         7038.03         3.628         17.498           10.04         10.04         7038.04         3.633         17.534           10.05         10.05         7038.05         3.638         17.571           10.06         10.06         7038.06         3.644         17.607           10.07         10.07         7038.07         3.649         17.643           10.08         10.08         7038.08         3.654         17.679           10.09         10.09         7038.09         3.660         17.715           10.10         10.10         7038.10         3.665         17.751           10.11         10.11         7038.11         3.670         17.787           10.12         10.12         7038.12         3.676         17.823           10.13         10.13         7038.14         3.686         17.895	
10.01         10.01         7038.01         3.617         17.426           10.02         10.02         7038.02         3.623         17.462           10.03         10.03         7038.03         3.628         17.498           10.04         10.04         7038.04         3.633         17.534           10.05         10.05         7038.05         3.638         17.571           10.06         10.06         7038.06         3.644         17.607           10.07         10.07         7038.07         3.649         17.643           10.08         10.08         7038.08         3.654         17.679           10.09         10.09         7038.09         3.660         17.715           10.10         10.10         7038.10         3.665         17.751           10.11         10.11         7038.11         3.670         17.787           10.12         10.12         7038.12         3.676         17.823           10.13         10.13         7038.13         3.681         17.859           10.14         10.14         7038.14         3.686         17.895	
10.02         10.02         7038.02         3.623         17.462           10.03         10.03         7038.03         3.628         17.498           10.04         10.04         7038.04         3.633         17.534           10.05         10.05         7038.05         3.638         17.571           10.06         10.06         7038.06         3.644         17.607           10.07         10.07         7038.07         3.649         17.643           10.08         10.08         7038.08         3.654         17.679           10.09         10.09         7038.09         3.660         17.715           10.10         10.10         7038.10         3.665         17.751           10.11         10.11         7038.11         3.670         17.787           10.12         10.12         7038.12         3.676         17.823           10.13         10.13         7038.13         3.681         17.859           10.14         10.14         7038.14         3.686         17.895	
10.03         10.03         7038.03         3.628         17.498           10.04         10.04         7038.04         3.633         17.534           10.05         10.05         7038.05         3.638         17.571           10.06         10.06         7038.06         3.644         17.607           10.07         10.07         7038.07         3.649         17.643           10.08         10.08         7038.08         3.654         17.679           10.09         10.09         7038.09         3.660         17.715           10.10         10.10         7038.10         3.665         17.751           10.11         10.11         7038.11         3.670         17.787           10.12         10.12         7038.12         3.676         17.823           10.13         10.13         7038.13         3.681         17.859           10.14         10.14         7038.14         3.686         17.895	
10.04         10.04         7038.04         3.633         17.534           10.05         10.05         7038.05         3.638         17.571           10.06         10.06         7038.06         3.644         17.607           10.07         10.07         7038.07         3.649         17.643           10.08         10.08         7038.08         3.654         17.679           10.09         10.09         7038.09         3.660         17.715           10.10         10.10         7038.10         3.665         17.751           10.11         10.11         7038.11         3.670         17.787           10.12         10.12         7038.12         3.676         17.823           10.13         10.13         7038.13         3.681         17.859           10.14         10.14         7038.14         3.686         17.895	
10.05         10.05         7038.05         3.638         17.571           10.06         10.06         7038.06         3.644         17.607           10.07         10.07         7038.07         3.649         17.643           10.08         10.08         7038.08         3.654         17.679           10.09         10.09         7038.09         3.660         17.715           10.10         10.10         7038.10         3.665         17.751           10.11         10.11         7038.11         3.670         17.787           10.12         10.12         7038.12         3.676         17.823           10.13         10.13         7038.13         3.681         17.859           10.14         10.14         7038.14         3.686         17.895	
10.06         10.06         7038.06         3.644         17.607           10.07         10.07         7038.07         3.649         17.643           10.08         10.08         7038.08         3.654         17.679           10.09         10.09         7038.09         3.660         17.715           10.10         10.10         7038.10         3.665         17.751           10.11         10.11         7038.11         3.670         17.787           10.12         10.12         7038.12         3.676         17.823           10.13         10.13         7038.13         3.681         17.859           10.14         10.14         7038.14         3.686         17.895	
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10.09     10.09     7038.09     3.660     17.715       10.10     10.10     7038.10     3.665     17.751       10.11     10.11     7038.11     3.670     17.787       10.12     10.12     7038.12     3.676     17.823       10.13     10.13     7038.13     3.681     17.859       10.14     10.14     7038.14     3.686     17.895	
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10.11     10.11     7038.11     3.670     17.787       10.12     10.12     7038.12     3.676     17.823       10.13     10.13     7038.13     3.681     17.859       10.14     10.14     7038.14     3.686     17.895	
10.12     10.12     7038.12     3.676     17.823       10.13     10.13     7038.13     3.681     17.859       10.14     10.14     7038.14     3.686     17.895	
10.13     10.13     7038.13     3.681     17.859       10.14     10.14     7038.14     3.686     17.895	
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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	
10.31     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	
10.31     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	
10.31     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	
10.31     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	
10.31     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	
10.31     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	
10.31         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	
10.31     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	

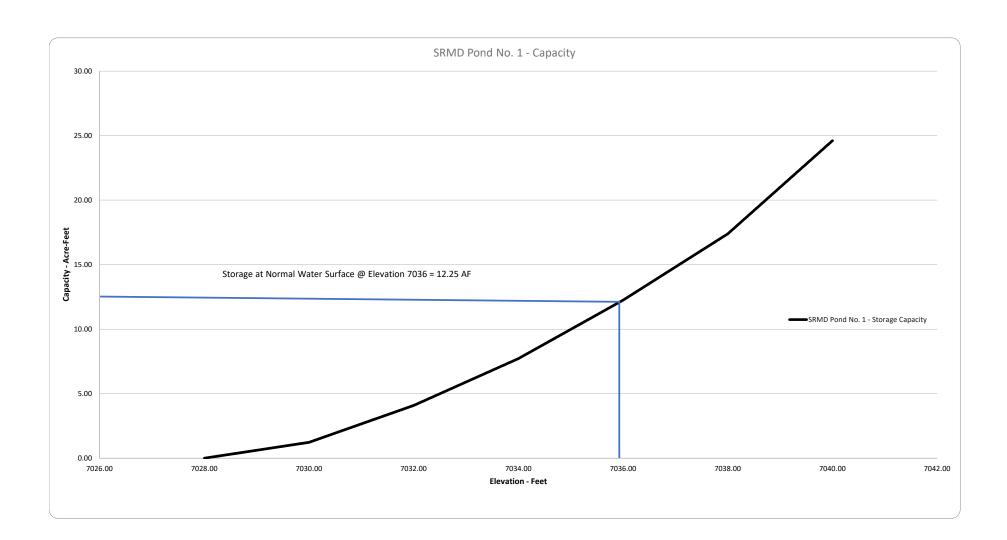
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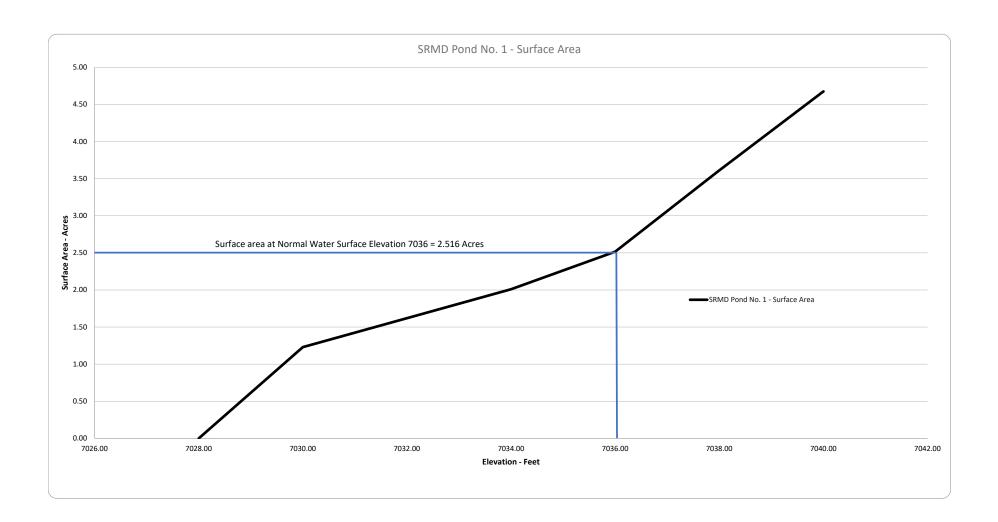
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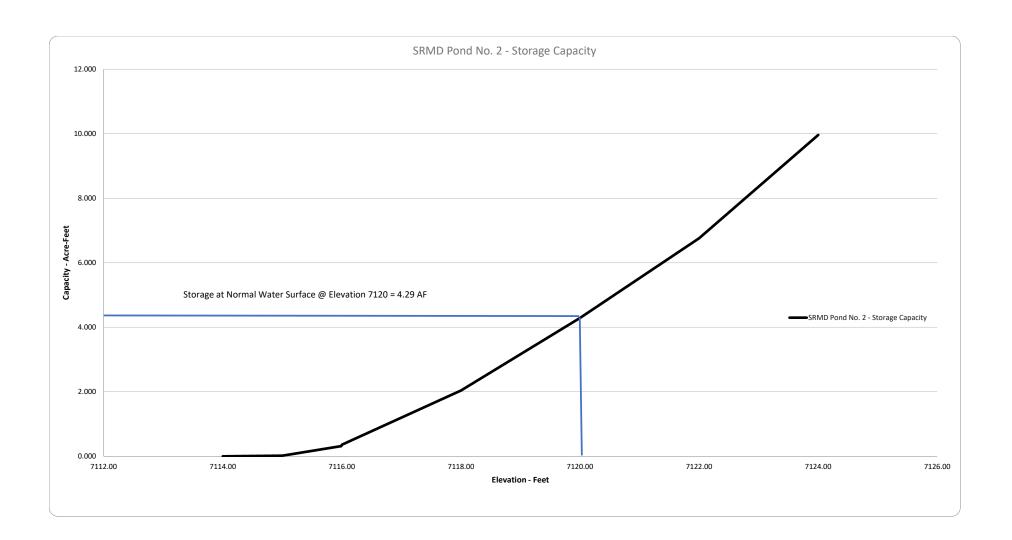
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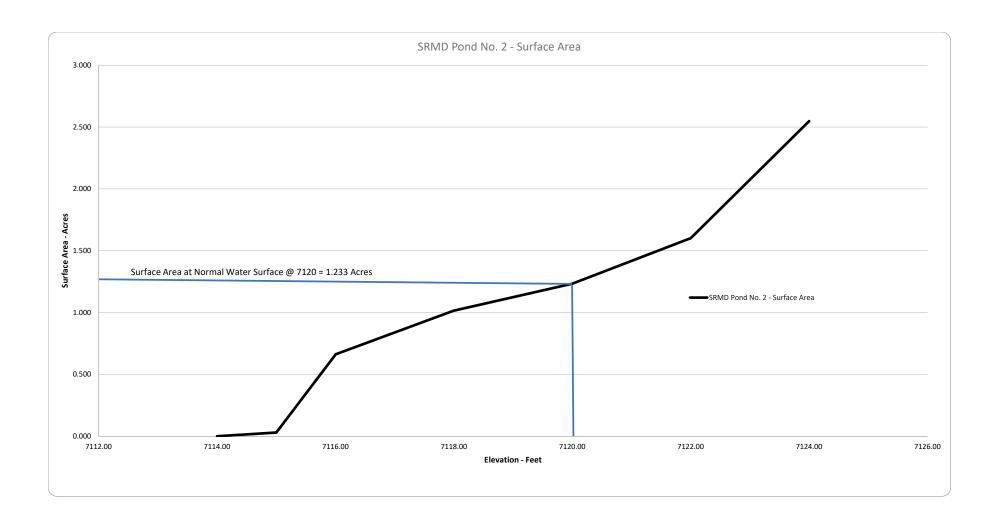
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11.91	11.91	7039.91	4.628	24.285	
11.92	11.92	7039.92	4.633	24.321	
11.93	11.93	7039.93	4.639	24.357	
11.94	11.94	7039.94	4.644	24.393	
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11.99	11.99	7039.99	4.671	24.574	









DISTRICT COURT, WATER DIVISION NO. 2, COLORADO

CONCERNING THE APPLICATION FOR WATER RIGHTS OF:

Case No. 91CW35

rived in the office of the \$20.3.0 102 Clerk, District Court Water

Colorado

RULING OF REFEREE

APR 9 1992

COLACO, LTD.,

Massage.

IN EL PASO COUNTY.

Clerk

Pursuant to Order of Referral filed and entered in the 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:
    - Dawson Aquifer: Colaco DA-1. (a)
    - Denver Aguifer: Colaco DN-1,
    - (c) Arapahoe Aquifer: Colaco KA-1.
    - (d) Laramie-Fox Hills Aquifer: Colaco LFH-1.
  - 5. Legal descriptions of locations of wells:
    - 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: SE1/4 NE1/4, 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:

Well Name	Estimate Top	d Depths Bottom	Pumpi CFS	ng Rate (GPM)	Annual Withdrawal <u>Acre Feet</u>
Colaco DA-1	43	324	0.67	300	34 🗸
Colaco DN-1	350	1,245	0.67	300	76.
Colaco KA-1	1,283	1,785	1.79	800	49~
Colaco LFH-1	2,054	2,334	0.67	300	36

### 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 Aquifer or from the Denver Aquifer. In the case of the Dawson aquifer such

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., E1 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:

Aquifer	No. of Acres	Saturated Materials (feet)	Specific Yield	Acre-Feet 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

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 aquifer 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-l Well and Colaco LFH-l 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

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 aguifer 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

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, (PRDERED 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. Fischer, 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 Referee
Water Division No. 2

Water Division No. State of Colorado

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

APR 9 1992

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Clerk

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CONCERNING THE APPLICATION FOR		Class
COLACO, LTD.	IN EL P	ASO County.
THE COURT FINDS That no Ruling of the Water Referee wir and that said Ruling should be  IT IS, THEREFORE, ORDERER Ruling of Referee entered on is incorporated herein by refer and adopted as the judgment of  Dated: May 5, 1992	thin the time provid confirmed, approved D, ADJUDGED AND DECR April 9, 1992 rence and is confirm this Court.	ed by law, and adopted. EEED That the be and led, approved

CATTLE CALL

DISTRICT COURT, WATER DIVISION NO. 2, STATE OF COLORADO

OCT 29 1986

Case No. 86-CW-18

Priscille Lyner

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

Clerk

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

- l. 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 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  $\bar{7}$ 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.

(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.
- 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 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 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. 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 acre-feet per year were that 581 available 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, 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 claimed herein until totally consumed free of 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

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 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. evidence presented shows that the Applicants intend appropriate the waters claimed herein, that such intent 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.

## 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) acrenontributary ground water per year is decreed and 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 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 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. 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 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 one-year 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 taken in accordance with the applicable promulgated by the State Engineer. In constructing 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 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.

Sherman and Howard (Salazar) 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.

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

OCT 29 1986

Principer Sylvers Clerk

### EXHIBIT A

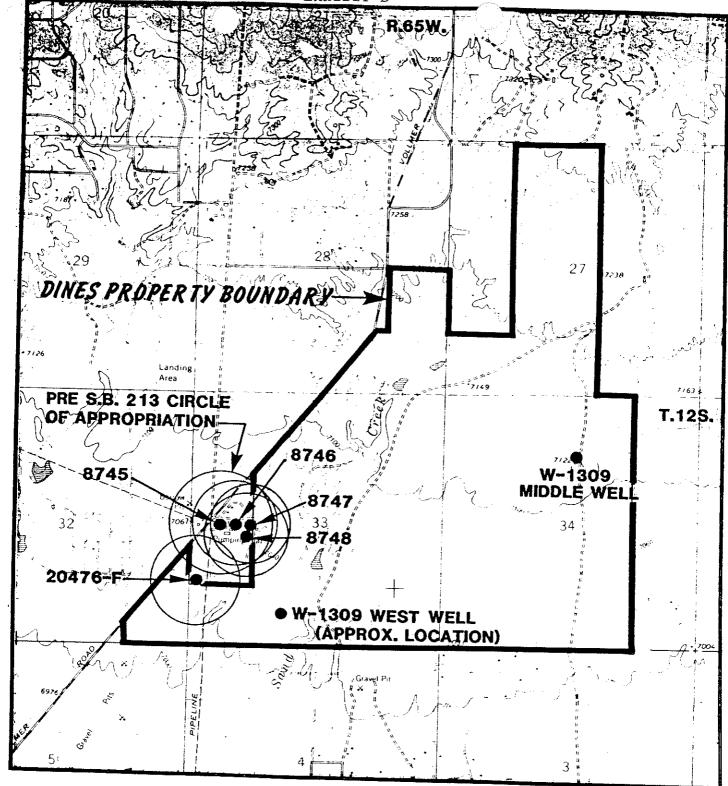
The Subject Lands consist of the following:

The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the 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, 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 E1 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 E1 Paso County, Colorado.

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

OCT 29 1986

Priseilled Lyners Clork



**SCALE 1:24000** 

# **LOCATION MAP**

FIGURE 1

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

OCT 29 1986 Prisciller Lyners Clork

field of timely court

DISTRICT COURT, WATER DIVISION NO. 1, COLORADO

Case No. 85CW445

38 NOV 9 P2: 08

RULING AND DECREE OF THE WATER COURT

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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. History of Case:

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:

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. <u>Upper Dawson Aquifer</u>

- (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 West 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.

(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.

## B. Denver Aquifer

- (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. Arapahoe Aquifer

- (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: NEI/4 SEI/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 11 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.

## 6. Well Permits:

- 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.
- 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:

Dawson Aquificant and Denver Basin Rules, the awson aquifer underlying Applicant values and the average annual amount available from the Upper Dawson aquifer are as follows:

Upper Dawson Aquifer

Sand

Sand

Sand

1844 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

Average Annual Amt. \_\_\_\_in Acre-Feet

1803

#### В. Nontributary Denver, Arapahoe, and Laramie-Fox Hills 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:

Aquifer	Acreage	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>	<u>Well Rate</u>	(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. Source of Ground Water; Limitations on Consumption; Replacement Obligations and Requirements:

- A. The ground water to be withdrawn from the Denver, Arapahoe, and Laramie-Fox Hills aquifers 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 aquifer 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

- 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 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. Replacement Obligation for Use of Not Nontributary Ground Water Rights:

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:

- 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

Raymond/S. Liesman

Water Keferee

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.

DATED:

December 12, 1988

Robert A. Behrman

Water Judge

Water Division No. 1

State of Colorado

THE WATER RIGHT FOR

HAS DEEN MODIFIED SER

PAGE 18 93 CW 2/0

APPROVED AS TO FORM AND CONTENT:

SAUNDERS, SNYDER, ROSS & DICKSON P.C.

Date: 15 Oct. 1987

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

Date: 10-15-87

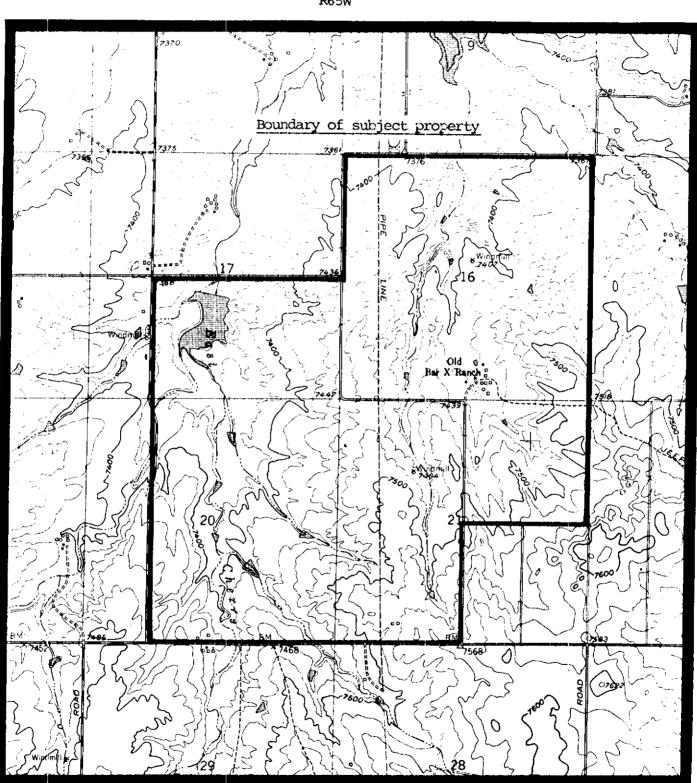
Gregory L. Johnson #448 Mark T. Pifher, #12629 104 S. Cascade Ave., Suite 204

P.O. Box 240

Colorado Springs, Colorado 80901-0240 (303) 632-3545

ATTORNEYS FOR OBJECTOR CITY OF COLORADO SPRINGS EXHIBIT A TO RULING AND DECREE CASE NO. 85CW445

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Clerk, District Control of tell Division No. 2, State of

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DISTRICT COURT, WATER DIVISION No. 2, COLORADO

Case No. 85CW131

MAY 18 1988

DECREE OF THE WATER COURT

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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. History of Case:

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 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:

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. Denver Aquifer

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:

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: NEI/4 NEI/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. Denver Aquifer

- (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 ll 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.

- (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 li 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 ll 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

(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. Well Permits:

- 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:

Aquifer	Acreage	Sand <u>Thickness</u>	Specific Yield	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 Basın 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:

Aquifer	Acreage	Sand <u>Thickness</u>	Specific Yield	Ave. Ann. Amt. in Acre-Feet
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. Final and Interim Average Annual Amounts of Withdrawal; and Allowed Amounts of Withdrawal Exceeding Average Annual Amounts:
- 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

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. Source of Ground Water; Limitations on Consumption; Replacement Obligations and Requirements:

- 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 will, 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

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. 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. 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 aquifer on the above-ground portion of the well casing or on the pumphouse.

### CONCLUSIONS OF LAW

- 13. 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 law. Section 37-90-137(4), C.R.S. The application for a decree 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 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.
- 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.

# 17. Replacement Obligation for Use of Not Nontributary Ground 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. Retained Jurisdiction:

- 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

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 May

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 Fc3. 1988

William B. Tourtillott, Jr., #184

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VRANESH AND RAISCH

Date: Jan 4, 1988

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ATTORNEYS FOR JVRC, INC.

Date.\_\_\_\_

By\_\_\_\_\_\_Barbara Hosmer,

Committee Member 11755 Timberland Court Colorado Springs, Colorado 80908 (303) 495-3948

REPRESENTATIVE OF BLACK FOREST LAND USE COMMITTEE

ANDERSON, JOHNSON, & GIANUNZIO

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ATTORNEYS FOR JVRC, INC.

Date:
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Date : 05-13-88

Barbara Hosmer,

Committee Member

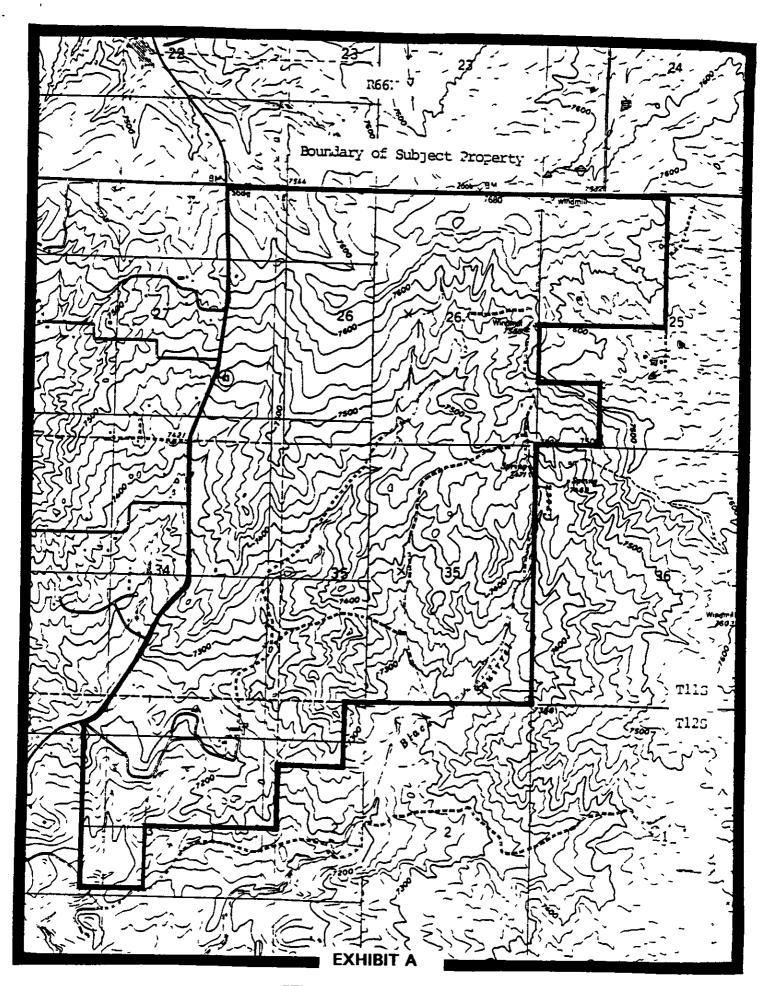
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REPRESENTATIVE OF BLACK FOREST LAND USE COMMITTEE

xc: Robert E. Schween
Michael D. Shimmin
Black Forest Land Use Committee, pro se
Gregory L. Johnson
Division Engineer
State Engineer



GENERAL LOCATION MAP

Colorado Department of Natural Resources golorado Divialon of 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 Status Unknown Help Last Refresh: 12/6/2016 12:03:01 AM Receipt: 3628088A Division: Permit #: 1689-BD -Water District: 1 Well Name / #: County: EL PASO Designated Basin: KIOWA-BIJOU **Management District:** Case Number: WDID: [-] Imaged Documents - Permit File **Date Imaged Annotated** Findings & Order for Determination 05/21/2009 [-] 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 Sixth 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 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: Cross Reference Permit(s): Permit Number 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 symmery 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

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# State of Colorado Water Resources - View Well Details: Receipt 3628088A Page 2 of 2

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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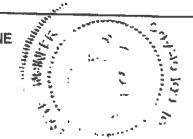
# COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

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 MCCUNE

AQUIFER: LARAMIE-FOX HILLS

DETERMINATION 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**

- 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:

Applicant: George F. McCune and Evelyn McCune

Aquifer: Laramie-Fox Hills Determination No.: 1689-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 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.
- 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.

Aquifer: Laramie-Fox Hills Determination No.: 1689-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 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.

Applicant: George F. McCune and Evelyn McCune

Aquifer: Laramie-Fox Hills Determination No.: 1689-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 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 25-12 day of June, 2008.

Dick Wolfe, P.E Executive Director

Colorado Ground Water Commission

Keith Vander Horst, P.E. 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

NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT
(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 <a href="mailto:square">900,52</a> acres in the County of <a href="mailto:El Paso">El Paso</a> 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, 6 <sup>th</sup> 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 Signature Date

Evelyn In McCune
Date

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 est Copy Available 1689-BD Page 2 of 2 QUITCEAIM DEED APR 1 7 2008 RAY C. McCUNE and GRETA C. McCUNE, as imband and wife, of the County of El Paso and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLOMBER good and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. McCLINE and EVELYN M. McCUNE, husband and wife, in joint tenancy, of the County of Elbett 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 Paro and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Shay-four; the West half of the West half of Section Nineteen, Township Eleven, Range Shay-four; the South half of the Southeast Quarter of Section Thirteen, Township Eleven, Range Shay-five; All of Section Twenty-four, Township Eleven, Range Shay-five; continuing in all Nine hundred and filty-time hundred its (900:52) acres, more or less, according to Government with all its appurtenances. Nο DATED and signed this 22 day of Nov. Consideration NOV 2 9 1976 STATE OF GOLORADO. COUNTY OF EL PASO ) The foregoing instrument was acknowledged before me this allow. 1976, by Ray C. McCurie and Genta Co McCurie.

COLORADO GROUND WATER COMMISSION DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 Sherman St, Room 818, Denver, CO 80203

RECEIVED

APR 1 7 2008

COLOR.

# 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	
The state of the s	
17480 Meridian Road, Elbert, CO 80106-8916 c/o Colorado Water Plans, P O Box 1855, Elbert, CO 80106	
Applicant relephone Number (include area code) 303 648 9000 Contact 303 646-4201	
2. AMOUNT OF OVERLYING LAND "- 475-2562	
2. AMOUNT OF OVERLYING LAND – the total and area claimed and described by the applicant in Item #8 below, consisting of 900.52 acres.	Hills NT
4. EXISTING WELLS Are there any wells located on the claimed and described overlying land?	
France of complete list of all wells located on the overhing land ergs as an alterior and a	ale and the st
5. AMNOAL AMOUNT OF GROUND WATER - 10 PAUL	
Mayinum allowable	g:
annual acre-feetacre-reet annually Maximum all	owable annual acre-feet, excluding secre-feet from that amount
6. USE OF GROUND WATER - description of interval - 1997	
All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the followindustrial, commercial, irrigation, augmentation, stock watering, magnetical methods and provided the following magnetic or the following magneti	DE Deseficial uses: domestic
square feet and wildlife. The water will be and he water legt recreational water reature ponds and pla	scatorial habitat less than 1000
uses, for replacement of depletion's from the use of water from other sources and for all other augmentati	d subsequent application to said on purposes
7. PLACE OF USE - of the ground water shall be seen if	
7. PLACE OF USE – of the ground water shall be considered to be that overlying land area claimed litem #8 below, unless a legal description or accurate scale map is provided which describes an att	
TO THE PROPERTY OF THE PROPERT	
Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying lan Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Connect St	d. For this resear, a Mantibuter.
Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Cladescription of the overlying land area subject to this determination, must be submitted as an attach	aim (form GWS-48), including a
The state of the second state of the state o	
SIGNATURE OF APPLICANT - must be original signature - The making of false statements he second degree, which is punishable as a class 1 misdements are applicable.	rein constitutes perjury in the
second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). herein, know the contents thereof, and state that they are true to my knowledge.	. I have read the statements
Signature Geral 7 Mc Cune	
Evelin m. mc Cum.	
- print name and title George F. McCune and Evelyn McCune, Owners	
	Trans Number: 3628088 X
FOR OFFICE USE ONLY	4 1772006 1:34:24 PM Geoff Davis (21)
	Trans Amt: \$240.00
DIVCOWD_ BASIN & MD	CHECK
	Check Amount: 5230.00

### George F. McCune and Evelyn McCune Subsurface Water Rights

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sw. /

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WATER RESOURCES STATE ENGINEER CCLO.

Post Copy Available

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7135236 7, 8200 1 7 7159144

THERE ARE NO WATER WELLS ON THE PROPERTY

**LOCATION MAP from CDSS** 

RECEIVED

APR 1 7 2008



STATE ENGINEERY COLOR

### **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.

Box: 1955 / Elizabeth / Colorado / 80107

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Colorado Water Plans LLC		
Craig L. Curl		
Dr. W. Jerry Koch		
Lisa S. Weinstein, Bsq. #35688	フ	
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#### **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 Hills

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, 6th PM,

S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6th PM.

#### **AQUIFER DATA**

AMOUNT AVAILABLE FOR APPROPRIATION:

(195 feet SS)(900.52 Acres)(0.15 SY) = 26340 AF

263.4 AFyr

ADJUSTMENTS:

None

ANNUAL AMOUNT:

263.4 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

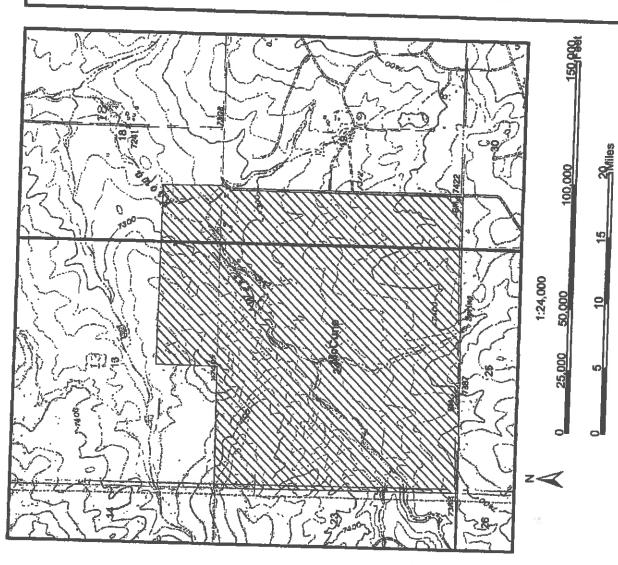
AQUIFER INTERVAL (CENTRAL DATA POINT):

2620 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 C66



# DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088A Applicant: George F. McCune and Evelyn McCune Basin: Kiowa-Bijou

GWMD:

Aquifer. Laramie-Fox Hills

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

Area claimed: 900.52 acres 897 acres measured Perimeter = 7,963 m

Legend

Township Section

2 jpm\_wark



## This area not Designated Gr Basin . 49 1:100,000 50,000 10 McCure 25,000 8 Ş

# DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088A
Applicant: George F. McCune
and Evelyn McCune
Basin: Kiowa-Bijou

GWMD:

Aquifer: Laramie-Fox Hills

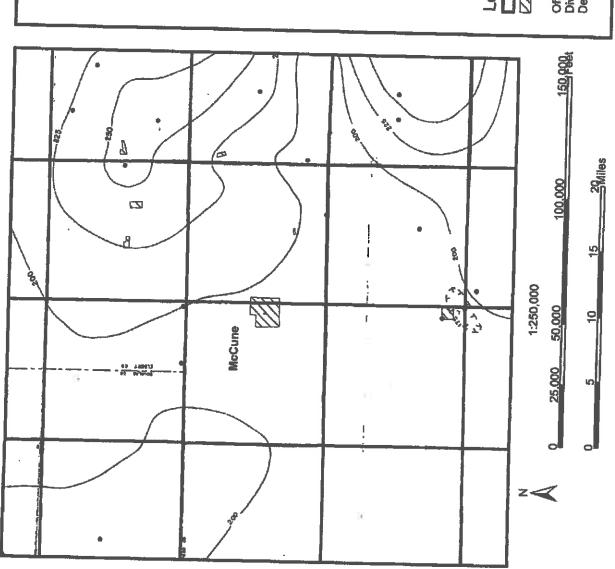
Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

Area claimed: 900.52 acres 897.22 acres measured. Perimeter = 7,963 m

Tributary Status NT

[2] Jpm\_work Township Legend





# DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088A Applicant: George F. McCune and Evelyn McCune Basin: Klowa-Bijou

GWMD:

Aquifer. Laramie-Fox Hills

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

Area claimed: 900.52 acres 897.22 acres measured Perimeter = 7,963 m

Saturated Sands

Legend

Township Jpm\_work





#### 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

Applications for Determinations of Water Right to Appropriate Ground Water from the RE: Laramie-Fox Hills, Arapahoe, Denver, and Dawson Aquifers Underlying a 900.52-Acre

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.

Justina Mickelson

Physical Science Researcher Scientist

Designated Basins Branch

Enclosures: a/s

cc: George and Evelyn McCune

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

#### 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 División 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 24, Township 11 South, Range 65 West of the 6th 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 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 acre-feet for the Arapahoe, 528.2 acre-feet for the Denver, and 819.5 for the Dawson subject to final staff evaluation. The estimated available annual acre-feet allocation amount for each aquifer 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 COUNTY OF ELBERT

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 mall 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 Advertisements," 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:

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 busiques in this office.

**Publisher** 

The above certificate of publication was subscribed and affirmed to before me, a Nolary Public, to-be the identical person described in the above certificate, on the

2008 Notary Public

My Notary Public Commission Expiration Date)

#### **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, 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 SEL/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th PM. The applicant claims ownership of fais land and control of the ground water in the above-described equifers under this property. The ground water allocations from these squifers 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

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 abovedescribed property to be as follows: 263.4 acrefeet for the Laramie-Fox Hills, 398.0 acre-feet for the Arapahoe, 528.2 acre-feet for the Denver, and 819.5 for the Dawson subject to final staff evaluation. The estimated available annual acre-feet allocation amount for each aquifer indicated above may be increased or decreased by ; the Commission to conform to the actual aquifer characteristics, based upon site specific data.

aquifer underlying the described property will be

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 notnontributary (actual impact replacement) for the Dawson.

Uzon 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.

First Publication May 8, 2008 Pinal Publication May 15, 2008 In Ranchland News Legal No. 12,936

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MAY 1 9 2008

WATER RESOURCES COLO.

#### PUBLISHER'S AFFIDAVIT

STATE OF COLORADO COUNTY OF ELBERT

I, Susan Lister, do solemnly affirm that I am the Publisher of RANCHLAND NEWS; hat the same is a weekly newspaper pubished at Simia, County of Elbert, State of Colorado, and has a general circulation herein; that said newspaper has been coninvously 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 Calhan, Colorado as second class mail matter and that said 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 Adverisements," with other Acts relating to the printng and publishing of legal notices and ad-'ertisements. That the annexed notice was sublished in the regular and entire issue of aid newspaper, once each week for 1400 uccessive weeks; that the first publication of aid notice was in the Issue of said newspaer dated:

2008

nd the last publication of said notice was in ie issue of said newspaper dated:

las 200 8

nd that copies of each number of said paper which said notice and/or list was published ere delivered by carriers or transmitted by rail to each of the subscribers of said newsaper, Ranchland News, according to the ocustomed mode of business in this office.

Publisher

The above certificate of publication was abscribed and affirmed to before me, a Nory Public, to be the identical person deribed in the above certificate, on the

Notary Public

ly Notary Public Commission Expiration Date)

#### **Determinations of Water**

Right BEFORE THE COLORADO GROUND WATER COMMISSION

KIOWA-BLIOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY TAKE NOTICE that purpusuit 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 Laramic-Fox Hills, Asapahoe, 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 \$1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th 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 aquifers will be used on the described property for the following beneficial uses: domestic, industrial, commercial, irrigation,

augmentation, stock watering, recreational water feature pends and piscatorial 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.

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 aquifors 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 abovedescribed property to be as follows: 263.4 acrefeet for the Laramie-Fox Hills, 398.0 acre-feet for the Arapahoe, 528.2 scre-feet for the Denver, and \$19.5 for the Dawson subject to final staff evaluation. The estimated available annual scre-feet allocation amount for each aquifer indicated above may be increased or decreased by the Commission to conform to the actual aquifer -characteristics, based upon site specific data.

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First Publication May 8, 2008 Final Publication May 15, 2008 In Ranchiand News Legal No. 12,936

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加 Colorado Ground Water Commission 1313 Sherman Street, Room 818 Denver CO 80203

Legal - 11.5 Picas McCune, legal 12,936 Legal - Rerun - 11.5 Picas McCune, legal 12,936 05/08/2008

Description

Date

43.97

Amount

Units 89.000 30.71

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05/15/2008

\*\*\*\*\*\*\* Total

74.68



#### DEPARTMENT OF NATURAL RESOURCES

JUN. 0 2 2008

#### 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

#### INVOICE

May 21, 2008

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.

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.

\$74.68

The following cost was incurred:

1. Actual cost of publication:

2. Additional fees: none

\$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,

**PAYABLE TO: DIVISION OF WATER RESOURCES** 

Justina P. Mickelson

Physical Science Researcher Scientist

**Designated Basins Branch** 

Trans Number: 3629687 6/2/2008 9:32:21 AM Debbie Gorzales (20) Total Trans Amt: \$231,58

CHECK

Check Number: 9784 Check Amount: \$231.58

Enclosures (a/s)



#### 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. 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,

Justina P. Mickelson

Physical Science Researcher Scientist

Gustino P. Micail

**Designated Basins Branch** 

Endosures: a/s

Colorado Department of Natural Resources

Colorado.gov | Contact Us

## ko actetata desieles

Colorado's Well Permit Search

THIC DACE TO NOT THE	E 4671141 DED.145				
THIS PAGE IS NOT THE The information contained on this p	<b>E ACTUAL PERMIT</b> page is a summary of the permit fi	le and may not reflect a	details of the well permit.	0 Disclaimer's	
Permit Issued: Comple					
Receipt: 3628088B	Division:	L _	Help Last Refresh: 12/6/20	16 12:U3:U1 AM	
Permit #: 1690-BD -	Water District:	1			
Well Name / #;	County:	EL PASO			
Designated Basin: KIOWA-BIJO Case Number:	OU Management District	:			
WDID;					
[-] Imaged Documents - Perm	ilt File				
Document Name	Date Imaged Annotated				
Findings & Order for Determination					
[-] Applicant/Contact					
Applicant/Contact Name	Mailing Addre	ss City/	State/Zip		
MCCUNE GEORGE F & EVELYN	17480 MERIDIAN RI	ELBER	, CO 80106-8916		
[-] Location Information					
Approved Well Location:					
Q40 Q160 Section 24	n Township Range PM 11.0S 65.0W Sixth	Footage from Section	n Lines		
Northing (UTM y):	4325550.5 Easting (UT)	(x): 533176.3			
Location Accuracy:	Spotted from quarters	A): 333170.3			
Subdivision Name					
Elline Plant Lat					
Filing Block Lot					
Parcel ID:	Acres in T	ract: 900.52			
[-] Permit Details					
	te Expires:				
Uses (See <u>Imaged Documents</u> for more infomation)  General Use(s): COMMERCIAL Aquifer(s): ARAPAHOE  DOMESTIC					
Special Use:					
Area which may be irrigated: Annual volume of appropriation:					
Statute:					
Cross Reference Permit(s): Perm	nit Number Receipt				
Comments: DETER ISSUED					
[-] Construction/Usage Details					
Well Construction Date: Well Plugged:	Pump Installation Da 1st Beneficial Use:	nte:			
Elevation Depth Perforated Cash		Bottom) Static Wate	Level Pump Rate		
[-] Application/Permit History					
Permit Issued 06/25/200	08	<u> </u>			
Application Received 04/17/200					
Disclaimer					
*The information contained on thi	s page is a summary of the pe	rmit file and may not	reflect all		
details of the well permit. THIS P					
This page should not be used as a the well, to determine construction	D information, or to determine	the terms and condi	ione undor		
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

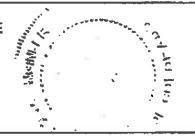
IN THE MATTER OF AN APPLICATION FOR DETERMINATION OF WATER RIGHT TO ALLOW THE WITHDRAWAL OF GROUND WATER IN THE KIOWA-BIJOU DESIGNATED GROUND WATER BASIN

APPLICANT: GEORGE F. MCCUNE AND EVELYN MCCUNE

AQUIFER: ARAPAHOE

1

DETERMINATION NO.: 1690-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 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:

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 by the applicant is 398 acre-feet.
- 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.

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

Aquifer: Arapahoe

Determination No.: 1690-BD

and the date of transfer.

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,

- 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.

Page 4

Aquifer: Arapahoe

Determination No.: 1690-BD

Page 5

Dated this 25th day of June 2008.

Dick Wolfe, P.E

**Executive Director** 

Colorado Ground Water Commission

Keith Vander Horst, P.E.

Water Resource Engineer

Prepared by: JPM

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

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APR 1 7 2008

WATER RESOURCES STATE ENGINEER COLO.

#### NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT

(We) George F. McCune and Eve	olyn McCune (Name(s))				
claim and say that I (we) am (are) the 900.52 acres in the County of EI Postate of Colorado:	ne owner(s) of	f the following described property consisting of			
(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, 6 <sup>th</sup> PM, El Paso County, 900.52 acres					
		Li raso county, soc.32 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. Mc Cun			
	Signature	Evelyn Mr. Mc Ceene 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** 1690-BD Page 2 of 2 Best Copy Available QUITCLAIM DEED APR 1 7 2008 RAY C. McCLINE and GRETA C. McCLINE, as husband and wife, of the County warm new of El Pisso and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLO MARIE COLO M grand and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. McCLINE and EVELYN M. McCLINE, husband and wife, in Joint senancy, of the County of Elbert and State of Colorado, a one-half interest in and to all minerals underlying the following described property, including all 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 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 Thisteen, Township Eleven, Range Shity-five; All of Section Twenty-four, Township Eleven, Range Shity-five, containing in all Nine hundred and (My-two hundredths (900:32) acres, more or less, according to Government No DATED and signed this 22 day of Nov. Consideration NOV 29 1976 STATE OF COLORADO ) COUNTY OF EL PASO ) The foregoing instrument was admowledged before me this 22 1976, by Ray C. McCush and Grate C. McCush.

COLORADO GROUND WATER COMMISSION DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 Sherman St. Room 818, Denver, CO 80203

RECEIVED

APPLICATION FOR DETERMINATION OF WATER RIGHT WITHIN A DESIGNATED GROUND WATER BASIN PURSUANT TO SECTION 37-90-107(7), C.R.S.

APR 1 7 2008

WATER REQUIRCES STATE ENGINEER COLO.

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.

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)	
202 648-9999 Contact 303 646-4201 719-495-2562	
AMOUNT OF OVERLYING LAND — the total and area 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? Ye	s No X
If yes, provide a complete list of all wells located on the overlying land area as an attachment to this ap	plication.
5. ANNUAL AMOUNT OF GROUND WATER — to be withdrawn, for intended beneficial uses, from the described land area claimed by the applicant in Item #8 below. Please specify one of the following:	ne aquifer underlying the
annual acre-feetacre-f	le annual acre-feet, excluding leet from that amount
6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be without	rawn from the aquifer
All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following be industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscator square feet and wildlife. The water will be produced for immediate application to said uses, for storage and sul uses, for replacement of depletion's from the use of water from other sources and for all other augmentation pu	ial habitat less than 1000 Sequent application to said repotes
7. PLACE OF USE – of the ground water shall be considered to be that overlying land area claimed and Item #8 below, unless a legal description or accurate scale map is provided which describes an alternal	e/additional place of use.
8. REQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall alloc Dawson, Deriver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. For Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim (description of the overlying land area subject to this determination, must be submitted as an attachment	or this reason, a Nontributary form GWS-48), including a 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 hat herein, know the contents thereof, and state that they are true to my knowledge.	ve read the statements
signature George 7 Mc Cine + Evelynan mc Cine Date april:	14,2008
- print name and title George F. McCune and Evelyn McCune, Owners	
	Trans Number: 3628088 /
FOR OFFICE USE ONLY	4/17/2006 1:34:24 PM Geoff Devis (21) Total Trans And: \$240.00 CHECK
DIV 8 CO WD BASIN MD	Check Number: (62724) Check Number: (62724)



APR 1 7 2008

SAMA LE CONCENTRATION CONTRATION CONTRATION

#### **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:	
By: Lang 7 mc Com + 7	Evelyn mr. Inc Que
Ву:	_
Date: 4-14-08	
Colorado Water Plans LLC	
Craig L. Curl	
Dr. W. Jerry Koch	
Lisa S. Weinsteln, Bsq. #35688	
By:	

P.O. Box 1955 / Elizabeth / Colorado / 80107 Office: 303/646-3895 Fax: 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:

Arapahoe

RECEIPT NO.

3628088B

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, 6th 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:

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

# 1:24,000 50,000 25,000

# DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088B

Applicant: George F. McCune and Evelyn McCune

Basin: Kiowa-Bijou GWMD:

Aquifer. Arapahoe

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W

Meridian: 6

Area claimed: 900.52 acres 897 acres measured Perimeter = 7,963 m

## Legend

☐ Township

Section | Section |



## This area not insid Designated Ground 0 100,000 15 1:100,000 50,000 9 McCune ÷ z<

# DIVISION OF WATER RESOURCES STATE OF COLORADO

Applicant: George F. McCune and Evelyn McCune Basin: Kiowa-Bijou Receipt Number: 3628088B

GWMD:

Aquifer: Arapahoe

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

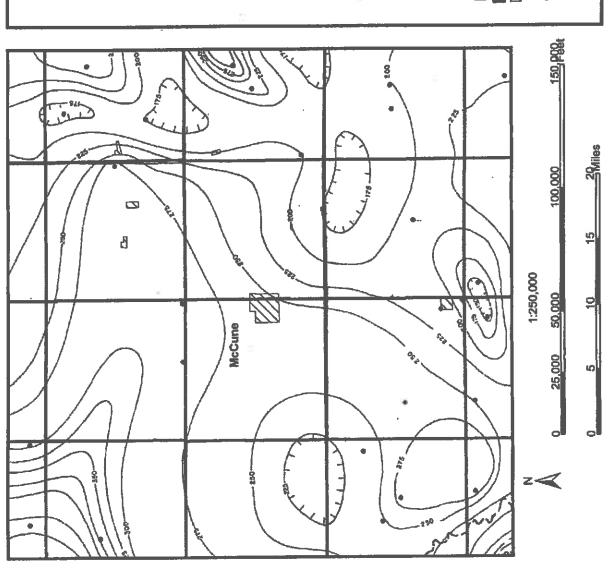
Area claimed: 900.52 acres 897.22 acres measured Perimeter = 7,963 m

Tributary Status NT

Legend

D jpm\_work Township





# DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088B
Applicant: George F. McCune
and Evelyn McCune
Basin: Kiowa-Bijou

Aquifer: Arapahoe

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W

Meridian: 6

Area claimed: 900.52 acres 897.22 acres measured Perimeter = 7,963 m

Saturated Sands

Legend

Township Township

Department of Natural Resources Office of the State Engineer Division of Water Resources



#### **PUBLISHER'S AFFIDAVIT**

COUNTY OF ELBERT

I, Susan Lister, do solemnly affirm that I m the Publisher of RANCHLAND NEWS; rat the same is a weekly newspaper pubshed at Simia, County of Elbert, State of clorado, and has a general circulation nereln; 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 mail matter and that aid newspaper is a newspaper within the reaning 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 ablished in the regular and entire issue of ald newspaper, once each week for 1400 accessive weeks; that the first publication of aid notice was in the Issue of said newspaar dated:

May 8, 2008

nd the last publication of said notice was in a issue of said newspaper dated:

May 15, 2008

nd 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 newsper, Ranchland News, according to the xusterned mode of busiquess in this office.

Susan Frotes
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

day of 2008
Notary Public

y Notary Public Commission Expiration Date)

#### Determinations of Water

Right
BEFORE THE COLORADO GROUND
WATER COMMISSION

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 Evelyn McCane (harviosther "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Lammie-Fox Hills, Ampahos, Denver, and Dawson aquifors underlying 900.52 sees 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, Range 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" PM. licent chiese dwienship of this land and control of the ground water in the above describ aquifers under this property. The ground water allocations from these aquifers will be used on the described property for the fallowing beneficial mes: domestic, industrial, commercial, irriga sugmentation, stock watering: recreational w sture peads and piscutorial habitat loss than 1000 square feet and wildlife, replacement and all other augmentation purposes. The testimum allowable amount 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 Bosin Rules, 2 CCR 410-1, the Colorado Ground Water Commission shall allocate ground water from the above-described. aquifus based on ownership of the overlying land and an aquifor 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 squifers underlying the abovedescribed property to be as follows: 263.4 acrofeet for the Larence-Fox Hills, 398.0 acre-feet for the Arapahoe, 528.2 acre-feet for the Denver. and 819.5 for the Detriton subject to final staff evaluation. The estimated available annual acro-feet allocation amount for each, aquifte 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 aquiferi underlying the above described property to be as follows: nontributary for the Laramie-Fox Hills, nontributary for the Arapaboe, nontributary for the Desver, and not-mountibutary (actual impact replacement) for the Device.

Davison.

Upon Commission approval of, these determinations of water right, well permits for wells to withdraw the allowed allocation from a specific aquifier 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 paralist for wells to withdraw ground water from the Davison aquifer would also be achieve 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 equifiers that are the subject of the objection. The objection must be accompanied by, a \$10 per aquifier for and must be received by the Commission Staff, Colorado (Ground Water Commission, \$18 Centennial Bullding, 1313 Sherman Street, Deuver, Colorado (\$0203, by June 16, 2008.

First Publication May 8, 2008
Final Publication May 15, 2008
in Ranchland News
Lagal No. 12,936

RECEIVED

MAY 1 9 2008

WATER PROJURCES



#### **DEPARTMENT OF NATURAL RESOURCES**

#### **DIVISION OF WATER RESOURCES**

June 27, 2008

Bill Ritter, Jr. Governor

Harris D. Sherman , Executive Director

Dick Wolfe, P.E.

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.

Justina P. Mickelson

Physical Science Researcher Scientist

Jutus P.Micso

**Designated Basins Branch** 

Enclosures: a/s

Colorado Department of Natural Resources

Colorado.gov | Contact Us

## to acteivid olegacied

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 biodismet) Last Refresh: 12/6/2016 12:03:01 AM Permit Issued; Completion Status Unknown Division: 3628088C 1 Water District: 1691-BD -Permit #: Well Name / #: County: EL PASO **Management District:** Designated Basin: KIOWA-BIJOU Case Number: [-] Imaged Documents - Permit File **Date Imaged Annotated Document Name** Findings & Order for Determination 05/21/2009 [-] Applicant/Contact City/State/Zip **Mailing Address Applicant/Contact Name** ELBERT, CO 80106-8916 17480 MERIDIAN RD MCCUNE GEORGE F & EVELYN [-] Location Information **Approved Well Location: Footage from Section Lines** Q40 Q160 Section Township Range PM 11.0S 65.0W Sixth Easting (UTM x): 533176.3 4325550.5 Northing (UTM y): Location Accuracy: Spotted from quarters **Subdivision Name** Filing Block Lot Acres in Tract: 900.52 Parcel ID: [-] Permit Details Date Issued: 06/25/2008 **Date Expires:** Uses (See Imaged Documents for more Infomation) Aquifer(s): DENVER General Use(s): COMMERCIAL DOMESTIC Special Use: Area which may be irrigated: Annual volume of appropriation: Cross Reference Permit(s): Permit Number Comments: DETER ISSUED [-] Construction/Usage Details **Pump Installation Date: Well Construction Date:** 1st Beneficial Use: Well Plugged: Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate [-] Application/Permit History 06/25/2008 Permit Issued 04/17/2008 Application Received

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

State of Colorado Water Resources - View Well Details: Receipt 3628088C Page 2 of 2

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 MCCUNE

AQUIFER: [

R: DENVER

**DETERMINATION 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**

- 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:

Aquifer: Denver

Determination No.: 1691-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 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.
- 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.

Page 2

Aquifer: Denver

Determination No.: 1691-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.

Page 3

- 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 aguifer.

#### 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.
- 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.

Aquifer: Denver

Determination No.: 1691-BD

Page 4

- 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.

Aquifer: Denver

Determination No.: 1691-BD

Page 5

Dated this . 25 12 day of June

Dick Wolfe, P.E

**Executive Director** 

Colorado Ground Water Commission

Keith Vander Horst, P.E.

Water Resource Engineer

Prepared by: JPM

92GWS 1 03/2005

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

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APR 1 7 2008

STATE COLONIES

#### 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 follow 900.52 acres in the County of El Paso State of Colorado:	ving described property consisting of		
(Insert the property legal description)			
SW/4SW/4 Section 18 and W/2 of the W/2 Section19			
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>Denver</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.			
Le la companya de la companya della companya della companya de la companya della	mogl 4 mc Cone  Jan m. mc Com		
Signature	Date		
Signature	yn Mr. Mr. Cum 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** 1691-BD Page 2 of 2 CUTTELAIM DEED BOOK COPY Available APR 1 7 2008 RAY C. McCUNE and GRETA C. McCUNE, as husband and wife, of the County

WAYER RESOURCES

Of El Paso and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLO good and valuable consideration, in hand paid, hereby sell and quit 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 ane-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 Pano and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Shiry-fair; the West half of the West half of Section Nineteen, Township Eleven, Range Shiry-fair; the South half of the Southeast Quarter of Section Thirteen, Township Eleven, Range Shiry-five; All of Section Twenty-fair, Township Eleven, Range Shiry-five, continuing in all Nine hundred and filty-time hundredths (900:52) acres, more or less, according to Government Serious. DATED and signed this 22 day of Nov. Consideration NOV 2 9 1928 STATE OF COLORADO. ) COUNTY OF EL PASO The foregoing instrument was admouledged before on this 22.

COLORADO GROUND WATER COMMISSION DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 Sherman St, Room 818, Denver, CO 80203

BECEIVED

APR 1 7 2008

WATER RESOURCES STATE ENGINEER COLO.

## 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.

The state of the s	po or print in piece line.	
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		
Appricant Telephone Number (include area cods)		
2. AMOUNT OF OVERLYING LAND - the total and area   3. AQUIFER Denver NT		
2. AMOUNT OF OVERLYING LAND - the total and area 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?	Yes No_X	
If yes, provide a complete list of all wells located on the overlying land area as an attachment to this	• •	
5. ANNUAL AMOUNT OF GROUND WATER — to be withdrawn, for intended beneficial uses, fro described land area claimed by the applicant in Item #8 below. Please specify one of the following:	m the aquifer underlying the	
annual acre-feet	wable annual acre-feet, excluding cre-feet from that amount	
6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be w	ithdrawn from the aquiter	
All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following	g beneficial uses: domestic,	
industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and pisc square feet and wildlife. The water will be produced for immediate application to said uses, for storage and	atorial habitat less than 1000	
uses, for replacement of depletion's from the use of water from other sources and for all other augmentation	n purposes	
7. PLACE OF USE — of the ground water shall be considered to be that overlying land area claimed item #8 below, unless a legal description or accurate scale map is provided which describes an alter	mate/additional place of use.	
8. REQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall a	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.		
	• • • • • • • • • • • • • • • • • • • •	
<ol> <li>SIGNATURE OF APPLICANT - must be original signature - The making of false statements her second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a).</li> </ol>	ein constitutes perjury in the	
herein, know the contents thereof, and state that they are true to my knowledge	i have read the statements	
Le ne 7 Ma Cumo		
Signature Sold Mr. M. O. Carry		
- print name and title George F. McCune and Evelyn McCune, Owners		
	7	
	4/17/2018 1/34/24 CV	
FOR OFFICE USE ONLY	Gooff Davis (24)	
	CHECK	
DIV_ 8 COWD_ / BASIN 2 MD	Check Number: 6524000	
	CHARLE WHOPUS (08576)00	

APR 1 7 200



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#### **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:	
By: Deng 7 Mc Come + En	elyn m, ma ame
By:	O
Date: 4-14-08	
Colorado Water Plans LLC	
Craig L. Curl	
Dr. W. Jerry Koch	
Lisa S. Weinsteiti, Psq. #35688	
Rv.	

P.O. Box 1955 / Elizabeth / Colorado / 80107 Office: 303/646-3895 Fax: 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:

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, 6th PM,

S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6th 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

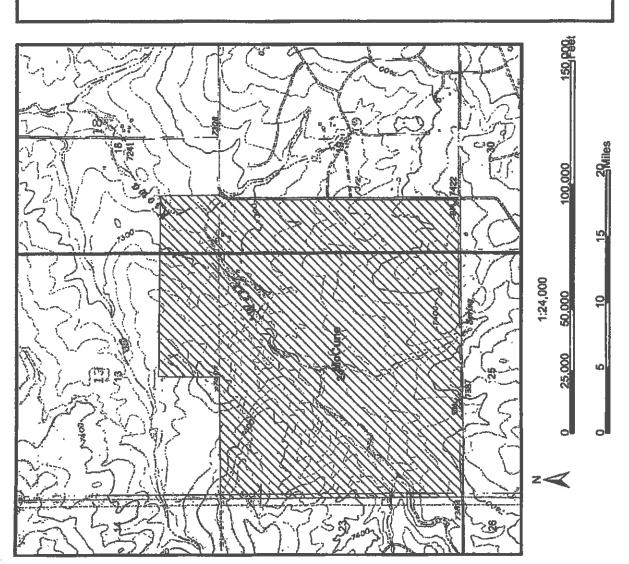
AQUIFER INTERVAL (CENTRAL DATA POINT):

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 C86



# DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088C
Applicant: George F. McCune
and Evelyn McCune
Basin: Kiowa-Bijou

Aquifer: Denver GWMD:

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

Area claimed: 900.52 acres 897 acres measured Perimeter = 7,963 m

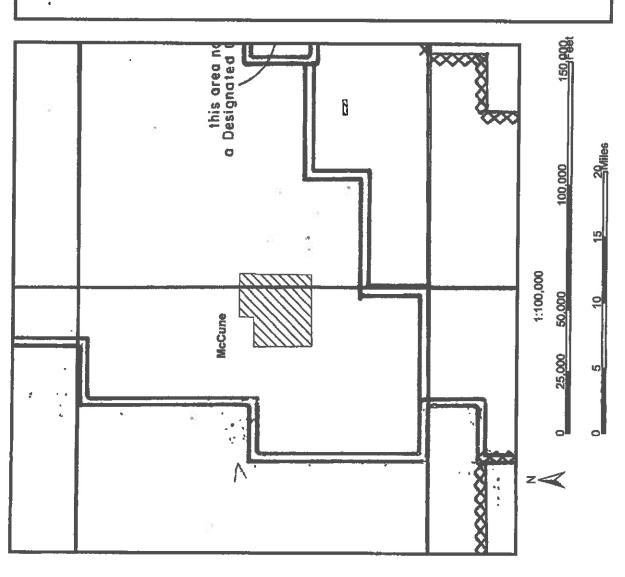
## Legend

Township Section

D jpm\_work

Office of the State Engineer Division of Water Resources Department of Natural Resources





# DIVISION OF WATER RESOURCES STATE OF COLORADO

Applicant: George F. McCune and Evelyn McCune Basin: Kiowa-Bijou Receipt Number: 3628088C

GWMD:

Aquifer: Denver

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

Area claimed: 900.52 acres 897.22 acres measured

Perimeter = 7,963 m

Tributary Status NT

Legend

[Z] jpm\_work ☐ Township

Department of Natural Resources Office of the State Engineer Division of Water Resources



## 150 PSQ1 32 8. 1:250,000 50,000 0 MCCUA 25,000 S 1000

# DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088C Applicant: George F. McCune and Evelyn McCune

Basin: Klowa-Bijou

GWMD:

Aquifer: Denver

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W

Meridian: 6

Area claimed: 900.52 acres

897.22 acres measured Perimeter = 7,963 m

Saturated Sands

Legend

[2] jpm\_work Township

Office of the State Engineer
Division of Water Resources
Department of Natural Resources



#### **PUBLISHER'S AFFIDAVIT**

COUNTY OF ELBERT

I, Susan Lister, do solemnly affirm that I m the Publisher of RANCHLAND NEWS: lat the same is a weekly newspaper pubshed at Simla, County of Elbert, State of clorado, and has a general circulation rerein; 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 ablished in the regular and entire issue of aid newspaper, once each week for two accessive weeks; that the first publication of aid notice was in the issue of said newspaer dated:

May 8, 2008

nd the last publication of said notice was in e issue of said, newspaper dated;

May 15 2008

nd that copies of each number of said paper which said notice and/or list was published ere delivered by carriers or transmitted by all to each of the subscribers of said newsper, Ranchland News, according to the sustepned mode of business in this office.

Susan Rister

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

day of 2008
Notary Public

y Notary Public Commission Expiration Date)

Determinations of Water Right

BEFORE THE COLORADO GROUND WATER COMMISSION

WATER COMMISSION
WATER BASIN- EL PASO COÚNTY,

TAKR NOTICE that purasent to Section 37-90-107(7), C.R.S., George F. McCume and Evelya McCume (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Lummie-Feat Hills, Arapalme, Denver, and Dawacii squifers miderlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the SW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th FM and the 51/2 of the SB1/4, Section 19 such all of Section 24, Township 11 South, Range 65 West of the 6th PM. The applicant chains ownership of this land and control of the ground water in the above described applican takes this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: decreated, industrial, commercial, irrigation, segmentation, stock watering, recreational water feature pendic and pisemerial labelet less than 1600 aquere foot and wildlife, replacement and all other augmentation purposes. The accrimentallocated.

In accordance with Section 37-90-107(7), C.R.s. and the Designated Busin Rules, 2 CCR 410-1, the Colorado Ground Water Conomission 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 periminary evaluation of the applications by the Commission Staff-finds the annual emount of water available, for allocation from each of the described aquifers underlying the above-described apoperty to be as follows: 263.4 acrafts: the Laramie-Fox Hills, 398.0 acraftes for the Arapahos, 528.2 acra-fact for the Denver, and 819.5 for the Denver, and 819.5 for the Denver subject to final staff variantics. The estimated available, annual acra-fact, allocation muonant for each squifer indicated above may be increased or decreased by the Commission to conform to the actual aquifer characteristics, based upon site apositio date.

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 gates for the above aquifers underlying the above-described property to be as follows: houterbutery for the Learnie-Pos Hills, nounflutery for the Aragaboe, nourisbutery for the Denver, and actandatibutary (actual impact replacement) for the Dawson.

Upon Commission approval of these determinations of water right, well permits for wells to wishdraw the allowed allocation from a specificaquifer shall be available upon application, subject to the conditions of the determination and the Designated Basin Ruise and subject to approval by the Commission. Such wells areas 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 astone 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, \$18 Centernial Building, 1313 Sheiman Street, Denver, Colorado 30203, by June 16, 2008.

First Publication May 8, 2008 Final Publication May 15, 2008 Final Publication May 15, 2008 In Ranchland News Legal No. 12,936 RECEIVED

MAY 1 9 2008

WATER COORDINACES



#### **DEPARTMENT OF NATURAL RESOURCES**

### **DIVISION OF WATER RESOURCES**

June 27, 2008

Bill Ritter, Jr. Governor

Harris D. Sherman Executive Director

Dick Wolfe, P.E.

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,

Justina P. Mickelson

Physical Science Researcher Scientist

Julio P.Midalo

**Designated Basins Branch** 

Enclosures: a/s

223100039 PGS 2 12/7/2023 8:53 AM \$18.00 DF \$0.00

Electronically Recorded Official Records El Paso County CO Steve Schleiker, Clerk and Recorder

### QUITCLAIM DEED (Water Rights)

WITNESS, that the Grantor, for and in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, has remised, released, sold, and conveyed and quitclaimed, and by these presents does remise, release, sell, convey and quitclaim unto the Grantee, its heirs and assigns forever, all of Grantor's right, title and interest, if any, in and to the following described water and water rights located in the County of El Paso, State of Colorado:

All Water and Water Rights associated with, quantified and described by the Water Court for Water Division No. 2 in Case No. 07CW56, all of which is more specifically described in that quitclaim deed recorded in the records of the El Paso County clerk and recorder at Reception No. 223045600; including, any and all of Grantor's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and further including any of Grantor's share of any additional groundwater that may be available from the foregoing Denver Basin aguifers attributable to the abovedescribed groundwater rights based on actual aquifer conditions. groundwater rights are subject to all terms and conditions of the above described decrees, as well as the retained jurisdiction of the Division 2 Water Court, and further includes all licenses, permits, certificates, contracts and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom, and further including any after-acquired interests in the above described water and water rights.

TOGETHER, with all the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, the reversions, remainders, rents, issues, and profits thereof, and all the estate, right, title, interest, claim, and demand whatsoever of the Grantor, either in law or equity, in and to the above bargained premises;

TO HAVE AND TO HOLD the rights to divert, apply, extract and use the water and groundwater rights above bargained and described, with the appurtenances, unto the Grantee and assigns forever.

(remainder of page intentionally blank, signatures follow)

IN WITNESS WHEREOF, the Grantor has forth above.	executed this Quitclaim Deed on the date set
Classic SRJ Land, LLC, a Colorado limited liability company By: Douglas Stimple, CEO of Manager	
STATE OF COLORADO )	
COUNTY OF EL PASO ) ss.	
The foregoing instrument was acknowledge 2023, by Douglas Stimple as the CEO of the Mar limited liability company.	ed before me this 17 <sup>44</sup> day of <u>beember</u> , nager of Classic SRJ Land, LLC, a Colorado
Witness my hand and official seal.	
My commission expires: 12.03.2028	Christine R. L. Lise
CHRISTINE L WISE  NOTARY PUBLIC  STATE OF COLORADO  NOTARY ID 19974021715  MY COMMISSION EXPIRES DECEMBER 02, 2025	Notary Public

224041438 6/3/2024 10:07 AM PGS 22 \$118.00 DF \$0.00

Electronically Recorded Official Records El Paso County CO Steve Schleiker, Clerk and Recorder

DISTRICT COURT, WATER DIVISION 2, COLORADO

Court Address: 501 North Elizabeth Street,

Suite 116

Pueblo, CO 81003

CONCERNING THE APPLICATION FOR WATER

RIGHTS OF:

FALCON AREA WATER AND WASTEWATER AUTHORITY

IN THE ARKANSAS RIVER OR ITS TRIBUTARIES IN EL PASO COUNTY

DATE FILED: May 30, 2024 3:36 PM CASE NUMBER: 2032CW3009

Case No.: 23CW3009

Previous case: 20CW3059

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

THIS MATTER comes before the Court on the Application filed by Falcon Area Water and Wastewater Authority, 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 Falcon Area Water and Wastewater Authority, whose address is 1700 Lincoln Street, Suite 2000, Denver, Colorado 80203 ("Applicant" or "FAWWA"). FAWWA is made up of multiple municipal or quasi-municipal entity members, including the Sterling Ranch Metropolitan District Nos. 1, 2, and 3 (collectively "SRMD"), and the Retreat Metropolitan District Nos. 1 and 2 (collectively "RMD"). SRMD, RMD, and other entities, have deeded or assigned to FAWWA decreed water rights to Denver Basin groundwater, surface water storage rights, and plans for augmentation. The Applicant seeks to amend the previously issued decrees to create a well field for the withdrawal of all decreed Denver Basin groundwater from both contiguous properties, and from non-contiguous properties so located as to allow for withdrawal of water from wells within the well field, from the same well(s), and to amend the plan for augmentation previously decreed in Case No. 20CW3059 to allow for the use of all such Denver Basin supplies therein, and the return flows resulting therefrom, without increasing pumping entitlements thereunder. FAWWA will comply with Rules 11.A. and 11.B of the Statewide Nontributary Ground Water Rules, as necessary to withdraw the total allowed annual amounts of water from both contiguous and non-contiguous parcels, as described herein.
- 2. The Applicant is the owner of, or controls, all Denver Basin groundwater described herein, and all land under which such Denver Basin groundwater is located is within Applicant's service area, where such water will be put to beneficial use.

- 3. The Applicant filed this Application with the Water Court for Water Division 2 on February 24, 2023. The Application was referred to the Water Referee Division 2 on February 24, 2023.
- 4. A Statement of Opposition was timely filed by the City of Colorado Springs, acting through its enterprise, Colorado Springs Utilities, on April 24, 2023, and a Statement of Opposition was timely filed by the Offices of the State Engineer and the Division Engineer for Water Division No. 2 on April 28, 2023.
- 5. On March 10, 2023, the Division 2 Water Court ordered that publication occur in El Paso County. The Clerk of this Court caused publication of the Application filed in this matter as provided by statute and the publication costs have been paid. On March 22, 2023, 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 April 11<sup>th</sup>, 2024, 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 April 16, 2024, the Division 2 Water Court approved such stipulation.
- 7. On April 11<sup>th</sup>, 2024, 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 April 16, 2024, the Division 2 Water Court approved such stipulation.
- 8. 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.
- 9. 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.

#### **FAWWA WELL FIELD**

10. The Applicant requested amendment of previously issued decrees quantifying Denver Basin groundwater supplies, as described below, based upon the contiguity of certain of such properties, and the proximity of the other of such properties, overlying such Denver Basin supplies, all such property being owned, controlled and/or

serviced by FAWWA, allowing all wells constructed upon such properties to be considered a well field, thereby permitting FAWWA to withdraw all such previously decreed Denver Basin groundwater rights from wells located upon other portions of the overlying lands. FAWWA further requested amendment of the plan for augmentation decreed in Case No. 20CW3059 to allow for all wells withdrawing any of the not-nontributary Denver Basin groundwater described herein to be considered augmented structures, and to allow the return flows from Denver Basin groundwater so pumped to be considered potential sources of augmentation supply. The following findings are made with respect to such requests:

- 11. <u>Sterling Ranch Metropolitan District Nos. 1, 2, and 3 Water Rights</u>. SRMD owns and controls Denver Basin groundwater supplies underlying approximately 1,451.44 acres of land acres located in Sections 27, 28, 32, 33, and 34 of Township 12 South, Range 65 West, and Section 4 of Township 13 South, Range 65 West, all in the 6th P.M., as more particularly described on the attached **Exhibit B**, and depicted on the attached **Exhibit A** map (collectively the "SRMD Properties"). Such decreed water rights include the following:
- A. <u>Case No. 86CW18</u>. This case was the original adjudication of the nontributary Arapahoe aquifer underling 1,410 acres of SRMD Properties, and decreed 575 annual acre feet (100-year allocation) of nontributary Arapahoe aquifer groundwater.
- B. <u>Case No. 86CW19</u>. This case was the original adjudication of the nontributary Laramie-Fox Hills aquifer underling 1,410 acres of SRMD Properties, and decreed 539 annual acre feet of nontributary Laramie-Fox Hills aquifer water.
- C. <u>Case No. 08CW113</u>. This case adjudicated the not-nontributary water supplies in the Dawson and Denver aquifers underlying the entire 1,451.44 acres of the SRMD Properties, as well as not-nontributary Arapahoe groundwater and nontributary Laramie-Fox Hills groundwater not previously adjudicated in Case Nos. 86CW18 and 86CW19, described above (underlying approximately 41.44 acres). The decree in 08CW113 quantified the following groundwater:

<u>Aquifer</u>	<u>Status</u>	100-year Quantity
Dawson	Not-Nontributary	392.5 acre feet
Denver	Not-Nontributary	728.9 acre feet
Arapahoe	Not-Nontributary	0.6 acre feet
Laramie-Fox Hills	Nontributary	0.4 acre feet

D. <u>Case No. 20CW3059</u>. This case adjudicated a plan for augmentation for the use of not-nontributary water supplies adjudicated in Case No.

08CW113, as described above, and further quantified not-nontributary and nontributary groundwater underlying the "SR Quarry Property" (a/k/a the Schmidt property), being approximately 97.54 acres as located in the S½ of Section 32, Township 12 South, Range 65 West, of the 6<sup>th</sup> P.M., more particularly described on the attached **Exhibit D** and depicted on the attached **Exhibit A** map. The SR Quarry Property, is not contiguous with the SRMD Properties or the RMD Properties because El Paso County owns Vollmer Road, which separates the SR Quarry Property from the other SRMD Properties and the RMD Properties. The quantities of water available underlying the SR Quarry Property in Case No. 20CW3059 are described as follows:

<u>Aquifer</u>	<u>Status</u>	100-year Quantity
Dawson Denver Arapahoe Laramie-Fox Hills	Not-Nontributary Not-Nontributary Not-Nontributary Nontributary	9.75 acre feet 45.56 acre feet 43.11 acre feet 27.8 acre feet
	•	

- 12. Retreat Metropolitan District Nos. 1 and 2 Water Rights (RMD). RMD owns and controls property located to the northwest and contiguous to the SRMD Properties, being approximately 191.79 acres located in Sections 27 and 28 of Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., more particularly described on the attached **Exhibit C**, and depicted on the attached **Exhibit A** map (collectively the "RMD Properties"). The corresponding water rights include the following:
- A. <u>Case No. 17CW3002</u>. This case adjudicated Denver basin groundwater supplies under multiple properties. A portion of these properties, and the water rights, are now owned and controlled by FAWWA. This includes a 191.79 acre portion of land, termed the "Arroya Parcel" including the following Denver Basin groundwater rights:

<u>Aquifer</u>	<u>Status</u>	100-year Quantity
Dawson	Not-Nontributary	116 acre feet
Denver	Not-Nontributary	119 acre feet
Arapahoe	Nontributary	98 acre feet
Laramie-Fox Hills	Nontributary	30.34 acre feet1

B. <u>Case No. 18CW3002</u>. This case adjudicated a plan for augmentation for a portion of the Denver Basin groundwater quantified in Case No.

As described in Paragraph 12.B., the amount of Laramie-Fox Hills groundwater available to FAWWA under this decree was reduced by 27.96 annual acre feet based upon the reservation of such water in the 18CW3002 plan for augmentation.

17CW3002, reserving 2,796 acre feet (27.96 annual acre feet, 100-year aquifer life) of Laramie-Fox Hills groundwater beneath RMD Properties. This reduced the water in the Laramie-Fox Hills aquifer water from Case No. 17CW3002, available to FAWWA, from 58.3 annual acre feet to 30.34 annual acre feet, based upon a 100-year aquifer life.

- 13. <u>Jaynes Property</u>. The Jaynes property is located directly to the west of SRMD Properties, being approximately 135 acres located in portions of the S½ and the NE¼ NW¼ of Section 28, and the NW¼ of Section 33, all in Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., more particularly described on the attached **Exhibit E**, and depicted on the attached **Exhibit A** map. The Jaynes Property is not contiguous with the SRMD Properties or the RMD Properties because El Paso County owns Vollmer Road, which separates the Jaynes Property from the SRMD Properties and the RMD Properties. FAWWA acquired the water rights underlying the Jaynes Property in 2023.
- A. <u>Case No. 07CW56</u>. This case adjudicated the groundwater supplies underneath the Jaynes Property as depicted on **Exhibit A**, as follows:

<u>Aquifer</u>	<u>Status</u>	100-year Quantity
Dawson Denver Arapahoe	Not-Nontributary Not-Nontributary Nontributary	34.9 acre feet <sup>2</sup> 69.2 acre feet 58 acre feet
Laramie-Fox Hills	Nontributary	33.8 acre feet <sup>2</sup>

14. Raygor Property. The Raygor Property is located to the east of the SRMD Properties, and contiguous thereto, being approximately 40 acres located in the SE¼ NE¼ Section 35, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., more particularly described on the attached **Exhibit F**, and depicted on the attached **Exhibit A** map.

A. <u>Case No. 91CW35</u>. This case adjudicated the water beneath Raygor's property as depicted on **Exhibit A**, and FAWWA now owns all of the water rights decreed therein, more particularly described as follows:

|--|

-

Twelve (12) annual acre feet of Dawson aquifer groundwater was reserved underlying the Jaynes Property in Case No. 07CW56. A 4.8-acre foot portion of such reserved groundwater is pending adjudication as part of an augmentation plan supporting the subdivision of a portion of the Jaynes Property into six (6) +/-2.5-acre lots, five (5) of which will be augmented in Division 2 Case No. 24CW3007, including the reservation of a 480 acre-foot portion of the nontributary Laramie-Fox Hills aquifer (4.8 acre feet annually) for replacement of post-pumping depletions. The figures in the table above reflect these uses and reservations of water.

Dawson	Not-Nontributary	34 acre feet
Denver	Not-Nontributary	76 acre feet
Arapahoe	Nontributary	49 acre feet
Laramie-Fox Hills	Nontributary	36 acre feet

15. The entirety of the SRMD Properties, RMD Properties, SR Quarry Property, Jaynes Property, and the Raygor Property are collectively referenced hereafter as the "FAWWA Well Field." FAWWA is hereby decreed the right to treat the above described properties as a "well field", as commonly understood and defined by the Statewide Nontributary Ground Water Rules, 2 CCR 402-7:14, and all of the Denver Basin groundwater supplies underlying said FAWWA Well Field may be withdrawn from wells to each respective aquifer located anywhere within the FAWWA Well Field, provided such withdrawals are consistent with Rules 11.A. (for contiguous properties) and 11.B. (for noncontiguous properties) of the Statewide Nontributary Ground Water Rules. The FAWWA Well Field is located in portions of Sections 27, 28, 32, 33, and 34 of Township 12 South, Range 65 West of the 6th Principal Meridian, as depicted on **Exhibit A** and more particularly described on **Exhibits B**, **C**, **D**, **E**, and **F**. The total amounts of groundwater available for withdrawal from the FAWWA Well Field, being the sum total of the various decrees described above (collectively the "Prior Decrees"), is as follows:

<u>Aquifer</u>	<u>Status</u>	100-year Quantity
Dawson Denver Arapahoe Arapahoe	Not-Nontributary Not-Nontributary Not-Nontributary Nontributary	587.15 acre feet 1,038.66 acre feet 43.71 acre feet 780.00 acre feet
Laramie-Fox Hills	Nontributary	660.04 acre feet

16. Existing and Future Wells. All wells will be located within the FAWWA Well Field. FAWWA currently owns and operates two permitted wells to nontributary Arapahoe and Laramie-Fox Hills formations, Permit Nos. 80131-F and 80132-F, respectively. FAWWA has two well applications to the Arapahoe (nontributary), and Laramie-Fox Hills (nontributary) aquifers in connection with Case No. 17CW3002 currently pending and under construction, Permit Nos. 88338-F, and 88339-F, respectively. FAWWA further has a well application to the not-nontributary Denver aquifer pending under Permit No. 330963, which when completed will be augmented under the augmentation plan decreed in Case No. 20CW3059, as hereby amended, and FAWWA may amend all such permits to include all Denver Basin groundwater rights described in Paragraph 15, above, consistent with the terms and conditions of this Decree, and consistent with Rules 11.A. and 11.B. of the Statewide Nontributary Ground Water Rules. Applicant is awarded the vested right to the use of such wells, along with any necessary additional or replacement wells associated with such structures, for the extraction and use of groundwater from the

not-nontributary Dawson, Denver and Arapahoe aquifers, and the nontributary Arapahoe and Laramie-Fox Hills aquifers pursuant to this decree, and pursuant to any applicable plans for augmentation necessary for the withdrawal of not-nontributary groundwater, including the amended Plan for Augmentation decreed herein.

- 17. Pursuant to C.R.S. §37-90-137(9)(c.5)(I), the augmentation requirements for wells in the not-nontributary Dawson aquifer requires the replacement to the affected stream systems of actual stream depletions, though Applicant does not through this decree seek an augmentation plan that would allow the pumping of the Dawson aquifer groundwater described herein. The ground water in the not-nontributary Denver aquifer, and the not-nontributary portions of the Arapahoe aquifer, underlying the FAWWA Well Field are located greater than 1 mile from any point of contact between a natural stream, and therefore require replacement to the affected stream system of four percent (4%) of the amount of the water withdrawn. 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), including as decreed herein as concerns the not-nontributary Denver and Arapahoe aquifers. Applicant shall not be permitted to withdraw not-nontributary supplies from nontributary locations, nor vice versa.
- 18. Subject to the augmentation requirements described in Paragraph 23 and the other requirements and limitations in this decree, and the 20CW3059 Decree, Applicant shall be entitled to withdraw all legally available groundwater in the Denver Basin aquifers underlying the FAWWA Well Field. 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, specifically including El Paso County land development code's 300-year requirements. The average annual amounts of ground water available for withdrawal from the underlying Denver Basin aquifers, based upon the 100-year aquifer life, are set forth above, or El Paso County's 300-year requirements, based upon the Prior Decrees.
- 19. Applicant shall be entitled to withdraw an amount of groundwater in excess of the average annual amounts decreed herein from the Denver Basin aquifers underlying the FAWWA Well Field, 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 issuance of the original well permit or the date of entry of the decree herein, whichever comes first, and the average annual volume of water which Applicant is entitled to withdraw from each of the aquifers underlying the FAWWA Well Field, 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 subject of this decree.

- Subject to the terms and conditions in the plan for augmentation decreed 20. 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 Denver Basin groundwater underlying the FAWWA Well Field for all beneficial municipal uses, including as decreed in Case No. 20CW3059, as amended hereby. Such municipal uses include, but are not limited to: domestic, commercial, industrial, recreation, fish propagation, stockwater, wetlands, wildlife habitat, and fire protection, 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 Applicant's municipal customers and is 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 properties which comprise the FAWWA Well Field 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 the amended plans for augmentation decreed herein. Such use will include reusable return flows from a first municipal use of such Denver Basin supplies from the FAWWA Well Field as a source of augmentation supply for replacement of depletions described in such plans for augmentation, to the extent such sewered return flows and/or Lawn Irrigation Return Flows ("LIRFs") are or may be available in proper time, location and amount.
- 21. Withdrawals of groundwater available from the nontributary Arapahoe or Laramie-Fox Hills aquifers from the FAWWA Well Field in the amounts 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.

#### AMENDMENT OF PLAN FOR AUGMENTATION

22. SRMD (now a member of Applicant) previously obtained a plan for augmentation in Case No. 20CW3059 providing for the augmentation of not-nontributary Denver and Arapahoe aquifer supplies underlying the SRMD Properties, along with quantification of LIRFs derived from municipal irrigation uses thereof as a source of augmentation supply, including of evaporative depletions from certain water storage structures located on the SRMD Properties. SRMD has assigned to FAWWA all its rights,

title and interest under the 20CW3059 Decree. By the application herein, FAWWA requested the inclusion of all not-nontributary Denver and Arapahoe aguifer groundwater underlying the FAWWA Well Field in the 20CW3059 Decree both as augmented water supplies from the augmented structures constituting the FAWWA Well Field, and as a source of augmentation supply in the form of LIRFs to the extent such water supplies are included and accounted for as a source of municipal irrigation supply on the SRMD Properties. FAWWA did not request, and this Decree does not approve, expansion or change to the volumetric pumping entitlements, nor the quantities of LIRFs decreed to be available under the 20CW3059 Decree, nor to otherwise amend said decree, but rather only to include the water associated with all decreed not-nontributary Denver and Arapahoe aguifer groundwater supplies underlying the FAWWA Well Field described herein as sources of supply within the 20CW3059 plan for augmentation, and any reusable return flows therefrom as sources of augmentation supply. All volumetric limitations described in the 20CW3059 decree remain of full force and effect, and the structures to be augmented by the 20CW3059 decree 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 FAWWA Well Field available to FAWWA, subject to existing volumetric limitations. Augmentation sources under the amended augmentation plan in 20CW3059 are LIRFs derived from municipal uses of such Denver and Arapahoe groundwater supplies, quantified and calculated in the same manner as originally decreed in 20CW3059.

- 23. Amended Augmentation Plan Case No. 20CW3059. Applicant is hereby decreed an amendment to the augmentation plan previously decreed in Case No. 20CW3059. The augmentation plan in Case No. 20CW3059 is hereby amended, and all wells located on the overlying land described herein are included as augmented structures, providing sources of physical supply from the not-nontributary Denver and Arapahoe groundwater sources from the FAWWA Well Field. The Case No. 20CW3059 augmentation plan is further amended to add a source of augmentation supply, being LIRFs resulting from the use of not-nontributary Denver and Arapahoe aquifer groundwater from the FAWWA Well Field, for irrigation of public parks and open space within the SRMD Properties, to be calculated in the same manner and quantities as described in the 20CW3059 Decree.
- 24. No other changes were requested to the 20CW3059 Decree, nor does this Decree approve any other changes, and Applicant is specifically limited to the volumetric pumping limitations described in the 20CW3059 Decree and further limited in the quantities of LIRFs which may be claimed, as calculated thereunder.
- 25. Applicant is hereby granted, pursuant to the terms and conditions of the amended augmentation plan decreed herein, the right to withdraw all quantities of not-nontributary Denver and Arapahoe aquifer groundwater underlying the FAWWA Well

Field, through existing, additional or replacement wells located within said FAWWA Well Field, consistent with Rule 11.A. and Rule 11.B. of the Statewide Nontributary Ground Water Rules.

#### **CONCLUSIONS OF LAW**

This Court concludes as a matter of law that:

- 26. All claims within the Application are contemplated and authorized by law, and this Court and the Water Referee have exclusive jurisdiction over these proceedings. §§37-92-302(1)(a) and (5), 37-92-203, and 37-92-305, C.R.S.
- 27. 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 FAWWA Well Field, and the right to use that water to the exclusion of all others subject to the terms of this decree.
- 28. The Applicant has complied with C.R.S. §37-90-137(4), and the nontributary Arapahoe and Laramie-Fox Hills groundwater underlying the FAWWA Well Field is legally available for Applicant's withdrawal, subject to terms and conditions of this decree and the Prior Decrees. Further, the not-nontributary Dawson, Denver, and Arapahoe aquifer groundwater underlying the FAWWA Well Field are 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.
- 29. 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.
- 30. The confirmation, determination and quantification of the nontributary and not-nontributary groundwater rights in the Denver Basin aquifers as set forth herein, and as previously decreed, is contemplated and authorized by law. C.R.S. §§37-90-137, and 37-92-302 through 37-92-305.
- 31. <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 uses and availability of the Denver Basin groundwater underlying the FAWWA Well Field, and the amended 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.

- 32. The amended 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.
- 33. 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 43, below.

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

- 34. 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.
- 35. The Application for Change of Water Rights and Amendment to Plan for Augmentation filed by the Applicant is approved, subject to the terms of this decree.
- 36. 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 withdrawn from the FAWWA Wellfield. Ninety eight percent (98%) of the nontributary groundwater withdrawn from the FAWWA Wellfield may therefore be consumed. No plan for augmentation is or shall be required to provide for such relinquishment.
- 37. The operation of the augmentation plan as decreed in Case No. 20CW3059 and amended 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 FAWWA Well Field, and evaporative depletions from the use and operation of the SRMD Ponds Nos. 1 and 2. Pumping from the FAWWA Wellfield is augmented during pumping through dedication of LIRFs and/or nontributary pumping as described in the 20CW3059 Decree, and augmented post-pumping through dedication and pumping of the nontributary Denver Basin groundwater rights previously reserved for such purposes in the 20CW3059 Decree<sup>3</sup>. The terms and

Case No. 23CW3009

In the 20CW3059 Decree, a total of 272.73 acre feet of nontributary groundwater supplies decreed

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Ruling of Referee and Decree

conditions of this decree, in combination with the 20CW3059 Decree, are adequate to assure that no injury to any water users will result from operation of this amended plan for augmentation. The Court approves this amended plan subject to the terms and conditions contained in this decree and the 20CW3059 Decree.

- 38. The replacement and augmentation supply that FAWWA will use for operation of the amended plan for augmentation decreed herein shall be of a quality and quantity so as to meet the requirements for which the water of senior appropriators has normally been used.
- 39. The State and Division Engineers and the Water Commissioner shall administer this amended augmentation plan in accordance with the terms and conditions contained in this decree, and the terms and conditions of the original 20CW3059 Decree which were not amended hereby. So long as water is used in conformance with the requirements of this decree, and the 20CW3059 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.
- 40. The State Engineer, the Division Engineer, and/or the Water Commissioner shall not curtail the diversion and use of water covered by the amended plan for augmentation decreed herein, so long as the LIRFs necessary for augmentation during the pumping life of the not-nontributary Denver and Arapahoe aguifers described herein continue to accrue to the stream system pursuant to the conditions contained herein. and/or Applicant pumps nontributary groundwater supplies directly to augmentation use, per the terms of the 20CW3059 Decree. 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, or nontributary supplies must be directly pumped to augmentation use in quantities sufficient to replace such 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.

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in Case Nos. 93CW18, 93CW19, and 85CW445, now owned and controlled by Applicant, were dedicated to replacement of post-pumping depletions. Such reservation remains applicable to pumping from the FAWWA Wellfield as described herein.

- 41. 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.
- 42. Accounting. FAWWA's accounting under this decree shall be consistent with the accounting required by the original 20CW3059 Decree, and with accounting required by the Prior Decrees, with such integrated accounting to provide consolidated augmentation accounting for water rights produced from the properties within the FAWWA Well Field. All accounting records required by this Decree shall be filed with the State Engineer and Division Engineer on a monthly basis, with actual measurement and accounting calculated on a daily basis. 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, 35 days advance written notice is provided to the objectors, and such changes are approved by the Division Engineer or the Water Commissioner. Copies of any revised forms shall be provided to objectors at no cost upon request. 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 Applicant's option.
- 43. Retained Jurisdiction. Pursuant to the provisions of C.R.S. §37-92-304(6), the amended plan for augmentation decreed herein shall be subject to the reconsideration of this Court on the guestion 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 Applicant's provision and service of written notice to Opposers herein that all parks and common areas anticipated to result in LIRF credits have been developed and constructed, and FAWWA 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 is required and retained jurisdiction for such purpose shall be perpetual.

- 44. Pursuant to C.R.S. §37-92-304(6), the Court shall retain continuing jurisdiction over the amended 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 depletions is less than the amount of water reserved in 20CW3059 Decree, as amended hereby, and other post-pumping matters. The Court's retained jurisdiction may be invoked using the process set forth in Paragraph 43.
- 45. 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 must 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 March 31<sup>st</sup> and October 31<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.
- 46. 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: April 25, 2024.

BY THE REFEREE:

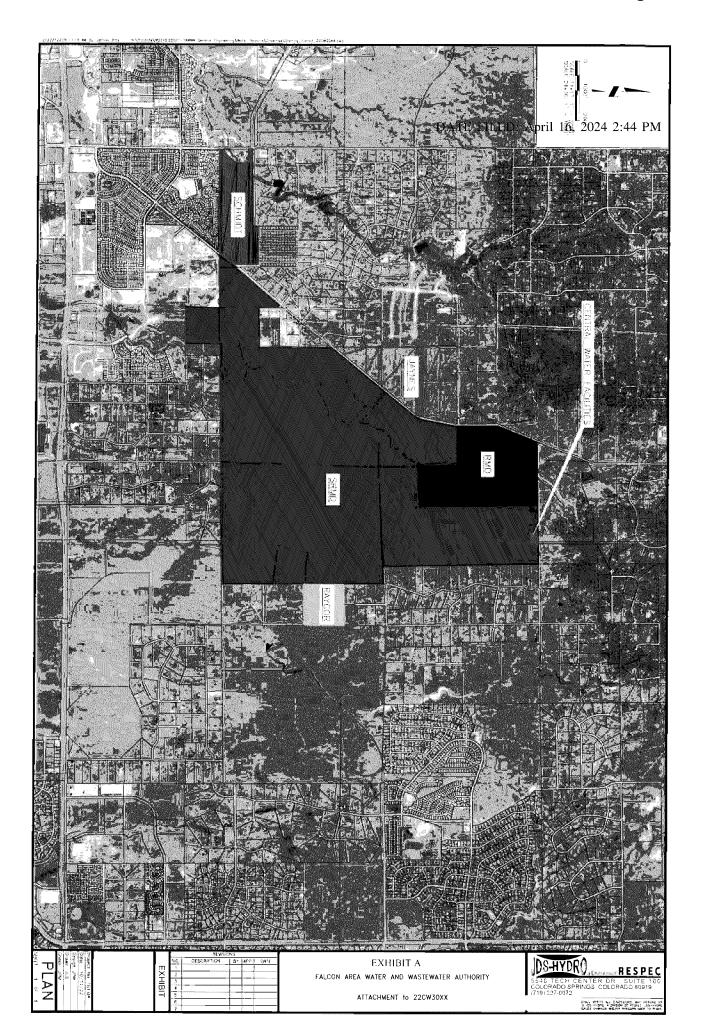
Kate Brewer, Water Referee Water Division 2

#### **DECREE**

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

Dated: May 30, 2024.

Monorable Gregory Styduhar Water Judge, Water Division 2 State of Colorado



#### EXHIBIT B – SRMD Legal Description

The W½ W½ E½ and the E½ W½ and the SW¼ SW¼ of Section 27; the E½ SE¼ and that portion of the SW¼ SE¼ lying South and East of the County Road across said premises, both in Section 28; that portion of the SE¼ SE¼ of Section 32 lying South and East of said County Road, that portion of the NE¼ SE¼ of said Section 32, lying South and East of said County Road, and that portion of the SE¼ SW¼ SE¼ of Section 32 beginning at the SE comer of the SE¼ SW¼ SE¼ then northerly along the east line of the SE¼ SW¼ SE¾ 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 E½ and the E½ SW¼ and the SW¼ SW¼ of Section 33, and all that part of the NW¼ of said Section 33 lying South and East of the said County Road across said premises, except that portion of the SW¼ NW¼ 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 W½ E½ and the W½ of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., and the NW¼ of the NW¼ of Section 4, Township 13 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado.

#### EXHIBIT C – Retreat Metro Districts Legal Description

A PORTION OF SECTION 21, 22, 27 AND 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, AND 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 STAMPED "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 QUARTER OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., SAID POINT ALSO BEING THE POINT OF BEGINNING:

THENCE S00°54'30"E ON THE EAST LINE OF THE WEST HALF OF THE WEST HALF OF SAID SECTION 27, A DISTANCE OF 3925.63 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 27;

THENCE S87°35'00"W ON THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE SOUTHWEST QUARTER, A DISTANCE OF 1332.78 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST QUARTER OF THE SOUTHWEST QUARTER;

THENCE N00°53'18"W ON THE WEST LINE OF SAID NORTHWEST QUARTER OF THE SOUTHWEST QUARTER, A DISTANCE OF 1316.78 FEET TO THE NORTHWEST CORNER OF SAID NORTHWEST QUARTER OF THE SOUTHWEST QUARTER;

THENCE S89"08'28"W ON THE SOUTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 28, A DISTANCE OF 1326.68 FEET TO THE SOUTHWEST CORNER OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER;

THENCE N00°30'49"W ON THE WEST LINE OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER, A DISTANCE OF 1270.77 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS RECORDED IN BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE N21°41'10"E ON 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 A DEED RECORDED IN BOOK 2678 AT PAGE 430 OF SAID COUNTY RECORDS;

THENCE ON THE SOUTHERLY, EASTERLY AND NORTHERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING FOUR COURSES:

1. N89°40'23"E, A DISTANCE OF 761.52 FEET TO A POINT ON THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 28;

- 2. N00°52'58"W ON SAID EAST LINE, A DISTANCE OF 30.00 FEET TO THE SOUTHEAST CORNER OF SAID SECTION 21;
- 3. N00°37'14"W ON THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 22, A DISTANCE OF 30.00 FEET;
- 4. 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 A DEED RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY RECORDS;

THENCE N21"41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 113.82 FEET; THENCE S68°18'50"E, A DISTANCE OF 145.93 FEET TO A POINT OF CURVE; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 560.00 FEET, A CENTRAL ANGLE OF 22°00'4T FOR A LENGTH OF 215.15 FEET TO A POINT OF TANGENT;

THENCE N89"40'23"E ON A LINE THAT IS 40.00 NORTHERLY OF AND PARALLEL WITH THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 21, A DISTANCE OF 348.92 FEET;

THENCE N88°38'56"E ON A LINE THAT IS 40.00 NORTHERLY OF AND PARALLEL WITH THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 22, A DISTANCE OF 477.80 FEET;

THENCE S47°35'42"W, A DISTANCE OF 60.90 FEET;

THENCE N88°38'56"E ON THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 22. A DISTANCE OF 898.51 FEET TO THE POINT OF BEGINNING.

CONTAINING A CALCULATED AREA OF 8,354,696 SQ. FEET, OR 191.797 ACRES.

#### EXHIBIT D – Schmidt Legal Description

A TRACT OF LAND IN THE SW' AND THE SW' OF THE SE' 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 ATPAGE 12; THENCE N89°3 I '30"E ALONG THE SOUTH LINE OF SAID HOLIDAY HILLS NO. 1, 1260.38 FEET; THENCE S00°33'58"E ALONG THE WESTERL y LINE OF GLIDER PORT ROAD, AS DEDICATED IN SAID HOLIDAY HILLS NO. 1, 741.29 FEET; THENCE S37°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.

#### EXHIBIT E – Jaynes Legal Description

That portion of E½ of the SW¼ and that portion of the W½ of the SE½ of Section 28 and that portion of the E½ of the NW¼ of Section 33, Township 12 South, Range 65 West of the  $6^{th}$  P.M., El Paso County, Colorado, laying Northwesterly of the existing county road (Vollmer Road), being more particularly described as follows:

Beginning at a point on the east-west centerline of said Section 28, said line also being thee south line of Poco Road as described in Book 2274 at page 314, said point also being the Center West 1/16 corner of said Section 28, from which the West Quarter corner of said Section 28 bears S.89°45'22"W (Bearings based on the line between the West Quarter corner of said Section 28, monumented with a 3½ inch aluminum cap marked with PLS No. 4842 and the northwest corner of Jaynes Subdivision, monumented with a No. 4 rebar and plastic cap marked with PLS No. 4842, said line bears N89°45'22"E), a distance of 1,310.67 feet; thence N89°45'22"E, along said east-west centerline, a distance of 717.48 feet, to the northwest corner of Lot 1, Jaynes Subdivision (as established on that plat of Jaynes Subdivision filed on December 20, 1984 in the El Paso County Clerk and Recorders Office at Reception No. 119494 in Plat Book X-3 at page 96); thence S00°14'39"E, along the west line of Lot 1, a distance of 544.41 feet, to the southwest corner of said Lot 1; thence N89°46'02"E along the south line of said Lot 1, a distance of 400.10 feet; thence S00°15'34"E, a distance of 598.01 feet; thence N"89°45'22"E, a distance of 1,217.67 feet to a point on the apparent northwesterly right-of-way line of Vollmer Road the following four (4) courses:

- 1. Along the arc of a non-tangential curve to the right, whose center bears N78°14'10"W, having a central angle of 27°06'29" and a radius of 603.83 fet, a distance of 285.69 feet;
- 2. Thence S38°51'49"W, a distance of 1,375.53 feet;
- 3. Thence S39°37'46"W, a distance of 376.52 feet;
- 4. Thence S41°07'37"W, a distance of 1,729.65 feet, to the intersection of said northwesterly right-of-way line and the west line of said E½ of the NW¼ of said Section 33;

Thence N00°25'04"E along said west line of the said E ½ NW ¼ of said Section 33, a distance of 1,440.99 feet; thence N00°14'40"E along the west line of the E ½ SW ¼ of said section 28, a distance of 2,611.39 feet, to the POINT OF BEGINNING.

#### EXHIBIT F - Raygor Legal Description

The Southeast Quarter of the Northeast Quarter of Section 34. Township 12 South Range 65 West of the 6th P.M., County of El Paso, State of Colorado, Except that portion thereof falling within Bow Valley Subdivision.

DISTRICT COURT, WATER DIVISION 2

Court Address: 501 N. Elizabeth Street, Suite 116

DATE FILED: February 13, 2024 10:26 AM Pueblo, CO 81003

FILING ID: F4C5B4148C480

CONCERNING THE APPLICATION FOR WATER

NUMBER: 2024CW3007

RIGHTS OF:

**FALCON AREA WATER AND WASTEWATER** AUTHORITY

▲ COURT USE ONLY ▲

IN EL PASO COUNTY Attorneys for Applicant:

Chris D. Cummins, #35154

W. James Tilton, #50213

Paul J. Raymond, #58692

Monson, Cummins, Shohet & Farr, LLC 13511 Northgate Estates Dr., Ste. 250

Colorado Springs, CO 80921 Phone Number: (719) 471-1212 E-mail: cdc@cowaterlaw.com

> wit@cowaterlaw.com pir@cowaterlaw.com

Case No: 24CW30

APPLICATION FOR DETERMINATION OF WATER RIGHTS, PLAN FOR AUGMENTATION, AND AMENDMENT TO PLANS FOR AUGMENTATION

#### Ι. NAME, ADDRESS AND TELEPHONE NUMBER OF APPLICANT

Falcon Area Water & Wastewater Authority c/o Spencer Fane, LLP 1700 Lincoln Street, Suite 2000 Denver. Colorado 80203 (303) 839-3845

#### Name, Address and Telephone Number of Applicant's Attorneys:

MONSON, CUMMINS, SHOHET & FARR, LLC Chris D. Cummins, #35154 W. James Tilton, #50213 Paul J. Raymond, #58692 13511 Northgate Estates Dr., Ste. 250 Colorado Springs, CO 80921 (719) 471-1212

#### II. SUMMARY OF APPLICATION.

The Falcon Area Water & Wastewater Authority ("Applicant", or "FAWWA") is a public corporation and political subdivision of the State of Colorado formed pursuant to Title 29, C.R.S. which provides water and wastewater services to its municipal and quasimunicipal members in northern El Paso County, Colorado. FAWWA's available water rights include water rights underlying the "Jaynes Property", upon which FAWWA will provide central municipal water and wastewater services, except as described in the augmentation plan requested herein. The bulk of the water rights underlying the Jaynes Property were previously quantified and adjudicated in Case No. 07CW56 (the "Jaynes Water Rights"), though that decree expressly excluded from such quantification 12 annual acre-feet of Dawson Aquifer ground water. FAWWA recently purchased the Jaynes Water Rights, including the to-date unadjudicated 12 acre feet of Dawson water supplies. This application seeks to quantify a 9 acre foot portion of the previously excluded 12 acre feet of Dawson groundwater underlying the Jaynes Property, and to adjudicate a plan for augmentation for the use of portions thereof in support of a subdivision of a portion of the Jaynes Property, Prairie Ridge Filing No. 1. The Jaynes Property is located in portions of the S½ and the NE¼ NW¼, of Section 28, and the NW¼ of Section 33, all in Township 12 South, Range 65 West of the 6th P.M., more particularly described and depicted on the attached **Exhibit A** map.

FAWWA is also the owner of unquantified Denver Basin ground water underlying the "Rhetoric Property", an approximately 30.64 acre parcel of land located in NE½ NE½, of Section 5, Township 13 South, Range 65 West of the 6th P.M., more particularly described and depicted on the attached **Exhibit B** map. FAWWA also seeks by this Application to quantify the Denver Basin groundwater underlying the Rhetoric Property, and to add such Denver Basin groundwater supplies to those supplies otherwise available to FAWWA for withdrawal from the FAWWA Wellfield, as pending adjudication in Case No. 23CW3009, pursuant to the augmentation plan decreed in Case No. 20CW3059, as pending amendment in Case No. 23CW3009, and as requested for further amendment herein. The Rhetoric Property is contiguous to land overlying the FAWWA Wellfield, as described in pending Case No. 23CW3009, and FAWWA seeks to add the Rhetoric Property to such FAWWA Wellfield for production of Denver Basin supplies consistent with the Statewide Nontributary Ground Water Rules, specifically Rules 11.A. and 11.B.

- III. <u>Determinations of Water rights</u>. The following water and water rights are sought for utilization by FAWWA and its successors or assigns, including through the FAWWA Wellfield described in Case No. 23CW3009.
- A. <u>Jaynes Property</u>. The Jaynes Property is an approximately 142 acre property located as described in Paragraph II., above, more particularly described and depicted on the attached **Exhibit A** map.
- a. <u>Case No. 07CW56 Reserved Dawson Aquifer Groundwater</u>. The decree in Case No. 07CW56 quantified and adjudicated all Denver Basin groundwater supplies underlying the Jaynes Property, excepting 12 annual acre feet from not-

nontributary Dawson aquifer. Applicant seeks to now quantify 9 annual acre feet of such previously excluded 12 acre-feet of Dawson aquifer groundwater, and further seeks approval of a plan for augmentation utilizing portions of the same, as described below. Applicant seeks the right to utilize such Dawson aquifer groundwater supplies on the basis of the 100-year aquifer life provided by Colorado Statute, or over the course of 300-years, demonstration of which is required by applicable El Paso County Land Development Code

- b. Existing Well. There is an existing well on the Jaynes property, Division of Water Resources Well Permit No. 285607, permitted as an exempt structure pursuant to C.R.S. §37-92-602(3)(b)(II)(A). FAWWA intends to maintain the exempt nature of Permit No. 285607 ("Prairie Ridge Well No. 6") consistent with C.R.S. §37-92-602(IV), for use on one of the six large lots to be developed as part of Prairie Ridge Filing No. 1, described herein, and as described above maintains the reservation of 3 annual acre feet of water (1 annual acre foot on a 300-year basis) previously described in Case No. 07CW56, for such purposes.
- B. Rhetoric Property. The Rhetoric Property is an approximately 30.64 acre parcel located as described in Paragraph II, above, more particularly described and depicted on the attached **Exhibit B** map. FAWWA seeks to quantify the Denver Basin groundwater underlying the Rhetoric Property, and additionally seeks to add such water as a source of additional supply for use in FAWWA's augmentation plan as decreed in Case No. 20CW3059, and as pending amendment in Case No. 23CW3009. Applicant's consultants have calculated the approximate amounts of Denver Basin groundwater available beneath the Rhetoric Property as follows:

Aquifer Status 100-year	
,	acre feet acre feet

C. <u>Summary</u>. FAWWA expressly seeks a decree quantifying the amount of Denver Basin groundwater beneath the Rhetoric Property in the amounts above for use throughout FAWWA's system, including as may be produced from the FAWWA Wellfield, as pending adjudication in Case No. 23CW3009, and pursuant to the augmentation previously decreed in Case No. 20CW3059, as amended. FAWWA further seeks a decree quantifying the 9 annual acre feet of Dawson Aquifer water previously excluded from the 07CW56 Decree, and approving an augmentation plan for use of portions of the same through individual wells on up to 5 lots within of the Prairie Ridge Filing No. 1, a subdivision of a portion of the Jaynes Property, described below.

### IV. <u>Application for Approval of Plan for Augmentation</u>.

- A. <u>Statement of Plan for Augmentation</u>: FAWWA seeks approval of a plan for augmentation to allow the use of Dawson aquifer groundwater underlying the Jaynes Property, as quantified herein. Such Dawson aquifer wells will, during the pumping life of such wells, be augmented by septic return flows through non-evaporative onsite septic systems, resulting from domestic uses, with post-pumping depletions being provided by FAWWA through dedication of nontributary groundwater supplies, as described herein.
- B. <u>Augmented Structures</u>. The structures to be augmented under this plan for augmentation are up to 5 residential wells to be located on up to 5 residential lots on a portion of the Jaynes Property (collectively the "Prairie Ridge Wells Nos. 1-5"). Each of these residential wells shall be constructed to the not-nontributary Dawson aquifer, with combined pumping not to exceed the 1.6 acre feet (on a 300-year basis), or 0.32 acre feet per well.
- C. <u>Augmentation Supplies</u>. During the anticipated 300-year pumping term of this augmentation plan, depletions resulting from the pumping of the Prairie Ridge Wells 1-5 will be replaced by septic return flows resulting from in-house uses of water by residents of the lots upon which such wells are constructed, following wastewater treatment through onsite septic systems. Post-pumping depletions will be replaced by dedication of the nontributary groundwater supplies described herein to such purposes.
- E. <u>Depletions</u>. FAWWA consultants have determined that maximum stream depletions over a 300-year period for the not-nontributary Dawson aquifer is 56% of pumping. Maximum annual depletions from the pumping of 1.6 acre feet annually are therefore 0.896 acre feet in year 300. Should pumping be less than 1.6 acre-feet annually, resulting depletions and required replacements will be correspondingly reduced.
- B. <u>Augmentation of Depletions During Pumping</u>. Depletions during pumping will be replaced by return flows from non-evaporative septic systems. The annual consumptive use for a non-evaporative septic system is 10% per year. Therefore, at conservatively estimated in-house use rates of 0.20 acre-feet per year, replacement amounts of 0.18 acre-feet accrue to the stream system annually from each well. With 5 wells this totals 0.9 acre feet annually, exceeding the maximum amount of annual depletions. Thus, during pumping, stream depletion replacement requirements will be met by dedication of septic return flows from the described five large-lot residences within the Prairie Ridge Filing No. 1 subdivision (excluding the 6<sup>th</sup> large lot continuing to utilize the exempt Prairie Ridge Well No. 6).
- C. <u>Augmentation of Post Pumping Depletions</u>. For the replacement of injurious post-pumping depletions which may be associated with the use of the Jaynes Wells, FAWWA reserves and dedicates a total of 480 acre feet (4.8 annual acre feet, 100-year allocation) of the nontributary Laramie-Fox Hills aquifer water underlying the Jaynes Property, as previously adjudicated in Case No. 07CW56. FAWWA reserves the right to

substitute other legally available augmentation sources for replacement of such postpumping depletions.

V. Amendment to Existing Plan for Augmentation. FAWWA seeks to further amend the plan for augmentation decreed in Case No. 20CW3059, and pending amendment in 23CW3009, to add the not-nontributary Arapahoe and Denver aquifer groundwater supplies beneath the Rhetoric Property, quantified by this application as additional sources of supply, including for production through the FAWWA Wellfield. FAWWA further seeks to add as sources of augmentation supply in Case No. 20CW3059, pending amendment in Case No. 23CW3009, all reusable return flows generated from the use of such water, specifically including lawn irrigation return flows. FAWWA further seeks to add the nontributary groundwater supplies in the Laramie-Fox Hills aquifer underlying the Rhetoric Property as a source of additional post-pumping replacement water in Case No. 20CW3059, allowing for increased production from the not-nontributary Denver and Arapahoe aquifers on the basis of such additional post-pumping supplies. By addition of these new supplies, FAWWA seeks a corresponding increase in the pumping available from the FAWWA Well Field, on the same terms and conditions previously decreed in Case No. 20CW3059.

### B. Remarks: Additional remarks are as follows:

- 1. The term of the augmentation plan is for 300 years as decreed in 20CW3059, and as pending amendment both herein and in Case No. 23CW3009. However, the length of the plan for a particular well or wells may be extended beyond such time provided the total plan pumping allocated thereto is not exceeded. Post-pumping stream depletions accrue to a particular well or wells only to the extent related to that well's actual pumping.
- 2. Before any wells are constructed, applications for well permits will be filed with the State Engineer's office, and well permits shall be granted in accordance with the decree pursuant to this application.
- 3. The Applicant requests a finding that vested water rights of others will not be materially injured by the withdrawals of ground water and the proposed plan for augmentation.
- 4. The wells shall be installed and metered as reasonably required by the State and Division Engineer. Each well must be equipped with a totalizing flow meter and Applicant shall submit diversion records to the Division Engineer on an annual basis or as otherwise requested by the Division Engineer. The Applicant shall also provide accountings to the Division Engineer and Water Commissioner as required by them to demonstrate compliance under the plan of augmentation, and all such accountings shall be integrated into other accountings required from Applicant pursuant to subsequently entered decrees so as to accurately account for all water uses by the District from various sources, and to ensure that all out-of-priority depletions associated therewith are adequately replaced in time, place and amount.

5. The Applicant intends to waive the 600 feet well spacing requirement for the wells to be located within the FAWWA Well Field, including as it now exists, or as it may exist in the future.

RESPECTFULLY SUBMITTED this 13th day of February, 2024.

MONSON, CUMMINS, SHOHET & FARR, LLC (Pursuant to C.R.C.P. 121, § 1-26(9), the signed original shall be kept on file at the offices of Monson, Cummins, Shohet & Farr, LLC)

Paul J. Raymond

Chris D. Cummins, #35154 W. James Tilton, #50213 Paul J. Raymond, #58692 13511 Northgate Estates Dr., Ste. 250 Colorado Springs, CO 80921 (719) 471-1212

### **VERIFICATION**

STATE OF COLORADO	)
	) ss.
COUNTY OF EL PASO	)
1 1 M	land and the state of the state of Coloreda that
	lare under penalty of perjury under the law of Colorado that
am an authorized represe	ntative of the Applicant, being the President of the Board o
Directors for the Falcon A	rea Water & Wastewater Authority, and that I have read the
foregoing and that all of th	ne statements contained therein are true and accurate to the
best of my knowledge and	information.
	A
Smut Mile	
James Morley, President	<del>//</del>
/	Augston Authority
Falcon Area Water & Wast	ewater Authority

Executed on the  $\underline{^{27th}}$  day of December, 2023, in the City of  $\underline{^{Colorado\ Springs}}$ , State of  $\underline{^{Colorado\ }}$ .

### APPENDIX D

### **WELL PERMITS**



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

	LIC

ΔP	PΙ	IC.A	TN

WELL PERMIT NUMBER 77785 -F DIV. 2 WD 10 DES. BASIN MD

**EL PASO COUNTY** 

MORLEY-BENTLEY INVESTMENTS LLC 20 BOULDER CRESCENT ST

NE 1/4 NW 1/4 Section 27 Township 12 S Range 65 W Sixth P.M.

UTM COORDINATES (Meters, Zone: 13, NAD83)

DISTANCES FROM SECTION LINES

324 Ft. from North Section Line 2632 Ft. from West

APPROVED WELL LOCATION

Section Line

(719) 491-3024

PERMIT TO CONSTRUCT A WELL

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.
- 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 2) 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. 86CW19 Division 2 Water Court. The operation of this well is 3) 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.
- The pumping rate of this well shall not exceed 150 GPM. 5)

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
- The entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules prior to 8) 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.
- A totalizing flow meter must be installed on this well and maintained in good working order. Permanent records of all diversions must be 10) maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- 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. 11)
- 12) This well shall be constructed not more than 200 feet from the location specified on this permit.
- 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 13) 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** 

Receipt No. 3662756

IDC

State Engineer

DATE ISSUED 12-19-2013 Du aui Cil

EXPIRATION DATE

12-19-2014

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

LIC

WELL!	PERMIT NUMBER	77786	<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

304 Ft. from North

Section Line Section Line

2632 Ft. from West

(719) 491-3024

PERMIT TO CONSTRUCT A WELL

20 BOULDER CRESCENT ST

COLORADO SPRINGS, CO 80903-

MORLEY-BENTLEY INVESTMENTS LLC

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.
- 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 2) 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 3) 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.
- 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.
- 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.
- 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 aguifer 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** 

Receipt No. 3662757

IDC

State Engineer

DATE ISSUED

12-19-2013

EXPIRATION DATE

12-19-2014

U COURCE

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

1148

WELL PER	MIT NUMBER	285607		
DIV. 2	WD 10	DES. BASIN	MD	

**APPLICANT** 

APPROVED WELL LOCATION

**EL PASO COUNTY** 

NW 1/4 SE 1/4 Section 28 Township 12 S Range 65 W Sixth P.M.

JOHN JAYNES **8225 POCO RD** COLORADO SPRINGS, CO 80908-

**DISTANCES FROM SECTION LINES** 

2564 Ft. from South Section Line 1786 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Northing:

Easting:

PERMIT TO CONSTRUCT A WELL

(719) 649-8584

### ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT **CONDITIONS OF APPROVAL**

- This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit 1) 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.
- 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 37-92-602(3)(b)(II)(A) as the only well on a tract of land of 35.12 acres described as that portion of the NW 1/4 of the SE 1/4, Sec. 28, Twp. 12 S, Rng. 65 W, Sixth P.M., El Paso County, more particularly described on the attached exhibit A.
- The use of ground water from this well is limited to fire protection, ordinary household purposes inside not more than three (3) single family dwellings, the watering of poultry, domestic animals and livestock on a farm or ranch and the irrigation of not more than one (1) acre of home gardens and lawns.
- The pumping rate of this well shall not exceed 15 GPM.
- The total depth of the well shall not exceed 460 feet, which corresponds to the base of the Dawson aguifer. At a minimum, plain casing shall be installed and grouted through all unconsolidated materials and shall extend a minimum of ten feet into the bedrock formation to prevent production from other zones.
- The annual withdrawal of ground water from this well shall not exceed 3 acre-feet.
- The return flow from the use of this well must be through an individual waste water disposal system of the non-evaporative type where the water is returned to the same stream system in which the well is located.
- This well shall be constructed not more than 200 feet from the location specified on this permit.

NOTE: This permit will expire on the expiration date unless the well is constructed by that date. A Well Construction and Test Report (GWS-31) must be submitted to the Division of Water Resources to verify the well has been constructed. An 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/pubs/forms.asp

NOTICE: This permit has been approved for an increase in the annual amount of ground water to be withdrawn to be consistant with the amount of water from the Dawson aquifer excluded in Division 2 Court Case 07CW56. You are hereby notified that you have the right to appeal the issuance of this permit, by filing a written request with this office within sixty (60) days of the date of issuance, pursuant to the State Administrative Procedures Act. (See Section 24-4-104 through 106. C.R.S.)

**APPROVED** 

Receipt No. 3649795

**SMJ** 

State Engineer

DATE ISSUED

05-04-2011

, ,	COLORADO DIVISION OF WATE	R RESOURCES	Office Use Only	town etc.	Form GWS-44 (07/2009)
	DEPARTMENT OF NATURAL RE		,	<b>网络龙洲</b> 科	
	1313 SHERMAN ST., RM 818, DE	NVER, CO 80203			
	phone – info: (303) 866-3587 main: ( fax: (303) 866-3589 http://www.wate	303) 800-330 i r state, co. us		4 6 0 A A	~~.
	RESIDENTIAL Note: Also u			APR 0 8	2011
					ĺ
	Water Well Permit Ap	pplication		WALER REGI	JUNCES
	Review form instructions prior to co The form must be completed in blace	empleting form.		STATE ENG COLO	) MACOR
		R Of Bide file of typed.	6. Use Of Well (chec	k applicable box	es)
	1. Applicant Information		See instructions to determi		
	1 2		☐ A. Ordinary household		
	John James		(no outside use)	reactifications	army oremany
	Mailing address	0.1	☑ B. Ordinary household	tuse in 1 to 3 single	-family dwellings:
	8225 Pac	o Rd	Number of dwellin		
	Colorado Source C	0908	₩ Home garden/la	wn inigation, not to	exceed one acre:
0.00.7/16		(optional)	area irrigated		
6498584	419648-8584 m	<u>uco250@msn.@m</u>	☑ Domestic anima	l watering - (non-co	mmercial)
	2. Type Of Application (check	x applicable boxes)	C. Livestock watering		" l
	Construct new well	Change source (aquifer)	7. Well Data (propose		, ,
	Replace existing well	Reapplication (expired permit) Rooftop precip. collection	Maximum pumping rate	-	int to be withdrawn
	Use existing well Change or increase use	Cither:	15	gpm	/ acre-feet
	3. Refer To (if applicable)		Total depth	Aquifer	N. v.
	Well permit #	Water Court case #	400	feet	MUSCI
			8. Water Supplier	and a second	
	Designated Basin Determination #	Well name or #	Is this parcel within bound:		ice area? ☐YES 💆 NO
	A Landin Of Days and Wa	If (Important) See Instructions)	If yes, provide name of sur		
	County	i (Important! See Instructions)	9. Type Of Sewage		
	Floaso	1/4 of the: 1/4	Septic tank / absorption	n leach field	
	Section Nors	Range E or W Principal Meridian	Central system: Distric	t name:	
	Distance of well from section lines (section lines at	65 DR SIXH	☐ Vault: Location sewage	e to be hauled to:	
	Distance of well from section lines (section lines at	e typically not properly intest	Other (attach copy of e	engineering design a	nd report)
	For replacement wells only - distance and direction		10. Proposed Well D	Driller License	(optional): //48
	feet	direction	11. Signature Of Ap	plicant(s) Or A	uthorized Agent
	Well location address (Include City, State, Zip)	Check If well address is same as in item 1.	The making of false staten		
	alex 0- 01		degree, which is punishab 24-4-104 (13)(a). I have n	te as a class 1 misd	emeanor pursuant to C.R.S.
	1 8400 HOUD RO	AND REPORTED THE PROPERTY OF T	thereof and state that they	are true to my know	dedge.
	Optional: GPS well location information in UTM fi Format must be UTM	ormat. GPS unit settings are as follows:	Sign here (Must be original signat	nte)	Date
	☐ Zone 12 or Zone 13	Easting: 528603	Land on	eines.	4-4-11
	Units must be Meters	112111018/	Prijnt name & title	1 -	17.7.
	Datum must be NAD83 Unit must be set to true north	Northing: 4014618	John Jac	1105	01121181
	Was GPS unit checked for above?	Remember to set Datum to NAD83	Office Use Only	un j	<u> </u>
	5. Parcel On Which Well Will	Be Located	USGS map name	DWR map	no. Surface elev.
	(YOU MUST ATTACH A CURRENT	DEED FOR THE SUBJECT PARCEL)	-		1200
	A. You must check and complete one	of the following:	Re	ceipt area only	
	Subdivision: Name	Filing/Unit	12.	at	
			3 acre b	سلام	
	County exemption (attach copy o				
	Name/#	Lot #			
		a subdivision, attach a deed with metes			
	h	I prior to June 1, 1972, and a current	1		
	deed  Mining claim (attach a copy of the deed	or survey): Name#	AOUAMAPX	l rane N	umber 3649795
	Mining claim (attach a copy of the deed  Square 40 acre parcel as describ		WE	4/8/2	011 12:53:48 PM
	Parcel of 35 or more acres (attach		\( \/ \)	Jen N	AcKinnev (24)
	Other (attach metes & bounds description		WR V /	otal Tra	ans Amt \$100.00
•	B. # of acres in parcel	C. Are you the owner of this parcel?	CWCB V	CHECK	be blevenium
	35.12	YES NO (if no - see instructions)	ТОРО	Chec	k Number: 1053 k Amount: \$100.00
}	D. Will this be the only well on this parcel?	(ES NO (if no - list other wells)	MYLAR		
		Onne	S85 (	DIV - WE !	<b>О</b> ВА MD
	E. State Parcel ID# (optional): 5d	し	J V		

Report Date: 5/4/2011

### **Bedrock Aquifer Evaluation Determination Tool**

### Denver Basin Aquifer - Specific Location Determination Tool

Applicant:

Jaynes

Receipt No:

3649795

Evaluated By:

SJ

Location:

NW 1/4 of SE 1/4 of Sec. 28, T.12S, R.65W. (2564 SSL, 1786 ESL)

Basin Designation:

Location is within the UNKNOWN Designated Ground Water Basin.

**Ground Surface Elevation:** 

7200 Feet

Number of Acres:

35.12

AQUIFER	ELEVA	TION (ft)	NET SAND	DEPTH TO (ft)		ANNUAL	STATUS
	Bot.	Тор		Bot.	Тор	APPROP. (A- F)	
Upper Dawson	6742	7141	200.0	458	59	14.05	NNT
Lower Dawson						<del></del>	
Denver	5799	6716	303.4	1401	484	18.11	NNT
Upper Arapahoe	5274	5758	253.2	1926	1442	15.12	NT
Lower Arapahoe							
Laramie-Fox Hills	4727	5007	190.0	2473	2193	10.01	NT

NOTE: 'E' indicates a location is at an aquifer boundary and the values may be more approximate.

**EXHIBIT A** 

### **Public Record Property Information**

Database Updated: 05/25/2010 Today: Thursday, April 21, 2011 Time: 2:52:23 PM

### **Personal Information**

Schedule No: 5228000025 Owner Name: JAYNES JOHN R Location: 8455 POCO RD

Mailing Address: 8225 POCO RD

COLORADO SPRINGS CO 80908-4727

### **Previous Parcel**

### **Replaced Parcel**

### **Legal Description**

THAT PT OF THE S2 SEC 28-12-65 DESC AS FOLS; COM AT CEN E 1/16 COR, TH S89<40'04"W ALG E-W CEN OF SD SEC 28 60.60 FT TO INTSEC THE S LN OF POCO RD W/THE W LN OF VOLLMER RD, SD PT BEING THE POB, TH S10<11'12"W 120.65 FT, S11<45'20"W 1045.96 FT, S89<40'04"W 1219.10FT, N00<15'34" W 1141.39 FT, TH N89<40'04"E 1458.72 FT TO POB

### **Market Information (2010Values)**

Levy Year: 2010 Mill Levy: 77.764 Exempt Status: Not Exempt

Table	Use Code	2010 Market Value	2010 Assessed Value	Exempt
Land	VACANT LAND = 35 AND < 100 ACR	\$165,487	\$47,990	
	Total Value	\$165,487	\$47,990	

### **Tax Entity and Levy Information**

( District: JCX )

Taxing Entity	Contact Name	Contact Phone
EL PASO COUNTY	COUNTY OFFICE BUILDING	(719) 520-6498
EPC ROAD & BRIDGE (UNSHARED)		(719) 520-6498
ACADEMY SCHOOL NO 20	TOM GREGORY	(719) 234-1200
PIKES PEAK LIBRARY	MIKE VARNET	(719) 531-6333
BLACK FOREST FIRE DISTRICT	FIRE CHIEF	(719) 495-4300
EL PASO COUNTY CONSERVATION	MADELINE NEWELL	(719) 473-7104

### Sale Information

Seq #	Sale Date	Sale Price	Sale Type
1	01/06/2011	\$0	-
2	12/22/2010	\$0	-

### **Land Information**

Seq #	Use	Exempt	Area
1	VACANT LAND = 35 AND < 100 ACR		35.12 acres

### **Residential Information**

### **Commercial Information**

PECENTEL

APR 08 2011

### **Public Record Property Information**

**Property Search** 

Parcel Map
Print Data
County Zoning

Map Sheet 52280.tif **Personal Information** 

Schedule No:

5228000025

Owner Name:

JAYNES JOHN R

Location:

8455 POCO RD

Mailing

8225 POCO RD

Address: COLORADO SPRINGS CO 80908

Assessor: Mark Lowderman

Location: 27 E. Vermijo Avenue 2nd Floor Colorado Springs, CO 80903-2208

Telephone: (719) 520-6600

Fax Number: (719) 520-6635

Hours: 8:00 AM - 5:00 PM Monday - Thursday Offices closed: Friday - Sunday, weekly

Send any concerns or comments to: asrweb@elpasoco.com

### **Legal Description**

THAT PT OF THE S2 SEC 28-12-65 DESC AS FOLS; COM AT CEN E 1/16 COR, TH S89<40'04"W ALG E-W CEN OF SD SEC 28 60.60 FT TO INTSEC THE S LN OF POCO RD W/THE W LN OF VOLLMER RD, SD PT BEING THE POB, TH S10<11'12"W 120.65

Plat No: 0

### Market Information (2010 Values)

Levy Year: 2010 Mill Levy: 77.764 Exempt Status: Not Exempt

Table	Use Code	2010 Market Value	2010 Assessed Value	Exempt
Land	VACANT LAND = 35 AND < 100 ACR	165487	47990	
	Total Value \$	165487	47990	

### Tax Entity and Levy Information Estimated Property Tax Information

( District: JCX )

Taxing Entity	Contact Name	Contact Phone
EL PASO COUNTY	COUNTY OFFICE BUILDING	(719) 520-6498
EPC ROAD & BRIDGE (UNSHARED)		(719) 520-6498
		(3.45)

		ELL CONSTI	RUCTION A	ND TEST	REPORT	For Office	Use Only
FORM NO. GWS-31	STATE OF COL	ORADO OFFI	CE OF THE S	TATE ENG	INEER		RECEIVED
04/2005	1313 Sherman St.	. Room 818, Den	ver, CO 80203	3			
0 112000	Phone – Info (303)	866-3587 Main	ı (303) 866-358	1			Adams on as
	Fax (303) 866-358			w.water.state.	co.us		MAY 3 1 2011
	RMIT NUMBER:	285	5607				
2. WELL OW	NER INFORMATION	1-4-					WATER RESOURCES
NAME OF	WELL OWNER:	John	Jayo	es_			STATE ENGINEERS
MAILING A	DDRESS X	125	poch.	DA			
		OLANC STATE			ZIP CODE: 81908		
CITY:	olomado Spr	) ( ) ( ia			Ell GODE OUTOU	1	
TELEPHON	NE NUMBER: 17 19	(B44 -	850 7 -	28	- (2 5)	150	F (57) \A/
3. WELL LOC	ATION AS DRILLED	2: <u>WW</u> 1/4, _	SE 1/4, S	ec. <del>сұ</del> д,	Twp N or ⊠	S, Range	E OF IXLVV
DISTANCE	S FROM SEC. LINE	s: 2564	ft. from 🗀	]Nor∭XSs	section line and 1784	o_ft.from ∠N_E or	W section line.
SUBDIVISI					, LOT, BLO	CKFILING(I	JNIT)
Optional G	PS Location: GPS	Unit must use t	the following s	settinas: Fo	mat must be UTM, Units	~ti	signation:
must be me	eters. Datum must b	e NAD83, Unit	must be set t	o true N,	Zone 12 or Zone 13	Easting:	
	DDRESS AT WELL	LOCATION	2455	Poro 6		Northing:	
STREETA	DURESS AT WELL	LOCATION.	0 1-1-0	1000	DOUGH AND METHOD	0	<b>C</b> (1
4. GROUND S	SURFACE ELEVATI	ON	feet		DRILLING METHOD		
DATE COM	APLETED 5-17	7-// TO	OTAL DEPTH	<u> </u>	feet DEPTH COM		
5. GEOLOGIC		-			6. HOLE DIAM (in.)	From (ft)	To (ft)
Depth	Туре	Grain Size	Color	Water Loc	9		41
Depui		0.0			62	41	48D
0-1	Topsoil	<u> </u>	<del> </del>				
100	sandro	K		ļ	7 DÍ AINI CACINO:		
152	gravel	Sandra	<u>cv</u>		7. PLAIN CASING:		(6) T- (4)
165		indrock			~ ~ 1		m (ft) To (ft)
206	gravel s	androck	K	<u> </u>	1 Steel	-198 +	<u> </u>
298	Osandro	ck		· · · · · · · · · · · · · · · · · · ·	45 PVC	200 DSI _T	3 300
324	grave!	and roo	tK		<u> </u>		
381	Osandro	ck					
480	aravel 5	7	k		PERFORATED CASIN	G: Screen Slot Size	(in): <del>/2</del> ''
100	()	(A) BO			14/2 NO.	200051 20	op 1480
				<u> </u>	100	Stepen -	
	<u></u>			<del> </del>			
		<del>                                     </del>		ļ	<del> </del>	<del></del> —	
						T	07115117
		ļ		<del> </del>	8. FILTER PACK:	9. PACKER PLA	CEMENT:
		<del> </del>			Material	_ Type _CU	bber
			<u> </u>	ļ	Size	-	
					Interval	Depth ス	00
					10. GROUTING RECOR	RD	i
		1			Material Amount	Density Interval	Placement
Remarks:					coment beack	5 36 aal 6-4	11 Doured
710.,,,,,,,						ر	
				<del></del>		,	
		11-71			Amt. Used 60	7	
11. DISINFEC		H I H	to ie eubmitte	d on Form N	lumber GWS 39 Supplem		
12. WELL TES	ST DATA: LI CITECA		ila is submitte	d on t onnt i	tumber Offo 05 Ouppion	ional von rost.	
TESTING ME	THOD $\underline{Q}$	rlitted				4.2	
Static Level	<u> 290</u> ft. Da	te/Time measu	red: <u>5</u> -	-17-11	, Production R	ate gpr	n.
		te/Time measu	red <del>5-</del>	-/7-//	, Test Length (	(hrs) 4	
Remarks:		·				·	
13. I have read	the statements made h	erein and know t	the contents the	ereof, and the	y are true to my knowledge.	This document is signe	d and certified in
accordance with	Rule 17.4 of the Wate	r Well Construction	on Rules, 2 CC	R 402-2. [The	e filing of a document that co	ntains false statements	is a violation of
		punishable by fir	nes up to \$5000	and/or revoc	ation of the contracting licen		Number
Company Nar	me: Linn	m 1)=	Miss	110	Phone: (7/9) (23, 3)	72/\ License	""174X
	<u>r ywy</u>	m Li	- H	<u>LLL</u>		<u> </u>	
Mailing Addre	ss: 2394	5 Luc	KY LAY	16	Lalhan C	D 80808	
Signature:	1 1		/ Print Na	me and Title			Date 2/(-1/
	Im 1 Un	red		11m +	sturau, man	ager	5-24-11
				•		j	

FORM NO. GWS-32

### PUMP INSTALLATION AND TEST REPORT STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St. Room 818, Denver, CO. 80203

For Office Use Only RECEIVED

08/2008	Info (303) 866-358° Fax (303) 866-3589	7 Main (303) 866-3581 http://www.water.state.co.us	early in it with
1. WELL PERMI	T NUMBER: 285 (0	707	MAY 3 1 2011
2. WELL OWNE NAME OF OW MAILING ADD	CONN C	aynes	NATER RESOURCES STATE ENGINEER COLO
CITY	SUBS POC		<u></u>
719 449	- 8584		
li e			N or ⊠S, Range 105 □ E or ⊠0W
DISTANCES F	FROM SEC. LINES: <u>8564</u>	ft. from 🔲 N or 🔀 S section line an	d <u>1786</u> ft. from ⊠E or □ W section line.
		LOT_	
must be met	ers, Datum must be NAD83, t	use the following settings: Format m Unit must be set to <b>true N</b> ,  Zone	nust be UTM, Units Easting: <u>538603</u> 12 or ⊠ Zone 13 Northing: <u>4314218</u>
[	SS AT WELL LOCATION:		2-102-10011
4. PUMP DATA:	Type: Submersible		Date Installed: 5/03, 2011
			7JV1554-3W230
1 ~ ~	·	P Volts <u>230</u> F	_
Pump Intake D	epth: 440 Feet, Drop/Colum	n Pipe Size Inches, Kind of Dro	p Pipe PVC
ADDITIONAL	INFORMATION FOR PUMPS GF	REATER THAN 50 GPM: Turbine Drive	Type:   Electric   Engine   Other
Design	Head feet	Number of Stages	Shaft size inches
1	d ☐ Yes 🔀 No, Orifice Depth	ft Monitor Tube Installed	
Flow Meter Mf			
	t: Gallons, Thousand Gallo		ng
e. IEST DATA	•	omitted on outpromonair om.	
	Date:		
Total Well Dep	oth: 480 ft. Time:		
Static Level:		1 11 1 A	
Date Measure	• • • • • • • • • • • • • • • • • • • •	y Level (ft):	sed 10 07.
7. DISINFECTION		If yes, please submit with this report.	sed (f) (7)
	malysis available. Tes [A. No	n yes, please submit with this report	
9. Remarks:			
certified in acc	cordance with Rule 17.4 of the W	ater Well Construction Rules, 2 CCR 40	rue to my knowledge. This document is signed and 12-2. [The filing of a document that contains false up to \$5000 and/or revocation of the contracting
Company Name:	Village Dellis	Phone	
Mailing Address	23945 Lucku la	he Calhan Co	683-3720   1148 80508
Signature:	Kunav	Print Name and Title  Tim Kundu / C	wner 5-26-11

Form STATE OF COLORADO	For Office Use Only
No. OFFICE OF THE STATE ENGINEER	
GWS-11 818 Centennial Bldg., 1313 Sherman St., Denver, CO 80203	RECEIVED
1/2009 Phone – Info: (303) 866-3587 Main: (303) 866-3581	REUL
Fax: (303) 866-3589 http://www.water.state.co.us	0011
CHANGE IN OWNER NAME/ADDRESS	AUG 1 9 2011
CORRECTION OF THE WELL LOCATION	Leaver FS
Review instructions on the reverse side prior to completing the form.	WATER RESOURER STATE COLO.
Name, address and phone of person claiming ownership of the well permit:	
NAME(S): Kelley M Scheinert	
Mailing Address: 8225 Poco Rd	
City, St. Zip: <u>C15</u> Co 80908	
Phone: (719) 238-2432	
E-mail (optional): Kelley bear 70 aol. Com	
This form is filed by the named individual/entity claiming that they are the own filing is made pursuant to C.R.S. 37-90-143.	er of the well permit as referenced below. This
	21,49795
WELL LOCATION: Well Permit Number: 255007 Receipt Num	ber 3011 LCase Number:
	or # (optional)
8275 Poco Road Colovados (Address)	SPVINGS CO 80908
(Address) (C	(State) (Zip)
$NW$ 1/4 of the $SE$ 1/4, Sec. $ZS$ , Twp. $12$ $\square$ N. or $S$ S., Range $U$	$5$ $\square$ E. or $\square$ W., $\square$ S\X\\ P.M.
Distance from Section Lines: 2500 Ft. From N. or S.,	St. From ⊠E. or □ W. Line.
Subdivision Name CUINCS Lot	
Subdivision Name Sec. 7163	
The above listed owner(s) say(s) that he, she (they) own the well permit descramended for the following reasons:	ribed herein. The existing record is being
Change in name of owner Change in mailing address Correction of 8, 1972 and non-exempt wells permitted before May 17, 1965.	location for exempt wells permitted prior to May
Please see the reverse side for further information regarding correction of the	well location.
I (we) claim and say that I (we) (are) the owner(s) of the well permit described made herein, and state that they are true to my (our) knowledge.	I above, know the contents of the statements
Signature(s) of the new owner Please print the Signer's Nam	ne & Title Date
Kolley makhainat Kelley MSa	heinert 8-17-11
It is the responsibility of the new owner of this well permit to complete and sig	·
if an original letter of agency signed by the owner is attached to the form upon	
For Office Use Only	
NO ANI	CEPTED AS A CHANGE OF OWNERSHIP B/GR MAILING ADDRESS
	A A A A A A A A A A A A A A A A A A A
Die Wolfe and	9-8-4
State Engineer By	Date

### **APPENDIX E**

### **WATER QUALITY FROM EXISTING WELLS**



### WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO 80246-1530 Inorganic Chemicals Certified Laboratory Report Form

Revised 6/13/2014

Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us

S	ection I (Sur	Section I (Sumfied or Completed by Public Water System)	Water System)	Cartina II (Cumilian	Santin II ( Summary or Commenter ) and her land	11-1-1	
	P	Public Water System Information	tion	Certifie	Certified Laboratory Information	II Lamoraliony;	
PWSID#: CO-0121724				Laboratory ID: CO 0015	THE PARTY AND TH		
System Name: LFH-1	LFH-1			Laboratory Name: Colorado Analytical Laboratory	ytical Laboratory		
Contact Person: Mark Volle	: Mark Voll	၁	Phone #: 719-227-0072	Contact Person: Customer Service	Phone: 303-659-2313	559-2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:			
						ļ	
			Section III (Supplied or Comp.	I (Supplied or Completed by Public Water System)			
Sample Date: 2/16/17	71/917	Collector: Stephanie Schwe   Facility II	Facility ID (On Schedule):	Sample Pt	Sample Pt ID (On Schedule):		
			tion IV Inorganic Chemicals (C	Section IV Inorganic Chemicals (Completed by Certified Laboratory)			
Lab Receipt Date	I ab Analysis Date	Lab Sample II)	Analyte Name	CAS No	Analytical MCI.	Lab MRL	Result
2/17/17	71//1/2	170217005-01	Fluoride	7681-49-4		60.0	1.07

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used.

**170217005-01** 

(Subcon	PHASE I, II, V Drinking Water Analyses (check analysis)		170217005
	Send Forms to State: Yes No X	A Company of the Comp	CAL Task No
<b>ان</b>	0 × 1		Sampler Name: Se done Sching on No.
www.coloradolab.co	Compliance Samples: Yes No 2	Email: jansatu 3870 achton	Email: Myolle@jdshydro.com Email: jmorte 9870000,com Compliance
Fax: 303-659-2315	County: El Paso	Phone: Fax:	Phone: 19-337-007drax;
Phone: 303-659-2313	City Color Series State CD zigo 90%	City Colo Segstant Ozip X0903	20702
Lakewood CO 80228	TIDS RISW GAPH		,
Lakewood Lab	NE 1/4 Nw1/4 527	TES PINN 1/1 AND SECURITY OF 1/4 NW1/4 SET	SADE TIVES HER ALL
Brighton, CO 80601	System Name:	Contact Name: J. D. L. Lycle L	Address
Brighton Lab	PWSID: (0-012)724		Contact Names Mark
LABORATORIES, INC.	State Form / Project Information	ort.10)	Company Name:

reet

Dr, Suite 100A 1228

COM

(1) PRO\$3 913 ... (C.)

<		Relinquished		Instructions:	2 5	3 (,	2	0	<u></u>	٠ (٠	٤	-			Date:	ARF	
	Dane.	3	-	S S	10.00	1	- 4	2000		>2 C	7000	7	3 7	14.5	Time.		
-	Sirer CIMICO	) Data/Time:		#	A S	#	9 4	6 6	# W	_ [ `	- 1	<u>*</u>	#2	*	Client Sample ID / EP Code		•
						0							(si	(Cu		Containers	100
9	2 M										X				Reside	ual Chlorine ) tamples Only	
	2				×											Coliform P	Α
_	17 n 6800	il		-	<u> </u>	_		$\perp$	ļ	_	$\downarrow$			×	504.1	EDB/DBC	P
	-) ime	1			_	_	$\vdash$	+	+	+	1	4	×		505 I	Pests/PCBs	
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	Containers	-		PO No.	Email: )(	Phone:	City COLO 365 State COZIP 80903		Address: 20 BOULDER	Contact Name: 32-7	,	Company Name: SR LATER	Bill To Information (If different from report to)	
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Colorado Analytical

Brighton Lab 240 South Main Street Brighton, CO 80601

Lakewood CO 80228 Lakewood Lab 12860 W. Cedar Dr, Suite 100A

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

It's state forms

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### Inorganic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS

Submit Online at http://www.wqcdcompliance.com/login

IOC

Revised 4/13/2015

(mg/L) 0.002 0.015 BDL BDL BDL 0.001 BDL Section II (Supplied or Completed by Certified Laboratory) 100000 0.001 0.001 0.001 0.001 0.001 0.00 Phone: 303-659-2313 Certified Laboratory Information (mg/L) 0.004 0.005 0.002 0.0 0.1 Sample Pt ID (On Schedule): Laboratory Name: Colorado Analytical Laboratory EPA 200.8 EPA 200.8 EPA 200.8 **EPA 200.8** EPA 200.8 EPA 200.8 **EPA 200.8** Method Contact Person: Customer Service Section IV Inorganic Chemicals (Completed by Certified Laboratory) Section III (Supplied or Completed by Public Water System) Laboratory ID: CO 0015 7740-36-0 7440-43-9 7440-47-3 7439-97-6 7440-39-3 7440-41-7 7440-38-2 CAS No Comments: Do Samples Need to be Composited BY THE LAB? Collector: Stephanie Schwe [Facility ID (On Schedule); Analyte Name Boryllium Chromium Barium Cadmium Antimony Arsenic Mercury Section I (Supplied or Completed by Public Water System) Phone #: Public Water System Information 170217005-01A 170217005-01A 170217005-01A 170217005-01A 170217005-01A 170217005-01A 170217005-01A Lab Sample II) ab Analysis Contact Person: Mark Volle 2/22/17 2/22/17 2/22/17 2/22/17 2/22/17 2/22/17 2/22/17 PWSID#: CO-0121724 System Name: LFH-1 Sample Date: 2/16/17 Lab Receipt Comments: 71/11/2 2/17/17 2/17/17 2/17/17 2/17/17 71/11/2 71/11/2 Date

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

Lab MRI.: Laboratory Minimum Reporting Level BDI.: Below Laboratory MRL. A less than (<) may also used.

NT: Not Tested

3/6/17 170217005-01A

0.001 BDI, 142.7 BDL

0.001 0.001

××

**EPA 200.8** EPA 200.7 EPA 200.8

7782-49-2

Selenium Sodium Thallium

Nickel

170217005-01A 170217005-01A 170217005-01A 170217005-01A

2/22/17

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2/22/17 2/24/17 2/22/17

7440-23-5

7440-28-0

7440-02-0

**EPA 200.8** 

0.00 0.1

N/A 0.002 0.05

170217005	Sampler Name: Se Channe Schwenke PONO:	Email: MYOLLE JAShyldro, Com Email: jmorthy 9870 God, Compliance Samples: Yes Myor	Phone: 119-337-007drax: Ph	City CS StateCOZID 80903 CI		2X Ave	-	Company Name: UDS-Hudro co	
PIASSI, I	No.:	will: j markly 28 70 adv.com	Phone: Fax:	City ColoSassane Cozip 80903		Address: 20 Boulder (RESCONST NOTA NOW)/4 527	Contact Name: Jim (Therless	Company Name: SK-Waster	Bill To Information (If different from report to) State Form / Project Information
PHASE I, II, V Drinking Water Analyses (check analysis)	Send Forms to State: Yes ZNo XI	7	County: El Paso	City Lob Sers Smill zingo 90%	TIDS EGSW 1 HAY	NE 1/4 Nw 1/4 527	System Name:	PWSID: 60-0121724	State Form / Project Information
alysis)	Jw.S	WWW.ca	Yee AFax: 30	Phone	Lakewo	Lakewo	Brighto	Brighto	LABOHA

ABORATORIES, INC.

hton <u>Lab</u> South Main Street hton, CO 80601

vgod Lab W. Cedar Dr, Suite 100A vood CO 80228

e: 303-659-2313 303-659-2315

coloradolab.com

SUVA, UV 254 (Circle)
Metals
Gross Alpha/Beta

Date | Time

Client Sample ID / EP Code

No. of Containers

Residual Chlorine (mg/L) P/A Samples Only

Total Coliform P/A

504.1 EDB/DBCP 505 Pests/PCBs 515.4 Herbicides 524.2 VOCs

525.2 SOCs-Pest

531.1 Carbamates 547 Glyphosate 548.1 Endothall 549.2 Diquat 524.2 TTHMs 552.2 HAA5s

Lead/Copper

Nitrate Nitrite

Fluoride

Inorganics

Alk./Lang. Index

TOC DOC (Circle)

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<u>S</u> a/Beta Radium 226 Radium 228 Radon

Uranium

Subcontract Analyses 11 11 PERS 1913 - 11 1.12

	Sampler Name: STEPH SCHNENCKE	Email: Par Myalle & joddyydro, con Email: jmorley@ 3870(200), con Compliance Samples: Yes X No	Phone: 719-227-0072Fax:	CityCoa SP65 State CO Zip \$0903	SULTIFIC BOOD	SHS E. BYES PERK AND	Address: Address:	Company Name: JDS HNDRO	SEPORE TO ESTORMAN
	PO No.:	Email: jmortey@3570@aol.com	Phone: Fax:	City Colo 265 State Co Zip 60903		SHS E. BYES PEAK AND Address: 20 BOWLDER CRESCENT ST NEW NOW 527	Contact Name: JTM MORLEY	Company Name: SR WATER	Bill To information (if different from report to)
	Send Forms to State: Yes TNO N Terries	Compliance Samples: Yes X No 12	County: EL PASO	City COLO SPGS State CO Zip (0708)	TIDS RUSED CT PM	Address AND 4 527	System Name:	rwsid: Co-0121724	State Form / Project Information
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Colorado Analytical

Brighton Lab 240 South Main Street Brighton, CO 80601

Lakewood Lab 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

Prepresults state forms

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Lab Control ID: B16917 Received: Feb 17, 2017 Reported: Mar 20, 2017 Purchase Order No.

None Received

Customer ID: 20040H Account ID: Z01034 Project #: 009-616

### **ANALYTICAL REPORT**

### Stuart Nielson Colorado Analytical Laboratories, Inc.

L	ab San	ple ID	B16917-001					
Custom	ner Sam	ple ID	170217005-	01 - Lfh-1 - F	PWSID: CO	0121724 - LFH-1		
				sampled or	02/16/17 (	@ 0906 by Stephanie Sch	wenke	
				Precision*	Detection		Analysis	
Parameter		Code	Result	+/-	Limit	Method	Date / Time	Analyst
<b>Gross Alpha</b>			0.0	0.0	1.5	SM 7110 B	3/2/17 @ 0840	LD
Gross Beta	pCI/L	Т	0.0	2.1	2.2	SM 7110 B	3/2/17 @ 0840	LD
	pCI/L	T	0.0	0.2	0.1	SM 7500-Ra B	3/3/17 @ 0825	LD
	pCi/L	T	0.0	0.8	8.0	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

Codes: (T) = Total (D) = Dissolved (S) = Susspended (R) = Total Residual (PD) = Potentially Dissolved <= Less Than

<sup>&</sup>quot;Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



## Radionuclides 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



Revision 6/13/2014

ACA CONSOCIALITY		*	100 (coc) vo	1 ms. (202) 120-1270, capine mining waitingstate co.us	arca (astarc.co. as				
	Section	Section I (Supplied or Completed by Public	blic Water System)		Section II (Supplied or Completed by Certified Laboratory)	d or Completed	by Certified L	aboratory)	
	A.	Public Water System Information			Certified La	Certified Laboratory Information	ration		
PWS ID: C00121724	1724			Laboratory ID: CO 00008	\$0000 C				
System Name: Lfh-1	h-1			Laboratory Name	Laboratory Name: Hazen Research, Inc.				
Contact Person:			Phone #:	Contact Person: Jessica Axen	essica Axen		Phone #: 303-279-4501	279-4501	
Comments:			Do Samples Need to be Composited BY THE LAB?	AB? Comments:					·
			Section III (Su	Section III (Supplied or Completed by Public Water System)	Public Water System)				
Sample Date: 02/16/2017	2/16/2017	Collector: Stephanie Schwenke Facility ID (On Schedule):	Facility ID (On Sche		Sample Pt ID (On Schedule):				
			Section IV Radionuc	ides (Supplied or Comp	Section IV Radionuclides (Supplied or Completed by Certified Laboratory)	ory)			
Lab Receipt Lab Analysis Date Date	ab Analysis Date	Lab Sample ID	Analyte Na	Analyte Name (Code)	CAS No.	Analytical Method	MCL	Lab MRL	Result
2 2100/11/00	7100/2012	R16917_001	Gross Alpha Including Uranium (4002)	ing Uranium (4002)	12587-46-1	SM 7110 B	Z/A	1.5	0.0(=0.0)
	170770000		Combined Ur	Combined Uranium (4006)	7440-61-1	D2907-97	30 ng/L		
02/17/2017	03/03/2017	B16917-001	Radium -2	Radium -226 (4020)	13982-63-3	SM 7500-Ra B	N/A	0.1	0.0(±0.2)
02/17/2017	03/14/2017	B16917-001	Radium -2	Radium -228 (4030)	15262-20-1	EPA Ra-05	N/A	8.0	0.0(±0.8)
02/17/2017	03/02/2017	B16917-001	Gross Be	Gross Beta (4100)	12587-47-2	SM 7110 B	50 pCi/L*	2.2	0.0(±2.1)
			Total Dissolve	Total Dissolved Solids (1930)		EPA 160.3	NA		
*The MCL for	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.	r. Since there is no sir	nple conversion betwe	en mrem/year and pCi/L	EPA considers 5	50 pCi/L to be	e the level	f concern.
			Section V Calculated Values	ated Values					
		<b>▼</b> /N	Gross Alpha Excluding Uranium (4000)	ling Uranium (4000)	Calculated Value	afue	15 pCi/L	N/A	
	.7	Δ);	Combined Radium {	Combined Radium {-226 & -228} (4010)	Calculated Value	alue	5 pCi/L	N/A	

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

BDL: Below Laboratory MRL. A less than sign (<) may also be used

ug/L: Micrograms per Liter

pCi/L: Picocuries per Liter

MCL: Maximum Contaminant Level

Report To Information	Bill To Information (If different from report to)	State Form / Project Information
Company Name: Colorado Analytical	Company Name: Same As Report To	PWSID: C00121724
Confact Name: Stuart Nielson	Contact Name:	System Name: Lfh-1
Address: 240 S. Main St.	Address:	System Address: No. 1/4 Nw. 1/4 527
City: Brighton State: CO Zip: 80601	City: State: Zip:	T125 R65w 6th Pm City: Colorado Spgs State: CO Zip: 80908
Phone:303-659-2313 Fax:303-659-2315	Phone: Fax:	County: El Paso
Email: stuartnielson@coloradolab.com	Email:	Compliance Samples: Yes ⊠ No □
Sampler Name: Stephanic Schwenke	PO No.:	Send Forms to State: Yes No 🛛

	Colorado Analo
-5	J.C.

Brighton Lab 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

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2011	2/17/16			Instructions:Please print on state forms but do not submit to CDPHE. Thanks!		:			140		BOTTLES	170217005-01 LFH-1	Client Sample ID / EP Code			
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		Deli		C/S Info:									525.2	2 SOCs-Pest		I, I
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	Date/Time: 430	-	12	Ö	6							X	Rado	n		Subcontract Analyses
	O.Z.		/	J									Uran	ium		2



### **Analytical Results**

TASK NO: 170217005

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

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
рН	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:

Mt. = Minimum Level = LRL = RL
mg/L = Milligrams Per Litter or PPM
ug/L = Micrograms Per Litter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

Bill To Information (If different from report to) State Form / Project Information

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ABORATORII	olyt	Q	-
RIES, INC.		opo	_

240 South Main Street Brighton, CO 80601 Brighton Lab

Lakewood Lab 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313

AFax: 303-659-2315

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Sampler Name: Storan Shuxak PONO.

Email: Myolle @ Jashydro, Com

Phone: 719-227-007drax:

Phone:

Fax:

County: El Paso

Cr

State OZip Sto903

City ColoSocissine Cozin 80903

Singly sund zigogo

TIDS RESW 6#AH

Address: 20 Beauther Crescentst

Ne 1/4 Nw 1/4

027

Contact Name: Jim Morley

PWSID: Co. DI 21724 System Name: LFH-1

Company Name: SP Waster

Address S45 E. Piles Real Air

Suite 200

Contact Name | LOVE Volle

Company Name: JDS-Hydro

Report To Information

		Relinanthy	Instructions:	8.5.8	MS.60	× S	2000	0000		, , o , o , o , o , o , o , o , o , o ,	TOOCH	3:30	100	-1.51		CAL Task No.
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	Relinquished By:	Delivered Via: Delivered	C/S Info:	×		*						ς .			525.2 SOCs-Pest 531.1 Carbamates 547 Glyphosate 548.1 Endothall 549.2 Diquat	PHASE I, II, V Drinking We
	Date/Timek	C/S Charge N T	> 2						×.×.						524.2 TTHMs 552.2 HAA5s Lead/Copper Nitrate Nitrite	ing Water Analyses (check analysis)
	-	Temp. A °C/Ice 4	Scals Present Yes   No W				×	,	×						TOO DOC (Circle) SUVA, UV 254 (Circle)	malysis)
	9	Sample Pres. Yes No No	Headspace Yes No					X							Gross Alpha/Beta Radium 226 Radium 228 Radon Uranium	Subcontract Analysis

	CAL Task No. 170217005	Sampler Name: STEPH SCHWENKE	Email: Bar Myalle @ joshydra, con Email: jmorley@ 3870@gol.com Compliance Samples: Yes X No	Phone: 719-227-0072 Fax:	CityCas SP65 State Co Zip \$0903	SUCTE 300	SHS F. BYES PEAK AND	Address:	Company Name: UDS HYDRO	Report To Information
iners		PO No.:	Email:	Phone:	City COLO Stass State COZip (OP 03		Address: Add	Contact Name: 3747 MOKIE	Company Name: SR WATER	Bill To Information (If different from report to)
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Colorado Analytical

Brighton Lab
240 South Main Street
Brighton, CO 80601

<u>Lakewood Lab</u> 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

It's state forms

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# Nitrate and Nitrite as Nitrogen Certified Laboratory Report Form WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login

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Revised 4/13/2015

ATTA EZIMICONICON											
Sect	Section I (Supplied or Completed by Public Water System)	ed by Public W	(ater System)			Section II (S	Section II (Supplied or Completed by Certified Laboratory)	pleted by Cer	ified Lab	hratory	
	Public Water System Information	em Informatio	n				Certified Laboratory Information	atory Inform	nation	A MANAGE A L	
PWSID#: CO-0121724	1724				Laborato	Laboratory ID: CO 0015					
System Name: LFH-1	H-1		i		Laborato	Laboratory Name: Colorado Analytical Laboratory	ido Analytical Li	aboratory			
Contact Person: Mark Volle	fark Volle	I	Phone #: 719	719-227-0072	Contact J	Contact Person: Customer Service	r Service	Phone: 3	Phone: 303-659-2313	113	
Comments:					Comments:	ıts:	:				
Section III (S	Section III (Supplied or Completed by Public Water System)	ublic Water Sy	stem)		Sec	Section IV (Supplied or Completed by Certified Laboratory)	or Completed b	v Certified L	aboratory		
Sample Collector	н Facifity ID On Schedule	Sample Pt II) Confirmation?	Confirmation?	世	Lab Analy	Laboratory	Analyte	Analytical	MCL	Lab MRI.	Result
7/16/17		Cili Sciledime		Date	CARC	Nample ID #		Method	(mg/L)	(mg/L)	(mg/L)
2/10/1/ cpnanic schwenk	WCTIK			2/17/17	2/17/17	170217005-01	Nitrate Nitrogen	EPA 300.0	01	0.1	BDL
2/16/17 tephanie Schwenk	wenk			2/17/17	71/11/2	170217005-01	Nitrite Nitrogen	EPA 300.0	_	0.1	BDL

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

NT: Not Tested Lah MRI.: Laboratory Minimum Reporting Level BDL: Below Laboratory MRI. A less than (<) may also used.

3/6/17 170217005-01

170217005	Sampler Name: Se prome Shusente PONO.	Email: Myolle@jdshydro.com Email: jmortly 3070 achtom compliance Samples: Yes 1 No.	Phone: 119-227-007drax:	City CS StanCOzip 80903	Suit 200	SHS E. P. Ves Peak Ave	Contact Names   BAC VOLK	Company Name: UDS-Hudro	
	PO No.:	Email: j markly 38 20 achton	Phone: Fax:	City ColoSpession Cozip S0903		Address: 20 Bentler (resents) Address: 14 NW1/4 527	Contact Name: J. M Marley	Company Name: Skubler	Bull To Information (If different from report to)
PHASE I, II, V Drinking Water Analyses (check analysis)	Send Forms to State: Yes No X	Y		City ledo Seris Sunt D zigo 90%	TIDS BESW 1 TOWN	Address; /4 Nw /4 527	System Name:	rwsid: Co. DI 21724	State Form Project Information
ilysis)	14°C	www.colorad	AFax: 303-659-	Phone: 303-6	12860 W. Cec	Lakewood La	Brighton, CO	Brighton Lab	LABORATORIES,

<u>Ab</u> Main Street CO 80601

Lab Cedar Dr, Suite 100A CO 80228

-659-2313 59-2315

dolab.com

	Fluoride	
	Inorganics	an You
	Alk./Lang. Index	٤
4	TOC DOC (Circle)	
	SUVA, UV 254 (Circle)	
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Date | Time

Client Sample ID / EP Code

No. of Containers

Residual Chlorine (mg/L) P/A Samples Only

Total Coliform P/A

504.1 EDB/DBCP 505 Pests/PCBs 515.4 Herbicides 524.2 VOCs

525.2 SOCs-Pest

531.1 Carbamates 547 Glyphosate 548.1 Endothall 549.2 Diquat 524.2 TTHMs 552.2 HAA5s

Lead/Copper

Nitrate Nitrite

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Received By: °C /Ice Sample Pres. Yes N Date/Time **₽**  Scals Present Yes | No | No

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C/S Info:

Instructions:

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Uranium

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LABORATO	Produ	
ABORATORIES, INC.	ticol	

Webort to information	Bill To information (If different from report to)	State Form / Project Information
Company Name: JDS HNDRO	Company Name: SR WATER	וניבורוס מל
Contact Name: MARK VOLLE	Contact Name: OTA MORLEY	System Name:
A 3.5	COURSE NAME: CAT TOO TO	TTE-1
SYS E. BYEN PEAK AND	SHS E. PEAK AND Address 20 BOWLDER CRESCENT ST NEW NOW 527	NEW NOW S27
SUSTR- 300		T125 RGSW 67 PM
CityCon SP65 State COZip \$0903	City Colo 365 State Cozip 60903	CityCOLO SPGS StateCO Zip (10908)
Phone: 719-227-0072 Fax:	Phone: Fax:	County: EL PASO
Email: Bar Myalle & jobshydro, con Email: jmorley@ 3870@acl.compliance Samples: Yes X No	Email: jmorley@3870@ach.com	Compliance Samples: Yes X No

Brighton Lab
240 South Main Street
Brighton, CO 80601

Lakewood Lab
12860 W. Cedar Dr., Suite 100A

Phone: 303-659-2313 Fax: 303-659-2315 Lakewood CO 80228

www.coloradolab.com

please the share forms

Send Forms to State: Yes No X

Sampler Name: STEPH SCHWENKE

		Instructions:	M. Cho	£15.5	1 kg	8:44	JIP 8340	£175 E	3,75	9:50	2 6 5 3	Date Time	ARF	200717005	CAL Task No.
1/6/17 3:50			ある		L!#	416	#15	1年	中	412	#	Client Sample ID / EP Code			
Son Reported By:	1	211 +) SOUBLAND	فن					_	v	W	w	No. o	f Containers		
2/17/11		lank	r			•						P/A S Total 504.1	amples Only Coliform F EDB/DBC Pests/PCBs	P/A	
OGO Relinquished B	Vo A  Delivered Via:	C/S Info	×									525.2 531.1	Herbicides  VOCs 6  SOCs-Pest  Carbamate	24	PHASE I, II, V
ished By:	5			×								548.1 549.2 524.2	Endothall Diquat TTHMs		PHASE I, II, V Drinking Water Analyses (check analysis)
Date/Time:	C/S Charge											Lead/ Nitrat	e Decoration		Analyses (check
Received By:	Temp. O °C/lee \	Seals Present Yes 🗌 No			X							Inorga Alk./I	المعادر	le)	analysis)
Date/Time:	Sample Pres. Yes 10	No N Headspace Yes No				•	×	×		×.	×	Gross Radiu Radiu	Alpha/Beta m 226 m 228		Subcontract Analyses
		2						X	1			Urani	um age 3,01		nalyses

# Organic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS

Submit Online at http://www.wqcdcompliance.com/login

VOC/SOC

Revised 4/13/2015

	ection I (Sumfie	Section I (Sumiled or Completed by Public Water System)	w Woter Crestom)	Confine II (Consister	A section of the sect			
	Public	Public Water System Information	nation	Section 1 Library	Certified Laboratory Information	Ition Laboral	(Alig	
PWSID#: CO-0121724				Laboratory ID: CO 00063	AND THE PERSON AND TH			
System Name: LFH-1	LFH-1			Laboratory Name: Colorado Analytical Laboratory	nalytical Laboratory			
Contact Person: Mark Volle	: Mark Volle		Phone #: 719-227-0072	Contact Person: Customer Service	Phone:	303-659-2313		
Comments:			Do Samples Need to be	Comments:	-1 -0 -0 -0 -0 -0 -0			
	·		Composited BY THE LAB?					
PWSID#: CO-0121724	21724		Section V (Supplied or Compl	(Supplied or Completed by Public Water System)				
Sample Date: 2/16/17		Collector: Stephanie Sc		Sample	Sample Pt ID (On Schedule):			
		Section VJ S	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	plied or Completed by Certified	Laboratory)			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	ical		WRL	Result
2/17/17	2/24/17	170217005-01E	Dibromochloropropane	96-12-8	EPA 504.1 0.2	(1007)	12	(ug/L.)
2/17/17	3/1/17	170217005-01G	2,4,-D	94-75-7				BDL
2/17/17	3/1/17	170217005-01G	2,4,5.TP	93-72-1	EPA 515.4 50		2	BDL
21/1/1/2	2/23/17	170217005-01H	Alachlor	15972-60-8	EPA 525.2 2	0.2	2	BDI.
2/17/17	3/2/17	170217005-011	Aldicarb	116-06-3	EPA 531.1 N/A	A 0.6	9	BDL
2/17/17	3/2/17	170217005-011	Aldicarb sulfone	1646-88-4	EPA 531.1 N/A	-		BDL
2/1/71/2	3/2/17	170217005-011	Aldicarb suffoxide	1646-87-3	EPA 531.1 N/A	A 0.7	7	BDL
2/17/17	2/23/17	170217005-0111	Atrazine	1912-24-9	EPA 525.2 3	1.0	1	BDI.
2/17/17	2/23/17	170217005-01H	Benzo(a)pyrene	50-32-8	EPA 525.2 0.2	0.02	12	BDL
2/17/17	3/2/17	170217005-011	Carbofuran	1563-66-2	EPA 531.1 40	6.0	6	BDL
2/1//17	2/24/17	170217005-01F	Chlordane	57-74-9		0.2	2	BDI.
71//1/2	3/1/17	170217005-01G	Dalapon	75-99-0		1		BDL
71/1/17	2/23/17	170217005-0111	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2 400	0.0	9	BDL
2/1//1/2	2/23/17	170217005-01H	Di(2-ethylhexyl)phthalate	117-81-7		0.0	9	BDI.
71//1/2	3/1/17	170217005-01G	Dinosch	85-85-7	EPA 515.4	0.2	2	BDL
2/17/17	2/23/17	170217005-01K	Diquat	85-00-7		0.4	4	BDL
11//1/2	2/23/17	170217005-013	Endothall	145-73-3	EPA 548.1 100	6 0		BDL
2/11/1/2	2/24/17	170217005-01F	Endrin	72-20-8	EPA 505 2	0.01	10	BDL
71//1/2	2/24/17	170217005-01E	Ethylene dibromide	106-93-4	EPA 504.1 0.05	5 0.01	=	BDI.
11/11/7	2/23/17	170217005-01H	Heptachlor	76-44-8	EPA 525.2 0.4	0.04	#	BDL
2/17/17	2/24/17	170217005-01F	Heptachlor epoxide	1024-57-3	EPA 505 0.2	0.02	12	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.

170217005-01

1/2 3/6/17

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			Result	(ug/L)	BDL	BDL	BDL	BDL	BDL	RDL	BDL	BDL	BDI.	BDI
			Lab MRL	(ng/L,)	0.1	0.1	0.02	0.1	1	0.04	0.1	0.1	0.07	-
			MCL	(mg/l.)	I	50	0.2	40	200	-	200	0.5	4	3
	Sample Pt ID (On Schedule):	aboratory)	Analytical	Method	EPA 505	EPA 505	EPA 505	EPA 505	EPA 531.1	EPA 515.4	EPA 515.4	EPA 505	EPA 525.2	EPA 505
blic Water System)	Sample Pt	ompleted by Certified L	CAS No		118-74-1	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 biphenyl's	Simazine	Toxaphene
	Collector: Stephanie Schwenk Faci	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
1724	6/17		Lab 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	21/11/2	2/17/17	2/17/17	2/17/17	21/117	2/17/17	2/17/17	2/17/17	2/17/17

170217005	Sampler Name: Se Craine Schwenke PONO:	Email: Myolle@jdshydro, com Email: jmorthy 38 10000, com Compliance Samples: Yes Ming	Phone: 119-227-007drax:	City CS Stant Ozip 80903	Wit 300	THIS E. P. Vas Peak Ave		0	
	PONo.:	Email: j mortly 28 10 ach con	Phone: Fax:	city ColoSpession COZip 80903		Address: 20 Denuber (resentst Address: Address:	Contact Name: Jim Markey	Company Name: SP Waker	But To Information (If different from report to) State Form / Project Information
PHASE I, II, V Drinking Water Analyses (check analysis)	Send Forms to State: Yes No 31	Y		W "	TIDS PASK LATER	Address:	System Name:	PWSID: 10-012111	State Form / Project Information
\$15)	v	e www.colorad	AFax: 303-659	Phone: 303-6	12860 W. Ce	Lakewood La	240 South M Brighton, CC	Brighton Lal	LABORATORIES,

LABORATORIES, INC.

Main Street

Lab Cedar Dr, Suite 100A CO 80228

-659-2313 59-2315 dolab.com

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Alk./Lang. Index	٤
TOC DOC (Circle)	
SUVA, UV 254 (Circle)	
metals	
Gross Alpha/Beta	
Radium 226	2000
Radium 228	
Radon	Alla
Uranium	Vec

1 PROR 1914 ....

Date | Time

Client Sample ID / EP Code

No. of Containers

Residual Chlorine (mg/L) P/A Samplés Only

Total Coliform P/A

504.1 EDB/DBCP 505 Pests/PCBs 515.4 Herbicides 524.2 VOCs

525.2 SOCs-Pest

531.1 Carbamates 547 Glyphosate 548.1 Endothall 549.2 Diquat **524.2 TTHMs** 552.2 HAA5s

Lead/Copper

Nitrate Nitrite

Fluoride

Inorganics

ARF

Instructions:

Date/Time:

Date Time:

Delivered Via:

Relinquished By:

Date/Time

Received By:

°C/Ice

Sample Pres. Yes No |

C/S Info:

Seals Present Yes | No |

Headspace Yes No

HS%

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## **Drinking Water Chain of Custody**

Bill To information (If different from report to)

State Form / Project Information

Report To Information

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*		SOYBLANK											(mg/L	) amples Only				Email: jmorley@ 3870@aol.comCompliance Samples: Yes X No		City Colo Abs State Co Zip		0 80	Contact Name: JY	Company Name: SR
7 8		F	_										Total	Coliform P/A		7		SH S		Sta		BOULDER	K	- 1
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Colorado Analytical



### **Analytical Results**

TASK NO: 170217005

Report To: Mark Voile

Company: JDS Hydro Consultants 545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

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	LJG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L		VDB
E-Coli	< 1 mpn/100ml	Colilert	1 mpn/100mi		VDB
Sulfate	·	EPA 300.0	0.1 mg/L		ЫG
Total Coliform	142.1 mg/L	Colliert	1 mpn/100ml		VDB
	93 mpn/100ml		•		ISG
Total Organic Carbon	0.8 mg/L	SM 5310-C	0.5 mg/L		
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		TCD
Iron	0.602 mg/L	EPA 200.7	0.005 mg/L		MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001 mg/L		TCD
Magnesium	0.39 mg/L	EPA 200.7	0.02 mg/L		MBN
Manganese	0.0259 mg/L	EPA 200.8	0.0008 mg/L		TCD
Potassium	1.6 mg/L	EPA 200.7	0.1 mg/L		MBN
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L		TCD
Strontium	0.037 mg/L	EPA 200.8	0.005 mg/L		TCD
Total Hardness	7.7 mg/L as CaCO3	SM 2340-B	0.1 mg/L as CaCO3		MBN
Uranium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L		TCD
Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L		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

**DATA APPROVED FOR RELEASE BY** 



### **Analytical Results**

TASK NO: 170217005

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

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
<u>Total</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

DATA APPROVED FOR RELEASE BY

Bill To Information ([fillferent from report to) State Form / Project Information

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Colorado Analytical

### **Drinking Water Chain of Custody**

Email: Mar Myalle & jobshydor, con Email: jmorley@3870@aol.compliance Sa	Phone: 719-227-0072Fax:	CityCoa 5P65 State COZip \$0903	SWEETE 300	SHS F. BYEN PEAK AND	Address:	Company Name: JDS HNDRO	Report To Information
Email: jmorley@3870@gol.com	Phone: Fax:	City Colo 365 State Cozip 20903		SYS E. PINES PEAK AND Address 20 BOWLDER CRESCENT ST NEW NOW 527	Contact Name: 33-77 MORLEY	Company Name: SR WATTER	Bill To Information (If different from report to)
mples: Yes X No	County: EL PASO	CityCOLO SPGS StateCO Zip (10708	T125 RGSW GT PM	NEW NOW 527	LEH-1	PWSID: CO-0121724	State Form / Project Information
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Colorado Analytical

Brighton Lab 240 South Main Street Brighton, CO 80601

Lakewood CO 80228 Lakewood Lab 12860 W. Cedar Dr, Suite 100A

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

Presidents state forms

Send Forms to State: Yes TNo X

Sampler Name: STEPH SCHWENKE

CAL Task No.

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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	Receive 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:

Digitally signed by Randy Horton

Date: 2017.03.02 10:49:28 -07:00

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

CLIENT: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Report Date: 03/02/17

**CASE NARRATIVE** 

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

### 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

Analyses	Result	Units Q	ualifiers RL	MCL/ QCL	Method	Analysis Date / By
VOCS BY AZEOTROPIC DISTILLATIO	N					
1,4-Dioxane	ND	ug/L	1.0		SW8260M	02/27/17 11:16 / eli-b
<ul> <li>Analysis by direct aqueous injection of the sar quantitate the 1,4-Dioxane and account for any</li> </ul>	nple distillate. A	deuterated versi	on of 1,4-Dioxane wation.	as added to th	e sample prior	
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		E624	02/24/17 19:19 / eli-b
Acrylonitrile	ND	ug/L	20		E624	02/24/17 19:19 / eli-b
Benzene		ug/L	1.0		E624	02/24/17 19:19 / eli-b
Bromobenzene	ND	ug/L	1.0		E624	02/24/17 19:19 / ell-b
Bromochioromethane	ND	ug/L	1.0		E624	02/24/17 19:19 / eli-b
Bromodichloromethane		ug/L	1.0		E624	02/24/17 19:19 / eli-b
Bromoform		ug/L	1.0		E624	02/24/17 19:19 / eli-b
Bromomethane		ug/L	1.0		E624	02/24/17 19:19 / eli-b
Carbon disulfide		ug/L	1.0		E624	02/24/17 19:19 / eli-b
Carbon tetrachloride		ug/L	1.0		E624	02/24/17 19:19 / eli-b
Chlorobenzene		ug/L	1.0		E624	02/24/17 19:19 / eli-b
Chlorodibromomethane		ug/L	1.0		E624	02/24/17 19:19 / eli-b
Chloroethane		ug/L	1.0		E624	02/24/17 19:19 / eli-b
2-Chloroethyl vinyl ether		ug/L	1.0		E624	02/24/17 19:19 / eli-b
Chloroform		ug/L	1.0		E624	02/24/17 19:19 / eli-b
Chloromethane		ug/L	1.0		E624	02/24/17 19:19 / eli-b
2-Chlorotoluene		ug/L	1.0		E624	02/24/17 19:19 / eli-b
4-Chlorotoluene		ug/L	1.0		E624	02/24/17 19:19 / eli-b
1.2-Dibromoethane		ug/L	1.0		E624	
Dibromomethene		_	1.0		E624	02/24/17 19:19 / eli-b
1,2-Dichlorobenzene		ug/L			E624	02/24/17 19:19 / eli-b
1,3-Dichlorobenzene		ug/L	1.0 1.0		E624	02/24/17 19:19 / eli-b
1,4-Dichlorobenzene		ug/L				02/24/17 19:19 / eli-b
Dichlorodiflucromethane		ug/L	1.0		E624	02/24/17 19:19 / eli-b
1.1-Dichloroethane		ug/L	1.0		E624	02/24/17 19:19 / eli-b
1.2-Dichloroethane		ug/L	1.0		E624	02/24/17 19:19 / eli-b
		ug/L	1.0		E624	02/24/17 19:19 / eli-b
1,1-Dichloroethene		ug/L	1.0		<b>E624</b>	02/24/17 19:19 / eli-b
cls-1,2-Dichloroethene		ug/L	1.0		<b>=624</b>	02/24/17 19:19 / ell-b
trans-1,2-Dichloroethene	ND I		1.0		<b>=624</b>	02/24/17 19:19 / eli-b
1,2-Dichloropropane	ND t		1.0		624	02/24/17 19:19 / eli-b
1,3-Dichloropropane	ND (	_	1.0		E624	02/24/17 19:19 / eli-b
2,2-Dichloropropane	ND t		1.0		E624	02/24/17 19:19 / eli-b
1,1-Dichloropropene	ND t	-	1.0		E624	02/24/17 19:19 / eli-b
cis-1,3-Dichloropropene	ND (	_	1.0		E624	02/24/17 19:19 / eli-b
trans-1,3-Dichloropropene	ND (	-	1.0		E624	02/24/17 19:19 / eli-b
Ethylbenzene	ND (	ug/L	1.0	E	E624	02/24/17 19:19 / eli-b

RL - Analyte reporting limit.

Report Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc 170217005 LFH-1 CO-0121724

Project: 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

Amalueae	Dani. M	Haita	Qualifica	<b>D</b> it	MCL/ QCL Method	Analysis Data / De-
Analyses	Result	Units	Qualifiers	RL.	QCL Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS						
Methyl tert-butyl ether (MTBE)	ND	ug/L	2	2.0	E624	02/24/17 19:19 / eli-l
Methyl ethyl ketone	ND	ug/L	:	20	E624	02/24/17 19:19 / eli-l
Methyl isobutyl ketone	ND	ug/L		10	E624	02/24/17 19:19 / eli-t
Methylene chloride	ND	ug/L	1	1.0	E624	02/24/17 19:19 / eli-l
Naphthallene	ND	ug/L	0	.50	E624	02/24/17 19:19 / eli-l
Styrene	ND	ug/L	1	1.0	E624	02/24/17 19:19 / eli-t
Tetrachloroethene	ND	ug/L	1	1.0	E624	02/24/17 19:19 / eli-l
1,1,1,2-Tetrachloroethane	ND	ug/L	1	1.0	E624	02/24/17 19:19 / eli-b
1,1,2,2-Tetrachloroethane	ND	ug/L	1	1.0	E624	02/24/17 19:19 / ell-t
Toluene	ND	ug/L	1	1.0	E624	02/24/17 19:19 / ell-b
Trichioroethene	ND	ug/L	1	1.0	E624	02/24/17 19:19 / eli-t
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	1.0	E624	02/24/17 19:19 / eli-b
Frichlorofluoromethane	ND	ug/L	1	1.0	E624	02/24/17 19:19 / eli-b
1,2,3-Trichloropropane	ND	ug/L	1	1.0	E624	02/24/17 19:19 / eli-t
/inyl Acetate	ND	ug/L	1	1.0	E624	02/24/17 19:19 / eli-t
/inyl chloride	ND	ug/L	1	1.0	E624	02/24/17 19:19 / eli-b
n+p-Xylenes	ND	ug/L	1	1.0	E624	02/24/17 19:19 / eli-b
-Xylene	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-t
Kylenes, Total		ug/L		1.0	E624	02/24/17 19:19 / eli-b
Surr: 1,2-Dichloroethane-d4		%REC		-139	E624	02/24/17 19:19 / eli-b
Surr: p-Bromofluorobenzene		%REC		-127	E624	02/24/17 19:19 / eli-b
Surr: Toluene-d8	94.0	%REC	80-	-123	E624	02/24/17 19:19 / eli-b
SEMI-VOLATILE ORGANIC COMPOU	NDS					
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
Zobenzene		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
Benzo(a)pyrene		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
-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
-Chloro-3-methylphenol		ug/L ug/L		10	E625	02/27/17 19:27 / eli-b
is(-2-chloroethoxy)Methane		ug/L		10	E625	02/27/17 19:27 / eli-b
pis(-2-chloroethyl)Ether		ug/L		10	E625	02/27/17 19:27 / eli-b
vis(2-chloroisopropyl)Ether		ug/L		10	E625	02/27/17 19:27 / eli-b
2-Chloronaphthaiene		ug/L ug/L		10	E625	02/27/17 19:27 / eli-b
OTHER REPUBLISHED	ND	ωB⊁ Ľ		i V	E020	02/2//11 19.2// (011-0

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.



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### 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

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL Me	thod	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPO	PUNDS				_		-
4-Chlorophenyl phenyl ether	ND.	ug/L		10	E6:	25	02/27/17 19:27 / eli-b
Chrysene	ND	ug/L		10	E6:		02/27/17 19:27 / eli-t
Diethyl phthalate	ND	ug/L		10	E6:		02/27/17 19:27 / eli-t
Di-n-butyl phthalate	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
1,2-Dichlorobenzene	ND	ug/L		10	E6:		02/27/17 19:27 / eli-k
1,3-Dichlorobenzene	ND	ug/L		10	E6:		02/27/17 19:27 / ell-t
1.4-Dichlorobenzene	ND	ug/L		10	E6:		02/27/17 19:27 / eli-t
3,3'-Dichlorobenzidine	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
2,4-Dichlorophenol	ND	ug/L		10	E6:		02/27/17 19:27 / ell-b
Dimethyl phthalate	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
Di-n-octyl phthalate	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
2,4-Dimethylphenol	ND	ug/L		10	E6:		02/27/17 19:27 / eli-t
4,6-Dinitro-2-methylphenol	ND	ug/L		50	E6:		02/27/17 19:27 / eli-b
2,4-Dinitrophenol	ND	ug/L		50	E6:		02/27/17 19:27 / eli-b
2.4-Dinitrotoluene	ND	ug/L		10	E6:		02/27/17 19:27 / ell-b
2,6-Dinitrotoluene	ND	ug/L		10	E6:		02/27/17 19:27 / e(i-k
pis(2-ethylhexyl)Phthalate	ND	ug/L		10	E6:		02/27/17 19:27 / eli-t
Fluoranthene	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
Fluorene	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
Hexachlorobenzene	ND	ug/L		10	E62		02/27/17 19:27 / eli-b
-lexachlorobutadiene	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10	E62		02/27/17 19:27 / eli-b
Hexachloroethane	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
ndeno(1,2,3-cd)pyrene	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
sophorone	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
-Nitrosodiphenylamine	ND	ug/L		10	E62		02/27/17 19:27 / eli-b
2-Nitrophenol	ND	ug/L		10	E6:		02/27/17 19:27 / eli-b
4-Nitrophenol	ND	ug/L		50	E62		02/27/17 19:27 / eli-b
Naphthalene	ND	ug/L		10	E62		02/27/17 19:27 / eli-b
Vaprataiono	ND	ug/L		10	E62		02/27/17 19:27 / eli-b
Pentachiorophenol	ND	ug/L		50	E62		02/27/17 19:27 / eli-b
Phenanthrene		ug/L		10	E62		02/27/17 19:27 / eli-b
Phenol		ug/L		10	E62		02/27/17 19:27 / eli-b
Pyrene		ug/L		10	E62		02/27/17 19:27 / eli-b
1.2.4-Trichiorobenzene		ug/L		10	E62		02/27/17 19:27 / eli-b
2,4,6-Trichlorophenol		ug/L		10	E62		02/27/17 19:27 / eli-b
Surr: 2-Fluorobiphenyi		%REC		28-107	E62		02/27/17 19:27 / eli-b
Surr: 2-Fluorophenol		%REC		20-56	E62		02/27/17 19:27 / eli-b
Surr: Nitrobenzene-d5		%REC		32-94	E62		02/27/17 19:27 / eli-b
Surr: Phenol-d5		%REC		19-45	E62		02/27/17 19:27 / eli-b

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project: Lab ID: 170217005 LFH-1 CO-0121**724** C17020566-001

Client Sample ID: 170217005-01 LFH-1

470047005 04 | 51

Report Date: 03/02/17

Collection Date: 02/16/17 DateReceived: 02/21/17

Matrix: Drinking Water

Analyses	Result Units	Qualifiers I	MCL/ RL QCL Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPO	DUNDS			
Surr: Terphenyl-d14	69.0 %REC	32	122 E625	02/27/17 19:27 / eli-b
			122 E625 130 E625	02/27/17 19:27 / eli-b 02/27/17 19:27 / eli-b

Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the 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	···						An	alytical Run:	R275391
Lab ID: ccv022417	Continuing Ca	ilibration Veri	fication Standa	ırd				02/24	l/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	46.4	ug/L	20	93	70	130			
Benzene	4.80	ug/L	0.50	96	70	130			
Bromobenzene	4,56	ug/L	0.50	91	70	130			
Bromochloromethane	4.64	ug/L	0.50	93	70	130			
Bromodichloromethane	4.08	ug/L	0.50	62	70	130			
Bromoform	4.08	ug/L	0.50	82	70	130			
Bromomethane	5.56	ug/L	0.50	111	70	130			
Carbon disulfide	4.80	ug/L	0.50	96	70	130			
Carbon tetrachloride	3.70	ug/L	0.50	74	70	130			
Chiorobenzene	4.80	ug/L	0.50	96	70	130			
Chlorodibromomethane	4.32	ug/L	0.50	86	70	130			
Chloroethane	4.88	ug/L	0.50	98	70	130			
2-Chloroethyl vinyl ether	3.07	ug/L	1.0	61	70	130			S
Chloroform	4.36	ug/L	0.50	87	70	130			
Chloromethane	4.60	ug/L	0.50	92	70	130			
2-Chlorotoluene	4.84	ug/L	0.50	97	70	130			
4-Chlorotoluene	4.80	ug/L	0.50	96	70	130			
1,2-Dibromoethane	4.40	ug/L	0.50	88	70	130			
Dibromomethane	4.60	ug/L	0.50	92	70	130			
1,2-Dichlorobenzene	4.72	ug/L	0.50	94	70	130			
1,3-Dichlorobenzene	4.84	ug/L	0.50	97	70	130			
1,4-Dichlorobenzene	4.76	ug/L	0.50	95	70	130			
Dichlorodifluoromethane	3.87	ug/L	0.50	77	70	130			
1,1-Dichloroethane	4.40	ug/L	0.50	88	70	130			
1,2-Dichloroethane	3.78	ug/L	0.50	76	70	130			
1,1-Dichloroethene	4.20	ug/L	0.50	84	70	130			
cis-1,2-Dichloroethene	4.72	ug/L	0.50	94	70	130			
trans-1,2-Dichloroethene	4.64	ug/L	0.50	93	70	130			
1,2-Dichioropropane	5.20	ug/L	0.50	104	70	130			
1,3-Dichloropropane	4.64	ug/L	0.50	93	70	130			
2,2-Dichloropropane	3.92	ug/L	0.50	78	70	130			
1,1-Dichloropropene	4.40	ug/L	0.50	88	70	130			
cis-1,3-Dichloropropene	4.56	ug/L	0.50	91	70	130			
trans-1,3-Dichloropropene	4.04	ug/L	0.50	81	70	130			
Ethylbenzene	4.84	ug/L	0.50	97	70	130			
Methyl tert-butyl ether (MTBE)	3.68	ug/L	0.50	74	70	130			
Methyl ethyl ketone	42.8	ug/L	20	86	70	130			
Methyl isobutyl ketone	45.6	ug/L	20	91	70	130			
Methylene chloride	5.44	ug/L	0.50	109	70	130			
Naphthalene	4.88	ug/L	0.50	98	70	130			

### Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Work Order: C17020566

Project: 170217005 LFH-1 CO-0121724

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E624							Ar	nalytical Run:	R275391
Lab ID:	ccv022417	Continuing Ca	alibration Verifica	tion Standa	ard				02/24	/17 09:51
Styrene		4.76	ug/L	0.50	95	70	130			
Tetrachloro	ethene	4.60	ug/L	0.50	92	70	130			
1, 1, 1, 2-Tetr	achloroethane	4.24	ug/L	0.50	85	70	130			
1, 1,2,2-Tetr	achloroethane	4.96	ug/L	0.50	99	70	130			
Toluene		4.96	ug/L	0.50	99	70	130			
Trichloroeth	ene	4.80	ug/L	0.50	96	70	130			
1,1,1-Trichle	proethane	3.75	ug/L	0.50	75	70	130			
1,1,2-Trichle	proethane	4.76	ug/L	0.50	95	70	130			
Trichlorofluc	promethane	3.34	ug/L	0.50	67	70	130			S
1,2,3-Trichic	oropropane	4.20	ug/L	0.50	84	70	130			
Vinyl Acetat	le	4.56	ug/L	1.0	91	70	130			
Vinyl chlorid	le	4.84	ug/L	0.50	97	70	130			
m+p-Xylene	\$	9.76	ug/L	0.50	98	70	130			
o-Xylene		4.76	ug/L	0.50	95	70	130			
Xylenes, To	tal	14.5	ug/L	0.50	97	70	130			
Surr: 1,2-	Dichloroethane-d4			0.50	74	71	139			
Surr: p-Bi	romofluorobenzene			0.50	88	80	127			
Surr: Tolu	lene-d8			0.50	92	80	123			
Method:	E624								Batch:	R275391
Lab ID:	cs022417	Laboratory Co	ntroi Sample			Run: 5971/	A.I_170224A		02/24	/17 10:31
Acetone		41.6	ug/L	20	83	55	144			

Method: E624							Batch: R275391
Lab ID:  cs02241	7 Laboratory C	ontroi Sample		F	Run: 5971A.l_	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	
Bromodichloromethane	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	
Chlorodibromomethan	4.64	u <b>g</b> /L	0.50	93	74	125	
Chloroethane	5.04	ug/L	0.50	101	59	142	
2-Chloroethyl vinyl ethe	2.74	ug/L	1.0	55	36	144	
Chloroform	4.40	ug/L	0.50	88	68	124	
Chloromethane	4.64	ug/L	0.50	93	53	146	
2-Chiorotoluene	5.04	ug/L	0.50	101	75	131	
4-Chlorotoluene	4.68	ug/L	0.50	94	74	129	
1,2-Dibromoethane	4.40	ug/L	0.50	88	76	124	
Dibromomethane	4.76	ug/L	0.50	95	77	125	

### 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: 1cs022417	Laboratory Co	ntrol Sample			Run: 5971	A.I_170224A		02/24	/17 10:31
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	91	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-Tetrachioroethane	4.16	ug/L	0.50	83	78	124			
1,1,2,2-Tetrachioroethane	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	126			
1,1,1-Trichloroethane	3.73	ug/L	0.50	75	63	120			
1,1,2-Trichloroethane	4.68	ug/L	0.50	94	78	124			
Trichiorofluoromethane	3.30	ug/L	0.50	66	72	120			s
1,2,3-Trichloropropane	4.04	ug/L	0.50	81	64	138			•
Vinyl Acetate	4.08	ug/L	1.0	82	31	124			
Vinyl chloride	5.12	ug/L	0.50	102	58	140			
m+p-Xylenes	9.84	ug/L	0.50	98	67	139			
o-Xylene	4.84	ug/L	0.50	97	74	135			
Xylenes, Total	14.7	ug/L	0.50	98	70	137			
Surr: 1,2-Dichloroethane-d4		<del></del>	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	.l_170224A		02/24/	17 11:30
Acetone	ND	ug/L	20			_			
Acetonitrile	ND	ug/L	20						

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

### College Station, TX 888.690.2218 - Gillette, WY 866.686.7175 - Helena, MT 877.472.0711

### **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										
Lab ID: blk022417   Method Blank   Quf. 20	Analyte		Result	Units	RL	%REC Low Limit	High Limit	RPD	RPDLimit	Qual
Activatifies	Method:	E624							Batch:	R275391
Acytomitrite         ND         ug/L         0.50           Benzene         ND         ug/L         0.50           Bromochioromethane         ND         ug/L         0.50           Bromochioromethane         ND         ug/L         0.50           Bromochioromethane         ND         ug/L         0.50           Bromoform         ND         ug/L         0.50           Bromoformethane         ND         ug/L         0.50           Carbon disulfide         ND         ug/L         0.50           Carbon tetrachloride         ND         ug/L         0.50           Chlorodibromomethane         ND         ug/L         0.50           Chlorodibromomethane         ND         ug/L         0.50           Chlorodibromomethane         ND         ug/L         0.50           Chlorodomy (my) ether         ND         ug/L         0.50           Chlorotofuren         ND         ug/L         0.50           2-Chlorotofuren         ND         ug/L         0.50           2-Chlorotofuren         ND         ug/L         0.50           1,2-Dichiorothane         ND         ug/L         0.50           1,2-Dichiorothane         <	Lab ID:	blk022417	Method Blank			Run: 5971A.	I_170224A		02/24	/17 11:30
Benzene         ND         ug/L         0.50           Bromobenzene         ND         ug/L         0.50           Bromodichloromethane         ND         ug/L         0.50           Bromodichloromethane         ND         ug/L         0.50           Bromodichloromethane         ND         ug/L         0.50           Bromodisulfide         ND         ug/L         0.50           Carbon disulfide         ND         ug/L         0.50           Chlorobenzene         ND         ug/L         0.50           Chloromethane         ND         ug/L         0.50           L,2-Dibromoethane         ND         ug/L         0.50           Dibromomethane         ND         ug/L         0.50           L,2-Dichiorobenzene         ND         ug/L<	Acrolein		ND	ug/L	20					
Bromochinormethane   ND	Acrylonitrile	8	ND	ug/L	3.0					
Bromochloromethane         ND         ug/L         0.50           Bromoclohloromethane         ND         ug/L         0.50           Bromodom         ND         ug/L         0.50           Bromodisunfide         ND         ug/L         0.50           Carbon laterabloride         ND         ug/L         0.50           Chlorodenzene         ND         ug/L         0.50           Chlorodelioromomethane         ND         ug/L         0.50           Chlorodelioromomethane         ND         ug/L         0.50           Chlorodelioromomethane         ND         ug/L         0.50           Chloroform         ND         ug/L         0.50           Chloroformethane         ND         ug/L         0.50           L,2-Dichlorobenzane         ND         ug/L         0.50           L,4-Dichlorobenzane         ND	Benzene		ND	ug/L	0.50					
Bromodichloromethane	Bromobenz	zene	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           Chiorodibromomethane         ND         ug/L         0.50           Chloroethy in viryl ether         ND         ug/L         0.50           Chloroethy living ether         ND         ug/L         0.50           Chloroethy living ether         ND         ug/L         0.50           Chloroethy living ether         ND         ug/L         0.50           Chloroethy living ether         ND         ug/L         0.50           Chloroethy living ether         ND         ug/L         0.50           Chloroethy living ether         ND         ug/L         0.50           Chloroethy living ether         ND         ug/L         0.50           Chloroethy living ether         ND         ug/L         0.50           Chloroethy living ether         ND         ug/L         0.50           Labor living ether         ND         ug/L         0.50           Labor living ether         ND         ug/L         0	Bromochio	romethane	ND	ug/L	0.50					
Bromomethane	Bromodich	loromethane	ND	ug/L	0.50					
Carbon disulfide         ND         ug/L         0.50           Carbon tetrachioride         ND         ug/L         0.50           Chlorodibromomethane         ND         ug/L         0.50           Chlorodibromomethane         ND         ug/L         0.50           Chloroform         ND         ug/L         1.0           Chloroform         ND         ug/L         0.50           Chloroform         ND         ug/L         0.50           Chloroformethane         ND         ug/L         0.50           Chlorofoluene         ND         ug/L         0.50           4-Chlorotoluene         ND         ug/L         0.50           4-Chlorotoluene         ND         ug/L         0.50           4-Chlorotoluene         ND         ug/L         0.50           1,2-Dishomeethane         ND         ug/L         0.50           1,2-Dishorotebane         ND         ug/L         0.50           1,3-Dishorotebaneae         ND         ug/L         0.50           Dichlorotebane         ND         ug/L         0.50           1,1-Dishorotebane         ND         ug/L         0.50           1,1-Dishorotebane         ND	Bromoform	1	ND	ug/L	0.50					
Carbon tetrachloride         ND         ug/L         0.50           Chloroderazene         ND         ug/L         0.50           Chloroethyne         ND         ug/L         0.50           Chloroethyne         ND         ug/L         0.50           2-Chloroethyl vinyl ether         ND         ug/L         0.50           Chloromethane         ND         ug/L         0.50           Chlorotoluene         ND         ug/L         0.50           2-Chlorotoluene         ND         ug/L         0.50           4-Chlorotoluene         ND         ug/L         0.50           1,2-Dibromethane         ND         ug/L         0.50           1,2-Dibriorobenzene         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           1,4-Dichlorobenzene         ND         ug/L         0.50           1,4-Dichlorobenzene         ND         ug/L         0.50           1,4-Dichlorobenzene         ND         ug/L         0.50           1,4-Dichlorobenzen	Bromometi	hane	ND	ug/L	0.50					
Chloroberzene         ND         ug/L         0.50           Chlorodibromomethane         ND         ug/L         0.50           Chlorodibrane         ND         ug/L         0.50           2-Chloroform         ND         ug/L         0.50           Chloroform         ND         ug/L         0.50           Chlorotoluene         ND         ug/L         0.50           4-Chlorotoluene         ND         ug/L         0.50           4-Chlorotoluene         ND         ug/L         0.50           4-Chlorotoluene         ND         ug/L         0.50           1,2-Dibromoethane         ND         ug/L         0.50           1,2-Dichlorotehane         ND         ug/L         0.50           1,2-Dichlorotehane         ND         ug/L         0.50           1,3-Dichlorotehane         ND         ug/L         0.50           1,1-Dichlorotehane         ND         ug/L         0.50           1,1-Dichlorotehane         ND         ug/L         0.50           taran-1,2-Dichlorotehane         ND         ug/L         0.50           taran-1,2-Dichlorotehane         ND         ug/L         0.50           taran-1,2-Dichloropropane	Carbon dis	ulfide	ND	ug/L	0.50					
Chlorodibromomethane         ND         ug/L         0.50           Chloroethane         ND         ug/L         0.50           2-Chloroethyl vinyl ether         ND         ug/L         0.50           Chloroform         ND         ug/L         0.50           Chloroethane         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           Dibromoethane         ND         ug/L         0.50           1,2-Dichlorobenzene         ND         ug/L         0.50           1,3-Dichlorobenzene         ND         ug/L         0.50           1,4-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethane         ND         ug/L         0.50           trans-1,2-Dichloroeth	Carbon tetr	rachloride	ND		0.50					
Chlorodibromomethane         ND         ug/L         0.50           Chloroethane         ND         ug/L         0.50           2-Chloroethyl vinyl ether         ND         ug/L         0.50           Chloroform         ND         ug/L         0.50           Chlorobluene         ND         ug/L         0.50           2-Chlorobluene         ND         ug/L         0.50           4-Chlorobluene         ND         ug/L         0.50           1,2-Dibromethane         ND         ug/L         0.50           Dibromomethane         ND         ug/L         0.50           1,3-Dichlorobenzene         ND         ug/L         0.50           1,4-Dichlorobenzene         ND         ug/L         0.50           1,4-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethene         ND         ug/L         0.50           trans-1,2-Dichloroethene         ND         ug/L         0.50           1,2-Dichloropropa	Chlorobenz	zene	ΝD	ug/L	0.50					
Chloroethane         ND         ug/L         0.50           2-Chlorotothy vinyl ether         ND         ug/L         1.0           Chloromethane         ND         ug/L         0.50           Chloromethane         ND         ug/L         0.50           2-Chlorotoluene         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           1,4-Dichlorobenzene         ND         ug/L         0.50           Dichlorodfluoromethane         ND         ug/L         0.50           1,1-Dichlorobenzene         ND         ug/L         0.50           1,1-Dichlorocthane         ND         ug/L         0.50           1,1-Dichlorocthane         ND         ug/L         0.50           1,2-Dichlorocthene         ND         ug/L         0.50           1,2-Dichloro	Chlorodibro	omomethane	ND		0.50					
2-Chloroethyl vinyl ether         ND         ug/L         1.0           Chloroform         ND         ug/L         0.50           Chlorotoluene         ND         ug/L         0.50           2-Chlorotoluene         ND         ug/L         0.50           1,2-Dibromoethane         ND         ug/L         0.50           1,2-Dibromoethane         ND         ug/L         0.50           1,2-Dichlorobenzene         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           1,4-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethane         ND         ug/L         0.50           1,3-Dich	Chloroetha	ne		_						
Chloroform         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           1,3-Dichlorobenzene         ND         ug/L         0.50           1,3-Dichlorothane         ND         ug/L         0.50           1,4-Dichlorothane         ND         ug/L         0.50           1,1-Dichlorothane         ND         ug/L         0.50           1,2-Dichlorothane         ND         ug/L         0.50           1,2-Dichlorothane <t< td=""><td>2-Chloroeth</td><td>nyl vinyl ether</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	2-Chloroeth	nyl vinyl ether								
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           Dichlorodifluoromethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           trans-1,2-Dichloroethane         ND         ug/L         0.50           trans-1,2-Dichloroethane         ND         ug/L         0.50           trans-1,2-Dichloropropane         ND         ug/L         0.50           1,1-Dichloropropane         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           1,1-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroptopane         ND         ug/L         0.50           1,2-Dichloroptopane         ND         ug/L         0.50           1,1-Di	Chlorometh	nane								
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-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethene         ND         ug/L         0.50           1,2-Dichloroethene         ND         ug/L         0.50           1,2-Dichloroethene         ND         ug/L         0.50           1,2-Dichloropropane         ND         ug/L         0.50           1,3-Dichloropropane         ND         ug/L         0.50           1,1-Dichloropropene         ND         ug/L         0.30           1,1-Dichloropropene         ND         ug/L         0.30           1,1-Dichloropropene         ND         ug/L         0.50           1	2-Chlorotol	uene		_						
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           Dichlorodifluoromethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethane         ND         ug/L         0.50           1,2-Dichloropropane         ND         ug/L         0.50           1,2-Dichloropropane         ND         ug/L         0.50           1,3-Dichloropropane         ND         ug/L         0.30           trans-1,3-Dichloropropane         ND         ug/L         0.30	4-Chlorotol	uene								
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           Dichlorodifluoromethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethane         ND         ug/L         0.50           1,1-Dichloroethane         ND         ug/L         0.50           1,2-Dichloroethane         ND         ug/L         0.50           1,2-Dichloropropene         ND         ug/L         0.50           1,2-Dichloropropane         ND         ug/L         0.50           1,3-Dichloropropane         ND         ug/L         0.30           trans-1,3-Dichloropropane         ND         ug/L         0.30           Ethylbenzene         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         Dichlorodifluoromethane       ND       ug/L       0.50         1,1-Dichloroethane       ND       ug/L       0.50         1,2-Dichloroethane       ND       ug/L       0.50         1,1-Dichloroethane       ND       ug/L       0.50         cis-1,2-Dichloroethane       ND       ug/L       0.50         trans-1,2-Dichloroethane       ND       ug/L       0.50         trans-1,2-Dichloropropane       ND       ug/L       0.50         1,2-Dichloropropane       ND       ug/L       0.50         1,3-Dichloropropane       ND       ug/L       0.50         cls-1,3-Dichloropropane       ND       ug/L       0.50         cls-1,3-Dichloropropane       ND       ug/L       0.30         trans-1,3-Dichloropropane       ND       ug/L       0.30         trans-1,3-Dichloropropane       ND       ug/L       0.50         Methyl tert-butyl ether (MTBE)       ND       ug/L       0.50         Methyl isobutyl ketone       ND       ug/L										
1,3-Dichlorobenzene       ND       ug/L       0.50         1,4-Dichlorobenzene       ND       ug/L       0.50         Dichlorodifluoromethane       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-Dichloropropane       ND       ug/L       0.50         1,3-Dichloropropane       ND       ug/L       0.50         1,3-Dichloropropane       ND       ug/L       0.50         cls-1,3-Dichloropropane       ND       ug/L       0.50         cls-1,3-Dichloropropane       ND       ug/L       0.30         trans-1,3-Dichloropropane       ND       ug/L       0.30         trans-1,3-Dichloropropane       ND       ug/L       0.50         Methyl tert-butyl ether (MTBE)       ND       ug/L       0.50         Methyl tert-butyl ether (MTBE)       ND       ug/L       0.50         Methyl isobutyl ketone       ND       ug/L       0.50         Methylene chloride       ND       ug/L	1,2-Dichlore	obenzene								
1,4-Dichlorobenzene       ND       ug/L       0.50         Dichlorodiffuoromethane       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         trans-1,2-Dichloroethene       ND       ug/L       0.50         1,2-Dichloroptopane       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         cls-1,3-Dichloropropene       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 stohure       ND       ug/L       20         Methyl stohure       ND       ug/L       20         Methyl stohure       ND       ug/L       20	-									
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           1,2-Dichloropthane         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           1,1-Dichloropropene         ND         ug/L         0.50           1,1-Dichloropropene         ND         ug/L         0.50           1,1-Dichloropropene         ND         ug/L         0.30           trans-1,3-Dichloropropene         ND         ug/L         0.30           Ethylbenzene         ND         ug/L         0.50           Methyl ether (MTBE)         ND         ug/L         0.50           Methyl tethologide         ND         ug/L         20           Methylene chloride         ND         ug/L         0.50 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
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         1,2-Dichloropthene       ND       ug/L       0.50         1,3-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         cls-1,3-Dichloropropene       ND       ug/L       0.30         trans-1,3-Dichloropropene       ND       ug/L       0.50         Methyl tert-butyl ether (MTBE)       ND       ug/L       0.50         Methyl tert-butyl ether (MTBE)       ND       ug/L       0.50         Methyl setone       ND       ug/L       20         Methyl ketone       ND       ug/L       0.50         ND										
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         cls-1,3-Dichloropropene       ND       ug/L       0.30         trans-1,3-Dichloropropene       ND       ug/L       0.50         Methyl tert-butyl ether (MTBE)       ND       ug/L       0.50         Methyl tert-butyl ether (MTBE)       ND       ug/L       0.50         Methyl sobutyl ketone       ND       ug/L       20         Methyl isobutyl ketone       ND       ug/L       0.50         Naphthalene       ND       ug/L       0.50         Styrene       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-Dichloropropene       ND       ug/L       0.50         1,1-Dichloropropene       ND       ug/L       0.30         cls-1,3-Dichloropropene       ND       ug/L       0.30         trans-1,3-Dichloropropene       ND       ug/L       0.50         Methyl tert-butyl ether (MTBE)       ND       ug/L       0.50         Methyl tert-butyl ether (MTBE)       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										
cis-1,2-Dichloroethene         ND         ug/L         0.50           trans-1,2-Dichloroptopane         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         0.30           cls-1,3-Dichloropropene         ND         ug/L         0.30           trans-1,3-Dichloropropene         ND         ug/L         0.50           Methyl tert-butyl ether (MTBE)         ND         ug/L         0.50           Methyl tetr-butyl ether (MTBE)         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										
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           cls-1,3-Dichloropropene         ND         ug/L         0.30           trans-1,3-Dichloropropene         ND         ug/L         0.50           Methyl benzene         ND         ug/L         0.50           Methyl tetr-butyl ether (MTBE)         ND         ug/L         0.50           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										
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-Dichloropropene       ND       ug/L       0.30         trans-1,3-Dichloropropene       ND       ug/L       0.50         Methyl benzene       ND       ug/L       0.50         Methyl tert-butyl ether (MTBE)       ND       ug/L       0.50         Methyl sethyl ketone       ND       ug/L       20         Methylene chloride       ND       ug/L       0.50         Naphthalene       ND       ug/L       0.50         Styrene       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         cls-1,3-Dichloropropene       ND       ug/L       0.30         trans-1,3-Dichloropropene       ND       ug/L       0.50         Methyl benzene       ND       ug/L       0.50         Methyl etert-butyl ether (MTBE)       ND       ug/L       0.50         Methyl sethyl ketone       ND       ug/L       20         Methylene chloride       ND       ug/L       0.50         Naphthalene       ND       ug/L       0.50         Styrene       ND       ug/L       0.50				_						
2,2-Dichloropropane       ND       ug/L       0.50         1,1-Dichloropropene       ND       ug/L       0.50         cls-1,3-Dichloropropene       ND       ug/L       0.30         trans-1,3-Dichloropropene       ND       ug/L       0.50         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		• •								
1,1-Dichloropropene       ND       ug/L       0.50         cls-1,3-Dichloropropene       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 sethyl 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										
cis-1,3-Dichloropropene         ND         ug/L         0.30           trans-1,3-Dichloropropene         ND         ug/L         0.30           Ethylbenzene         ND         ug/L         0.50           Methyl 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		- Jr Jr		_						
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										
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										
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										
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	-									
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										
Methylene chloride         ND         ug/L         0.50           Naphthalene         ND         ug/L         0.50           Styrene         ND         ug/L         0.50										
Naphthalene         ND         ug/L         0.50           Styrene         ND         ug/L         0.50										
Styrene ND ug/L 0.50	-									
	-	•								
TIP ASIE U.UU	_	ethene								
	. 304311010		110	«Aır						

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

al Laboratories inc

Report Date: 03/02/17
Work Order: C17020566

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E624		<u></u>						Batch:	R27539
Lab ID:	blk022417	Method Blank				Run: 5971/	A.i_170224A		02/24	l/17 11:30
1,1,1,2-Tel	trachloroethane	ND	ug/L	0.50						
1, 1,2,2-Tet	trachloroethane	ND	ug/L	0.50						
Toluene		ND	ug/L	0.50						
Trichloroet	hene	ND	ug/L	0.50						
i,1,1-Trich	loroethane	ND	ug/L	0.50						
1,1,2-Trich	loroethane	ND	ug/L	0.50						
Frichloroflu	roromethane	ND	ug/L	0.50						
1,2,3-Trich	ioropropane	ND	ug/L	0.50						
/inyl Aceta	ate	ND	ug/L	1.0						
/inyl chlori	ide	ND	ug/L	0.40						
n+p-Xylen	es	ND	ug/L	0.50						
-Xylene		ND	ug/L	0.50						
(ylenes, T	otal	ND	ug/L	0.50						
Surr: 1,2	2-Dichloroethane-d4			0.50	74	71	139			
Surr: p-E	Bromofluorobenzene			0.50	90	80	127			
Surr: To	luene-d8			0.50	94	80	123			
ab ID:	b17021110-001bms	Sample Matrix	Spike			Run: 5971	A.I_170224A		02/24	/17 20:47
crolein		ND	ug/L	20	0	16	233			S 1
crylonitrile	ė	48.8	ug/L	20	98	76	127			
-Chloroeti	hyl vinyl ether	3.44	ug/L	1.0	69	36	144			
Surr: 1,2	l-Dichloroethane-d4			0.50	80	71	139			
Surr: p-E	Bromofluorobenzene			0.50	95	80	127			
Surr: Tol	luene-d8			0.50	100	80	123			
	s a known very reactive compour mple matrix.	nd. The recovery of t	his compound was n	ormal in th	e Laborat	ory Control Sar	mple (LCS). The	compound	appears to hav	ve reacted
.ab ID:	b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 5971A	\.[_170224A		02/24	/17 21:16
\crolein		ND	ug/L	20	0	16	233		20	S 1
crylonitriie	9	48.8	ug/L	20	98	76	127	0.0	20	
-Chloroett	nyl vinyl ether	3.66	ug/L	1.0	73	36	144	6.1	20	
Surr: 1,2	-Dichloroethane-d4			0.50	81	71	139			
Surr. p-E	3romofluorobenzene			0.50	96	80	127			
Surr: Tol	uene-d8			0.50	99	80	123			
<ul><li>1 = This is with the sar</li></ul>	s a known very reactive compour mple matrix.	nd. The recovery of t	his compound was n	ormal in th	e Laborat	ory Control Sar	nple (LCS). The	compound	appears to hav	e reacted
ab ID:	b17021110-001bms	Sample Matrix	Spike			Run: 5971A	170224A		02/24	/17 18:21
cetone		40.4	ug/L	20	81	55	144			
Acetonitrile	1	66.0	ug/L	20	132	54	142			
Benzene		4.60	ug/L	0.50	92	73	122			
Bromobenz		4.60	ug/L	0.50	92	74	129			
Bromochlo	romethane	4.56	u <b>g</b> /L	0.50	91	66	120			
اطمئامه مسمد	loromethane	4,36	ug/L	0.50	87	74	128			
N OF TOURCH										
3romoform		4.40	ug/L	0.50	88	66	128			

### 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	Quai
Method:	E624					-			Batch:	R275391
Lab ID:	b17021110-001bms	Sample Matri	k Spike			Run: 5971	A.I_170224A		02/24	/17 18:21
Carbon dis	ulfide	5.12	ug/L	0.50	102	46	145			
Carbon tet	rachloride	3.59	ug/L	0.50	72	75	125			s
Chlorobena	zene	4.52	ug/L	0.50	90	80	123			
Chlorodibre	omomethane	4.52	ug/L	0.50	90	74	125			
Chloroetha	ne	5.40	ug/L	0.50	108	59	142			
Chloroform	1	4.68	ug/L	0.50	82	68	124			
Chlorometi	nane	4.64	ug/L	0.50	93	53	146			
2-Chlorotol	uene	4.88	ug/L	0.50	98	75	131			
4-Chlorotol	uene	4.68	ug/L	0.50	94	74	129			
1,2-Dibrom	oethane	4.16	ug/L	0.50	83	76	124			
Dibromome	ethane	4.64	ug/L	0.50	93	77	125			
1,2-Dichlor	obenzene	4.64	ug/L	0.50	93	74	124			
1,3-Dichlor	obenzene	4.88	ug/L	0.50	98	77	122			
1,4-Dichlor	obenzene	4.76	ug/L	0.50	91	76	126			
Dichlorodif	luoromethane	4.32	ug/L	0.50	86	56	146			
1,1-Dichlor	oethane	4.24	ug/L	0.50	85	74	133			
1,2-Dichlor	oethane	3.48	ug/L	0.50	70	75	129			S
1,1-Dichlor	oethene	4.12	ug/L	0.50	82	74	132			
cis-1,2-Dicl	hloroethene	4.48	ug/L	0.50	90	81	122			
trans-1,2-D	ichloroethene	4.64	ug/L	0.50	93	79	143			
1,2-Dichlor	opropane	4.92	ug/L	0.50	98	75	126			
1,3-Dichlor	opropane	4.24	ug/L	0.50	85	71	136			
2,2-Dichlor	opropane	3.60	ug/L	0.50	72	68	142			
1,1-Dichlor	opropene	4.04	ug/L	0.50	81	70	131			
cis-1,3-Dict	nloropropene	4.08	ug/L	0.50	82	74	135			
trans-1,3-D	ichloropropene	3.97	ug/L	0.50	79	76	149			
Ethylbenze	ne	4.64	ug/L	0.50	93	72	130			
Methyl tert-	butyl ether (MTBE)	3.63	ug/L	0.50	73	72	120			
Methyl ethy		44.4	ug/L	20	89	45	130			
Methyl isob	utyl ketone	51.2	ug/L	20	102	58	135			
Methylene o	chloride	5.44	ug/L	0.50	109	66	142			
Naphthalen	е	4.84	ug/L	0.50	97	69	124			
Styrene		4.56	ug/L	0.50	91	80	124			
Tetrachloro	ethene	4.44	ug/L	0.50	89	72	131			
1,1,1,2-Tetr	achloroethane	3.95	ug/L	0.50	79	78	124			
	achloroethane	4.88	ug/L	0.50	98	68	137			
Toluene		4.88	ug/L	0.50	98	72	135			
Trichloroeth		4.56	ug/L	0.50	91	85	126			
1,1,1-Trichi		3.51	ug/L	0.50	70	63	120			
1,1,2-Trichle		4.52	ug/L	0.50	90	78	124			
	oromethane	3.29	ug/L	0.50	66	72	120			S
	oropropane	3.90	ug/L	0.50	78	64	138			
Vinyl Acetal	te	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 Matrix	Spike			Run: 5971	A.I_170224A		02/24	/17 18:2
/inyl chloride	5.12	ug/L	0.50	102	58	140			
n+p-Xylenes	9.32	ug/L	0.50	93	67	139			
p-Xylene	4.44	ug/L	0.50	89	74	135			
Kylenes, 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			
_ab ID: b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 5971	A.I_170224A		02/24	/17 18:5
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	
3romochioromethane	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	
iromoform	4.80	ug/L	0.50	96	66	128	8.7	20	
romomethane	6.00	ug/L	0.50	120	51	123	2.0	20	
arbon disulfide	5.20	ug/L	0.50	104	46	145	1.6	20	
arbon 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	
hloroethane	5.32	ug/L	0.50	106	59	142	1.5	20	
Chloroform	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	
-Chlorotoluene	5.20	ug/L	0.50	104	75	131	6.3	20	
-Chlorotoluene	5.04	ug/L	0.50	101	74	129	7.4	20	
,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	
,2-Dichlorobenzene	5.04	ug/L	0.50	101	74	124	8.3	20	
,3-Dichlorobenzene	5.20	ug/L	0.50	104	77	122	6.3	20	
,4-Dichlorobenzene	5.12	ug/L	0.50	98	76	126	7.3	20	
Dichlorodifluoromethane	4.36	ug/L	0.50	87	56	146	0.9	20	
,1-Dichloroethane	4.68	ug/L	0.50	94	74	133	9.9	20	
,2-Dichloroethane	3.76	ug/L	0.50	75	75	129	7.8	20	
,1-Dichloroethene	4.44	ug/L	0.50	89	74	132	7.5	20	
is-1,2-Dichloroethene	4.88	ug/L	0.50	98	81	122	8.5	20	
ans-1,2-Dichioroethene	5.12	ug/L	0.50	102	79	143	9.8	20	
,2-Dichloropropane	5.24	ug/L	0.50	105	75	126	6.3	20	
,3-Dichloropropane	4.64	ug/L	0.50	93	71	136	9.0	20	
,2-Dichloropropane	3.96	ug/L	0.50	79	68	142	9.6	20	
,1-Dichloropropene	4.44	ug/L	0.50	89	70	131	9.4	20	
is-1,3-Dichloropropene	4.40	ug/L	0.50	88	74	135	7.5	20	
rans-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

Report Date: 03/02/17

**Project:** 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result U	nits RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch:	R275391
Lab ID: b17021110-001bmsd	Sample Matrix Spi	ke Duplicate		Run: 5971	A.I_170224A		02/24	/17 18:50
Ethylbenzene	5.00 սջ	J/L 0.50	100	72	130	7.5	20	
Methyl tert-butyl ether (MTBE)	3.83 სე	J/L 0.50	77	72	120	5.5	20	
Methyl ethyl ketone	46.0 ug	J/L 20	92	45	130	3.5	20	
Methyl isobutyl ketone	51.2 ևջ	J/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 นรู	J/L 0.50	111	69	124	14	20	
Styrene	4.84 կջ	J/L 0.50	97	80	124	6.0	20	
Tetrachloroethene	4.72 ug	y/L 0.50	94	72	131	6.1	20	
1,1,1,2-Tetrachioroethane	4.20 ug	/L 0.50	84	78	124	6.1	20	
1,1,2,2-Tetrachloroethane	5.20 นอ	/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-Trichloroethane	4.76 ug	/L 0.50	95	78	124	5.2	20	
Trichlorofluoromethane	3.36 სე	/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 นธ	/L 0.50	102	58	140	8.0	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			

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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

Method: E625  Lab ID: MB-107004  Acenaphthene Acenaphthylene Anthracene Azobenzene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether	Method Blank ND						Batch	n: 107004
Acenaphthene Acenaphthylene Anthracene Azobenzene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether								
Acenaphthylene Anthracene Azobenzene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethyl)Ether	ND			Run: SV	5973N2.I_170227E	3	02/27	/17 18:24
Anthracene Azobenzene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethyl)Ether		ug/L	10		_			
Azobenzene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethyl)Ether	ND	ug/L	10					
Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethyl)Ether	ND	ug/L	10					
Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether	ND	ug/L	10					
Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethyl)Ether	ND	ug/L	10					
Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether	ND	ug/L	10					
Benzo(k)fiuoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether	ND	ug/L	10					
4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether	ND	ug/L	10					
Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether	ND	ug/L	10					
Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether	ND	ug/L	10					
4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether	ND	ug/L	10					
bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether	ND	ug/L	10					
bis(-2-chloroethyl)Ether	ND	ug/L	10					
	ND	ug/L	10					
bis(2-chloroisopropyl)Ether	ND	ug/L	10					
2-Chloronaphthalene	ND	ug/L	10					
2-Chlorophenol	ND	ug/L	10					
4-Chlorophenyl phenyl ether	ND	ug/L	10					
Chrysene	ND	ug/L	10					
Diethyl phthalate	ND	ug/L	10					
Di-n-butyl phthalate	ND	ug/L	10					
1,2-Dichlorobenzene	ND	ug/L	10					
1,3-Dichlorobenzene	ND	ug/L	10					
1,4-Dichtorobenzene	ND	ug/L	10					
3,3'-Dichiorobenzidine	ND	ug/L	10					
2,4-Dichiorophenol	ND	ug/L	10					
Dimethyl phthalate	ND	ug/L	10					
Di-n-octyl phthalate	ND	ug/L	10					
Dibenzo(a,h)anthracene	ND	ug/L	10					
2,4-Dimethylphenol	ND	ug/L	10					
4,6-Dinitro-2-methylphenol	ND	ug/L	50					
2,4-Dinitrophenol	ND	ug/L	50					
2,4-Dinitrotoluene	ND	ug/L	10					
2,6-Dinitrotoluene	ND	ug/L	10					
bis(2-ethylhexyl)Phthalate	ND	ug/L	10					
Fluoranthene	ND	ug/L	10					
Fluorene	ND	ug/L	10					
Hexachlorobenzene	ND	ug/L	10					
Hexachlorobutadiene	ND	ug/L	10					
Hexachlorocyclopentadiene	ND	ug/L	10					
Hexachioroethane	ND	ug/L	10					
Indeno(1,2,3-cd)pyrene	170	~A₁ ⊏	10					
			10					
Isophorone	ND ND	ug/L ug/L	10 10					

Qualiflers:

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 U	Jnits .	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625								Batch	: 107004
Lab ID: MB-107004	Method Blank				Run: SV59	73N2.I_170227B		02/27/	17 18:24
n-Nitrosodimethylamine	ND u	ıg/L	10						
n-Nitroso-di-n-propylamine	ND t	ıg/L	10						
n-Nitrosodiphenylamine	ND L	g/L	10						
2-Nitrophenol	ND L	g/L	10						
4-Nitrophenol	ND u	g/L	50						
Naphthalene	ND u	g/L	10						
Nitrobenzene		g/L	10						
Pentachlorophenol		g/L	50						
Phenanthrene		g/L	10						
Phenol		g/L	10						
Pyrene		g/L	10						
1.2.4-Trichlorobenzene		g/L	10						
2,4,6-Trichlorophenol		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	l Sample			Run: SV59	73N2.I_1 <b>70227B</b>		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		g/L	10	79	56	100			
Benzo(a)anthracene		g/L	10	84	62	114			
Benzo(a)pyrene		g/L	10	80	62	108			
Benzo(b)fluoranthene		g/L	10	89	48	127			
Benzo(g,h,i)perylene		g/L	10	82	62	121			
Benzo(k)fluoranthene		g/L	10	79	55	111			
4-Bromophenyl phenyl ether		g/L	10	83	58	105			
Butylbenzylphthalate		g/L	10	92	60	113			
4-Chloro-3-methylphenol		g/L	10	66	53	92			
bls(-2-chloroethoxy)Methane		g/L	10	74	50	92			
bis(-2-chloroethyl)Ether		g/L	10	63	44	82			
bis(2-chioroisopropyl)Ether		g/L	10	61	56	87			
2-Chloronaphthalene		g/L	10	75	56	95			
2-Chlorophenol		g/L	10	60	47	76			
4-Chlorophenyl phenyl ether		g/L	10	76	58	99			
		g/L	10	82	63	106			
Chrysene		e· —							
Chrysene Diethyl phthalate		n/L	10	79	58	103			
Chrysene Diethyl phthalate Dl-n-butyl phthalate	78.6 u	g/L g/L	10 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						-		Batcl	n: 107004
Lab ID: LCS-107004	Laboratory Co	ntrol Sample			Run: SV59	73N2.I_170227B		02/27	/17 18:55
1,3-Dichlorobenzene	60.2	ug/L	10	60	41	79			
1,4-Dichlorobenzene	61.4	ug/L	10	61	42	79			
3,3'-Dichlorobenzidine	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	ug/L	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	ug/L	10	76	60	107			
bis(2-ethylhexyl)Phthalate	88.6	ug/L	10	89	56	108			
Fluoranthene	83.8	ug/L	10	84	63	110			
Fluorene	77.4	ug/L	10	77	60	99			
Hexachlorobenzene	78.2	ug/L	10	78	57	103			
Hexachlorobutadiene	67.5	ug/L	10	67	39	83			
Hexachlorocyclopentadiene	68.4	ug/L	10	68	39	91			
Hexachloroethane	59.6	ug/L	10	60	37	75			
Indeno(1,2,3-cd)pyrene	82.0	ug/L	10	82	59	109			
Isophorone	67.1	ug/L	10	67	42	102			
n-Nitrosodimethylamine	36.9	ug/L	10	37	20	45			
n-Nitroso-di-n-propylamine	71.5	ug/L	10	71	49	98			
n-Nitrosodiphenylamine	90.0	u <b>g</b> /L	10	90	61	108			
2-Nitrophenol	68.0	ug/L	10	68	51	96			
4-Nitrophenol	18.3	ug/L	50	18	15	36			
Naphthalene	71.6	ug/L	10	72	48	96			
Nitrobenzene	65.0	ug/L	10	65	51	91			
Pentachiorophenol	70.6	ug/L	50	71	53	109			
Phenanthrene	80.5	u <b>g/</b> L	10	81	58	104			
Phenol	35.4	ug/L	10	35	27	45			
Pyrene	89.3	ug/L	10	89	64	108			
1,2,4-Trichlorobenzene	67.3	ug/L	10	67	49	85			
2,4,6-Trichlorophenol	64.9	ug/L	10	65	47	99			
Surr: 2-Fluorobiphenyl			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	Spike			Run: SV597	3N2.I_170227B		02/27/	17 20:29
Acenaphthene	86.4	ug/L	10	86	58	99			

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Report Date: 03/02/17 Project: 170217005 LFH-1 CO-0121724 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	7/17 20:29
Acenaphth	ylene	83.0	ug/L	10	83	57	96			
Anthracene	<b>?</b>	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	ıoranthene	80.4	ug/L	10	80	48	127			
Benzo(g,h,i	i)peryiene	80.5	ug/L	10	81	62	121			
Benzo(k)flu	oranthene	83.5	ug/L	10	83	55	111			
4-Bromoph	enyl phenyl ether	80.4	ug/L	10	80	58	105			
Butylbenzy	iphthalate	99.7	ug/L	10	100	60	113			
4-Chioro-3-	-methylphenol	77.0	ug/L	10	77	53	92			
bis(-2-chlor	roethoxy)Methane	77.3	ug/L	10	77	50	92			
bls(-2-chlor	oethyl)Ether	66.7	ug/L	10	67	44	82			
bis(2-chlore	oisopropyi)Ether	66.6	ug/L	10	67	56	87			
2-Chlorona	phthalene	79.8	ug/L	10	80	56	95			
2-Chloroph	enol	64.1	ug/L	10	64	47	76			
4-Chloroph	enyl phenyl ether	84.5	ug/L	10	85	58	99			
Chrysene		85.9	ug/L	10	86	63	106			
Diethyl phth	halate	85.4	ug/L	10	85	58	103			
Di-n-butyl p	hthalate	96.0	ug/L	10	96	61	110			
1,2-Dichlor	obenzene	66.1	ug/L	10	66	43	81			
1,3-Dichlore	obenzene	61.9	ug/L	10	62	41	79			
1,4-Dichlore	obenzene	61.8	ug/L	10	62	42	79			
3,3'-Dichlor	robenzidine	69.1	ug/L	10	69	51	93			
2,4-Dichlor	opheno!	68.4	ug/L	10	68	49	90			
Dimethyl ph	nthalate	81.4	ug/L	10	81	58	104			
Di-n-octyl p	hthalate	90.6	ug/L	10	91	56	110			
Dibenzo(a,i	h)anthracene	80.0	ug/L	10	80	61	111			
2,4-Dimethy	ylphenol	69.2	ug/L	10	69	45	87			
4,6-Dinitro-	2-methylphenol	58.9	ug/L	50	59	37	105			
2,4-Dinitrop	henol	<del>5</del> 4.8	ug/L	50	55	27	81			
2,4-Dinitrote	oluene	82.5	ug/L	10	83	63	110			
2,6-Dinitrote	cluene	80.8	ug/L	10	81	60	107			
bis(2-ethylh	exyl)Phthalate	92.0	ug/L	10	92	56	108			
Fluoranther	ne	88.0	ug/L	10	88	63	110			
Fluorene		80.1	ug/L	10	80	60	99			
Hexachloro	benzene	82.5	ug/L	10	83	57	103			
Hexachioro	butadiene	69.0	ug/L	10	69	39	83			
Hexachloro	cyclopentadiene	68.1	ug/L	10	68	39	91			
Hexachioro	ethane	65.6	ug/L	10	66	37	75			
Indeno(1,2,	3-cd)pyrene	82.3	ug/L	10	82	59	109			
Isophorone	** *	71.3	ug/L	10	71	42	102			
	methylamine	41.5	ug/L	10	41	20	45			

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17
Work Order: C17020566

Project: 170217005 LFH-1 CO-0121724

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625		·						Batch	: 107004
Lab ID: B17021688-00	1CMS Sample Matri	x Spike			Run: SV59	73N2.I_170227B		02/27/	/17 20:29
n-Nitroso-di-n-propylamine	76.9	u <b>g/</b> 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			
Pentachlorophenol	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	99			
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-Tribromopheno	ol .		10	75	21	130			
Lab ID: B17021688-003	•	-				73N2.I_170227B		02/27/	17 21:31
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)perylene	78.5	ug/L	10	79	62	121			
Benzo(k)fluoranthene	83.1	ug/L	10	83	55	111			
4-Bromophenyl phenyl ether	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)Methane	69.6	ug/L	10	70	50	92			
bis(-2-chloroethyl)Ether	58.4	ug/L	10	58	44	82			
bis(2-chloroisopropyl)Ether	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 ether	82.9	ug/L	10	83	58	99			
Chrysene	82.0	ug/L	10	82	63	106			
Diethyl phthalate	80.2	ug/L	10	80	58	103			
	86.9	ug/L	10	87	61	110			
Di-n-butyl phthalate		-							
Di-n-butyl phthalate 1,2-Dichlorobenzene 1,3-Dichlorobenzene	61.5 59.3	ug/L ug/L	10 10	62 59	43 41	81 79			

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	n: 107004
Lab ID: B17021688-003CMS	Sample Matrix	Spike			Run: SV59	73N2.I_170227E	3	02/27	/17 21:31
1,4-Dichlorobenzene	57.9	ug/L	10	58	42	79			
3,3'-Dichlorobenzidine	52.9	ug/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			
bis(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			
Pentachiorophenol	66.8	ug/L	50	67	53	109			
Phenanthrene	79.7	ug/L ug/L	10	80	58	109			
Phenol	33.9	_	10	34	27	45			
		ug/L	10						
Pyrene	81.2	ug/L		81 71	64	108			
1,2,4-Trichlorobenzene	71.3	ug/L	10		49	85			
2,4,6-Trichlorophenol	63.8	ug/L	10	64	47	99			
Surr: 2-Fluorobiphenyl			10	45	28	107			
Surr: 2-Fluorophenol			10	37	20	56			
Surr: Nitrobenzene-d5			10	62	32	94			
Surr: Phenol-d5			10	31	19	45			
Surr: Terphenyl-d14 Surr: 2,4,6-Tribromophenol			10 10	64 55	32 21	122 130			
Lab ID: MB-107004	Method Blank					73N2.I_170228A		02/29	17 12:11
Benzidine	ND ND	ual	40		Null. 5759	1 0142.1_11 0220A		UZ1Z0/	17 12.11
Derizatife	מא	ug/L	10						

Qualifiers:

RL - Analyte reporting limit.

College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

### **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:	E825							Batcl	h: 107004
Lab ID: Benzidine	LCS-107004	Laboratory Control Sample 63.4 ug/L	10	63	Run: SV59 10	73N2.I_170228A 100		02/28	/17 12:42
Lab ID: Benzidine	B17021688-001CMS	Sample Matrix Spike 25.8 ug/L	20	26	Run: SV59 10	73N2.I_170228A 100		02/28	/17 14:16
Lab ID: Benzidine	B17021688-003CMS	Sample Matrix Spike 28.5 ug/L	20	28	Run: SV59 10	73N2.l_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

CV_2 Continuing Ca 75.7 75.2 78.7 79.8 78.0 78.0 78.6 75.3 73.2 74.4 84.4 77.2 98 79.4 80.8 77.8 70.3 80.3 72.9	alibration Verifug/Lug/Lug/Lug/Lug/Lug/Lug/Lug/Lug/Lug/L	10 10 10 10 10 10 10 10 10 10 10 10	101 100 105 106 104 104 105 100 98 99 113 103 106 108	80 80 80 80 80 80 80 80 80	120 120 120 120 120 120 120 120 120 120	An	nalytical Run: 02/27	R275528 /17 15:18
75.7 75.2 78.7 79.8 78.0 78.0 78.6 75.3 73.2 74.4 84.4 77.2 89.8 77.8 70.3 80.3 72.9	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10 10 10 10 10 10	101 100 105 106 104 104 105 100 98 99 113 103 106 108	80 80 80 80 80 80 80 80 80	120 120 120 120 120 120 120 120 120		02/27	/17 15:18
75.7 75.2 78.7 79.8 78.0 78.0 78.6 75.3 73.2 74.4 84.4 77.2 86 79.4 80.8 77.8 70.3 80.3 72.9	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10 10 10 10 10 10	100 105 106 104 104 105 100 98 99 113 103 106 108	80 80 80 80 80 80 80 80 80	120 120 120 120 120 120 120 120 120			
78.7 79.8 78.0 78.0 78.6 75.3 73.2 97 74.4 84.4 77.2 98 79.4 80.8 77.8 70.3 80.3 72.9	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10 10 10 10 10	105 106 104 104 105 100 98 99 113 103 106 108	80 80 80 80 80 80 80 80	120 120 120 120 120 120 120 120 120			
79.8 78.0 78.0 78.6 75.3 73.2 87 74.4 84.4 77.2 89 80.8 77.8 70.3 80.3 87.9	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10 10 10 10 10	106 104 104 105 100 98 99 113 103 106 108	80 80 80 80 80 80 80 80	120 120 120 120 120 120 120 120			
78.0 78.0 78.6 75.3 73.2 74.4 84.4 77.2 9.4 80.8 77.8 70.3 80.3 72.9	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10 10 10 10	104 105 100 98 99 113 103 106 108	80 80 80 80 80 80 80	120 120 120 120 120 120 120			
78.0 78.6 75.3 73.2 74.4 84.4 77.2 9.4 80.8 77.8 70.3 80.3 72.9	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10 10 10 10	104 105 100 98 99 113 103 106 108	80 80 80 80 80 80	120 120 120 120 120 120			
78.6 75.3 73.2 74.4 84.4 77.2 80.8 77.8 70.3 80.3 87.9	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10 10 10	105 100 98 99 113 103 106 108	80 80 80 80 80 80	120 120 120 120 120 120			
75.3 73.2 74.4 84.4 77.2 8e 79.4 80.8 77.8 70.3 80.3 9r 72.9	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10 10 10	100 98 99 113 103 106 108	80 80 80 80 80	120 120 120 120 120			
73.2 74.4 84.4 77.2 80.8 77.8 70.3 80.3 87.9	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10 10	98 99 113 103 106 108	80 80 80 80	120 120 120 120			
74.4 84.4 77.2 98.8 79.4 80.8 77.8 70.3 80.3 97.9	ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10	99 113 103 106 108	80 80 80 80	120 120 120			
84.4 77.2 79.4 80.8 77.8 70.3 80.3 87.3	ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10	113 103 106 108	80 80 80	120 120			
84.4 77.2 79.4 80.8 77.8 70.3 80.3 87.3	ug/L ug/L ug/L ug/L ug/L	10 10 10 10	103 106 108	80 80	120			
79.4 80.8 77.5 70.3 80.3 87	ug/L ug/L ug/L ug/L	10 10 10	106 108	80				
80.8 77.8 70.3 80.3 er 72.9	ug/L ug/L ug/L ug/L	10 10	108		120			
80.8 77.8 70.3 80.3 r 72.9	ug/L ug/L ug/L	10						
70.3 80.3 r <b>72.</b> 9	ug/L ug/L		104	80	120			
70.3 80.3 r <b>72.</b> 9	ug/L	10	104	80	120			
r 72.9			94	80	120			
		10	107	80	120			
	ug/L	10	97	80	120			
75.0	ug/L	10	100	80	120			
75.7	ug/L	10	101	80	120			
81.6	ug/L	10	109	80	120			
72.7	ug/L	10	97	80	120			
77.8	ug/L	10	104	80	120			
74.9	ug/L	10	100	80	120			
75,8	ug/L	10	101	80	120			
74.8	ug/L	10	100	80	120			
75.3	ug/L	10	100	80	120			
83.5	ug/L	10	111	80	120			
74.8	ug/L	10	100	80	120			
73.0	ug/L	10	97	80	120			
71.3	ug/L	50	95	80	120			
69.4	<del>-</del>		93					
79.4	_		106					
	-							
	_							
•		69.4 ug/L 79.4 ug/L 79.4 ug/L 78.1 ug/L 84.4 ug/L 76.0 ug/L 77.8 ug/L 73.8 ug/L 71.9 ug/L 73.1 ug/L 77.6 ug/L 77.6 ug/L 75.6 ug/L	69.4 ug/L 50 79.4 ug/L 10 78.1 ug/L 10 84.4 ug/L 10 76.0 ug/L 10 77.8 ug/L 10 73.8 ug/L 10 71.9 ug/L 10 73.1 ug/L 10 77.6 ug/L 10 77.6 ug/L 10 75.6 ug/L 10	69.4 ug/L 50 93 79.4 ug/L 10 106 78.1 ug/L 10 104 84.4 ug/L 10 112 76.0 ug/L 10 101 77.8 ug/L 10 104 73.8 ug/L 10 98 71.9 ug/L 10 96 73.1 ug/L 10 97 77.6 ug/L 10 103 75.6 ug/L 10 101	69.4 ug/L 50 93 80 79.4 ug/L 10 106 80 78.1 ug/L 10 104 80 84.4 ug/L 10 112 80 76.0 ug/L 10 101 80 77.8 ug/L 10 104 80 73.8 ug/L 10 98 80 71.9 ug/L 10 96 80 77.6 ug/L 10 97 80 77.6 ug/L 10 103 80 75.6 ug/L 10 101 80	69.4 ug/L 50 93 80 120 79.4 ug/L 10 106 80 120 78.1 ug/L 10 104 80 120 84.4 ug/L 10 112 80 120 76.0 ug/L 10 101 80 120 77.8 ug/L 10 104 80 120 73.8 ug/L 10 98 80 120 71.9 ug/L 10 96 80 120 77.6 ug/L 10 97 80 120 77.6 ug/L 10 103 80 120 75.6 ug/L 10 101 80 120	69.4 ug/L 50 93 80 120 79.4 ug/L 10 106 80 120 78.1 ug/L 10 104 80 120 84.4 ug/L 10 112 80 120 76.0 ug/L 10 101 80 120 77.8 ug/L 10 104 80 120 73.8 ug/L 10 98 80 120 71.9 ug/L 10 96 80 120 77.6 ug/L 10 97 60 120 77.6 ug/L 10 103 80 120 75.6 ug/L 10 103 80 120 75.6 ug/L 10 101 80 120	69.4 ug/L 50 93 80 120 79.4 ug/L 10 106 80 120 78.1 ug/L 10 104 80 120 84.4 ug/L 10 112 80 120 76.0 ug/L 10 101 80 120 77.8 ug/L 10 104 80 120 73.8 ug/L 10 98 80 120 71.9 ug/L 10 96 80 120 77.6 ug/L 10 103 80 120 77.6 ug/L 10 103 80 120 75.6 ug/L 10 101 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 RI	PDLimit	Qual
Method: E625							Analy	tical Run:	R27552
Lab ID: 27-Feb-17_CCV_2	Continuing Ca	libration Vertfi	cation Standa	ırd				02/27	7/17 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							Analy	tical Run:	R275577
Lab ID: 28-Feb-17_CCV_2	Continuing Ca	libration Verifi	cation Standa	rd				02/28	/17 11:39
Benzidine	89.5	ug/L	10	119	80	120			

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	bration Verification	on Standa	ırd					/17 08:30
1,4-Dioxane		105	ug/L	1.0	105	80	120			
Method:	SW8260M				_				Batch	: 107003
Lab ID: 1,4-Dioxane	LCS-107003	Laboratory Con 106	itrol Sample ug/L	1.0	106	Run: VOA5 70	973A.I_170227A 130		02/27	17 09:22
Lab ID: 1,4-Dioxane	MB-107003	Method Blank ND	ug/L	1.0		Run: VOA5	973A.I_170227A		02/27	17 09:44
Lab ID: 1,4-Dioxane	C17020566-001BMS	Sample Matrix	Spike ug/L	2.0	100	Run: VOA5	973A.I_170227A 130		02/27/	17 11:3 <b>7</b>
Lab ID: 1,4-Dioxane	C17020566-001BMSD	Sample Matrix 9	Spike Duplicate ug/L	2.0	103	Run: VOA5	973A.I_170227A 130	3.0	<b>02/27</b> / 20	17 11:59

### **Work Order Receipt Checklist**

### Colorado Analytical Laboratories Inc C17020566

Login completed by:	Dorian Quis		Dat	e Received: 2/21/2017	
Reviewed by:	Kasey Vidick		F	Received by: dcq	
Reviewed Date:	2/21/2017		C	arrier name: Ground	
Shipping container/cooler in	good condition?	Yes 🗸	No 🔲	Not Present	
Custody seals intact on all s	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 who	en 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	indicated test?	Yes 🔽	No 🗌		
All samples received within h (Exclude analyses that are co such as pH, DO, Res CI, Sul	insidered field parameters	Yes 🗸	No 🗀		
Temp Blank received in all sh	nipping container(s)/cooler(s)?	Yes 🗌	No 🗹	Not Applicable	
Container/Temp Blank temps	rature:	6.8°C Blue ica			
Water - VOA vials have zero	headspace?	Yes 🗸	No 🗌	No VOA viats submitted	
Water - pH acceptable upon i	receipt?	Yes	No 🗌	Not Applicable	
Standard Danasti	- Dragadona				

### 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

### Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name
Company Name: Colorado Analytical	Company Name: Same As Report To	170217005
Contact Name: Stuart Niclson	Contact Name:	Lfb-1 Co-0121724
Address: 240 S. Main St.	Address:	Task Number (Lab Use Only)
City Brighton State CQ Zip80601	City_State_Zip	
Phone: 3036592313 Fax: 3036592315	Phone: Fax:	
Email: stuartnielson@coloradolab.com	Email:	Disposal Date(Lab Use Only)
Sample Collector: Stephanic Schwenke	PO No.:	

Colorado Analytical	240 South Main Street Brighton, CO 80601
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240 South Main Street
Brighton, CO 80601
Lakewood Lab
12860 W. Cedar Dr., Suite 100A
Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 WWW.coloradolab.com

1 1940 CUE								Senis Present Yes II No FEO	Received By:  Date/Time:	12000 Julius 2/21/17 1150
	625 SOCs 1,4 Dioxane								CS Charge   Date/Time:	-   {
	No. of Containers Grab or (Check One Only) Composite Composite	\[ \textsquare \te							Relinguished By:	
	Water						C/K Tudos		Deliver	
The second second second	Plant Tissue Other  Drinking Water								Date/Time:	
The same of the last	000								Received By:	
Contract Con	Soli Sludge Compost	170217005-01 LFH-1					nergy Labs		Date/Filme:	1600
	Waste Water Ground Water Gurface Water	17021					Instructions: Send via UPS to Energy Lahs		hed By:	
National Property lies	Wash Groun Surfa	2/16/17					Instructi	6	Relingui	<b> </b>

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## Inorganic Chemicals Certified Laboratory Report Form

Revised 6/13/2014

Odorado Departement of Parking Fleath and Envisorment	<del>                                    </del>	430( Fa	WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO Fax: (303) 758-1398; cdphe.drinkingwater@	WQCD - Drinking Water CAS 300 Cherry Creek Drive South, Denver, CO 80246-1530 Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us				IOC
	Section I (Supplied	Section I (Supplied or Completed by Public Water System) Public Water System Information	ic Water System)	Section JI (Supplied	Section II (Supplied or Completed by Certified Laboratory)	rified La	horatory)	
PWSID#: C00121724				Laboratory ID: CO 0015	Cel tinet Laboratory Intolliation	Папоп		
System Name:	System Name: Sterling Ranch MD	Q1		Laboratory Name: Colorado Analytical Laboratory	lytical Laboratory		ļ.	
Contact Person: Mark Volle	1: 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?	Coroments:				
			Section III (Supplied or Comp	I (Supplied or Completed by Public Water System)				
Sample Date: 3/23/17		Collector: Stephanie Schwe   Facility []	e Facility ID (On Schedule): New Well		Sample Pt ID (On Schedule):	New Well	ell	
		Se	ection IV Inorganic Chemicals (C	Section IV Inorganic Chemicals (Completed by Certified Laboratory)				
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (ms/l.)	Lab MRI.	Result
3/24/17	3/24/17	170324007-01	Fluoride	7681-49-4		4	0.09	1.22
							-	-

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used.

4/21/17 170324007-01 1/1

Sampler Name: Report To Informati Company Name: Contact Name: Addressi46 E. Phone: 19-33 Email: MV5/ 3

Colorado Analytical		Brighton Lab	240 South Main Street	Brighton, CO 80601	Lakewood Lab	12860 W. Cedar Dr. Suite 100A			www.coloradolab.com	
page lot 2	State Form / Project Information	EVEID: O O TO	System Name:	STRALTING RANCH MD	Address: 20 ROLL For CRESCELE	Carlo Carlo	City Spice State Co Zip (1908)	County: El Paso	Compliance Samples: Yes M No	Send Forms to State: Yes No 12
Drinking Water Chain of Custody	Bill To Information (if different from report to)	Company Name: 5R WATER	Contact Name: 575 MORLEY	1	Address: 20 BOLLDER CRESSELY 20 ROLLDER CRESSELY	Total Control of the	City 28 POLICE State Cozin 8080 \$	Phone: Fax:	126 Whydre from Emili imorter 3870 and com	
	ition	1 DS-Hydro Condultaris company Name: 5R	Mark Volle		Phles Pear LANG	inte 200	State SC963	97-0079m	Ha which and me	Rechange Schwenke RONG.

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### Drinking Water Chain of Custody

System Name:
System Name:
See live Ranch MD
Address:
Address:
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Address: State ZipSUPUZ page 2052 Email: MVDILE JASHYDro, Com Email: JMONTER 3870@ast.com Compliance Samples: Yes 1000 Send Forms to State: Yes No. 18 State Form / Project Information County: El Passo 5 City Address: 20 Boulder Cresent CINCOLSER SINICOZIN 20103 Bill To Information (If different from report to) Contact Name: Jim Worley Company Name: 305-144dre Consultants Company Name: SR Walter Sampler Name: - ACTION SAMPLE NO. SAMPLE NO. SAMPLE NO. Phone: Starle 21p 80963 Addressiyo E. Piks Peak Ave Contact Name: Mark Volle Suite 200 Phone: 119-327-0073 Report To Information City (5

Colorado Analytical LABORATORIES, INC. Brighton Lab 240 South Main Street Brighton, CO 80601 <u>Lakewood Lab</u> 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

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# Inorganic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login

Revised 4/13/2015

IOC

S	ection I (Sumplied	Section I (Sumplied or Completed by Public Water System)	ic Water System)	Section II	Section II (Supplied or Completed by Certified Laboratory)	by Certified I	aboratory	
	Public	Public Water System Information	ation		Certified Laboratory Information	Information		
PWSID#: C00121724				Laboratory ID: CO 0015				
System Name:	System Name: Sterling Ranch MD	1D		Laboratory Name: Colo	Laboratory Name: Colorado Analytical Laboratory	ıry		
Contact Person: Mark Volle	1: Mark Volle		Phone #:	Contact Person: Customer Service		Phone: 303-659-2313	7-2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:		:		
-			Section III (Supplied or Comp	I (Supplied or Completed by Public Water System)	cm)			
Sample Date: 3/23/17		Collector: Stephanie Schwe Facility J		Vew Well	Sample Pt ID (On Schedule):	ule): New Well	Well	
		Se	Section IV Inorganic Chemicals (C	organic Chemicals (Completed by Certified Laboratory)	oratory)			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	Analytical	MCI.	Lab MRI.	Result (mu/I)
3/24/17	3/29/17	170324007-01A	Antimony	7740-36-0	E.	0.006	0.001	BDI.
3/24/17	3/29/17	170324007-01A	Arsenic	7440-38-2		0.01	0.001	0.002
3/24/17	3/29/17	170324007-01A	Barium	7440-39-3	3 EPA 200.8	2	0.001	0.003
3/24/17	3/29/17	170324007-01A	Beryllium	7440-41-7	7 EPA 200.8	0.004	0.001	BDL
3/24/17	3/29/17	170324007-01A	Cadmium	7440-43-9	9 EPA 200.8	0.005	0.001	BDL
3/24/17	3/29/17	170324007-01A	Chromium	7440-47-3	3 EPA 200.8	0.1	0.001	BDL
3/24/17	3/29/17	170324007-01A	Mercury	7439-97-6	5 EPA 200.8	0.002	0.0001	BDL
3/24/17	3/29/17	170324007-01A	Nickel	7440-02-0	EPA 200.8	N/A	1000	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	5 EPA 200.7	N/A	0.1	52.8
3/24/17	3/29/17	170324007-01A	Thallium	7440-28-0	) EPA 200.8	0.002	0.001	BDL

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used.

4/21/17

170324007-01A

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Drinking Water Chain of Custody

page lot 2

State Co Zip & CHOS Address: 20 BOLLDER CRESCENT 20 BOLLDER CRESCELY STERVENCE RANCH MD Compliance Samples: Yes K No Send Forms to State: Yes | No the State Form / Project Information PWSID: CO O121724 System Name: County: El Paso City COLO 1845 Email: M Volle (2) Shuda com Email: smortey 38 toward com City Specific Sinte Cozin 80905 Bill To information (if different from report to) Contact Name: SIM MORLEY Company Name: J DS-Hedro Centel Company Name: 5R WATER Sampler Name: Stechante Schwenke PONO. Phone: Address & Piles Peach Ave (2) San (Com 80903 Contact Name: Mark Volle Suite 325 Phone: 119-337-0074x; Report To Information

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Colorado Analytical	LABORATORIES, INC.
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240 South Main Street Brighton, CO 80601 Brighton Lab

Lakewood Lab 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

PHASSINGER  Residual Chilorine  Residual Chilorine  Residual Chilorine  Residual Chilorine  Residual Chilorine  Residual Chilorine  Sol. I EDB/DBCP  Sol. I EDB/DBCP  Sol. I EDB/DBCP  Sol. I EDB/DBCP  Sol. I Edampies Only  Sol. I Edampies Only  Sol. I Edampies Only  Sol. I Edampies Only  Sol. I Edampies Only  Sol. I Edampies Only  Sol. I Edampies  Sol. I Edampie	Relinquished By: Date/Time: Received By:	
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Addr State ZipSU903 Compliance Samples: Yes No -Send Forms to State: Yes No. W. State Form / Project Information County: El Passo Cly (S Email: MVolle@jdshydre, Com Email: morter 3870 Oach.com Address: 20 Bandber Cresent CIRCLESTO SIMILOZIO 2010 23 Bill To Information (If different from report to) Company Name: JOS-1-Hodice Carsel Harts Company Name: SR Waster Contact Name: Jim Worley Sampler Name: KONGINE SCHUSENKE PO No. Starle 21p 80963 Address & Piks Peak Ave Contact Name: Mark VONE Suite 300 Phone: 119-327-00-73 Report To Information City (5

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Brighton Lab 240 South Main Street Brighton, CO 80601 Lakewood Lab 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

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### **Analytical Results**

TASK NO: 170324007

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

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 C00121724

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 m/s = Most Probable Number Index/ 100 m/s Date Analyzed = Date Test Completed

**DATA APPROVED FOR RELEASE BY** 

page lot 2

Colorado Analytical State Form / Project Information Bill To Information (if different from report to) Company Name: J DS-Hydro Consultants company Name: SR WATER Report To Information

Brighton Lab	240 South Main Street Brighton, CO 80601	Lakewood Lab 12860 W. Cedar Dr., Suite 100A	Phone: 303-659-2313	Fax: 303-659-2315	www.coloradolab.com	
FOR CO. CO.	System Name:	Address: 20 Bounder CARSCENT	City Codes State Co Zip & Codos	County: El Paso	Compilance Samples: Yes K No	Send Forms to State: Yes O No Th
Company Name: SR WATER	Contact Name; JEM MORLEY	Address; DOUDER CRESCEIN 20 BOULDER CARSCEIN	COLORADO State COZIP 8090 \$	Phone: Fax:	Email: imortey 3870(2001.com	PO No.:
Company Name: 15-Hedre Condultants Company Name: 5R L	Contact Name: Mark Jolle	Addressig & PhesPeak Ave Swite 200	903	Phone: 119-337-0079ax.	Email: M Vo / Ca joshudic Com Email: imortey 38 to paol, com Compliance Samples: Yes 12 No	Sampler Name: Stechante Schwenke PO No.

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Colorado Analytical Brighton Lab 240 South Main Street Brighton, CO 80601 Lakewood Lab 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

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# Nitrate and Nitrite as Nitrogen Certified Laboratory Report Form WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login

Revised 4/13/2015
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Sample Date	Callector	Facility ID On Schedule	Sample Pt ID On Schedule	Confirmation?	Lab Receipt Date	Lab Receipt Lab Analysis Date Date	Laboratory Sample ID #	Analyte	Analytical Method	MCL (mg/L)	Lab MRI, (mg/L)	Result (mg/L)	
3/23/17	3/23/17 tephanie Schwenk	New Well	New Well		3/24/17	3/24/17	170324007-01	Nitrate Nitrogen	EPA 300.0	10	0.1	BDL	
3/23/17	3/23/17 tephanic Schwenk New Well	New Well	New Well		3/24/17	3/24/17	170324007-01	Nitrite Nitrogen	EPA 300.0	-	0.1	BDL	

mg/L; Milligrams per Liter MCL; Maximum Contaminant Level

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used. Page 1 of 3

4/21/17 170324007-01 1/1

page lot 2

Colorado Analytical

ABORATORIES, INC.

State Co Zip & Offos 20 BOULDER CRESCENS STERVENCE RANCH MD Compliance Samples: Yes Z No Send Forms to State: Yes | No 12 State Form / Project Information PWSID: CO O(21724 System Name: County: El Paso City 60.05 Address: 20 BOULDER CRESCENT Emall: MVS/16(3 jdshidte Com Emall: inortey 3870(2) and .com City SPACE JUS State COZID 8090 \$ Bill To Information (If different from report to) Contact Name: STM MORLEY Company Name; J DS-Hydro Covoulland Company Name; SR WATER Sampler Name: Stechante Schwenke PONa; **Phone:** Address & Piles Park Ave Scall Coly 80903 Contact Name: Mark Volle Swite 320 Phone: 119-337-00742x; Report To Information 5 CITY

Lakewood Lab 12860 W. Cedar Dr, Suite 100A

www.coloradolab.com

Phone: 303-659-2313 Lakewood CO 80228

Fax: 303-659-2315

Brighton Lab 240 South Main Street

Brighton, CO 80601

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Colorado	- Analytical
	page 2012

LABORATORIES, INC.

Brighton Lab 240 South Main Street Brighton, CO 80601 Lakewood Lab 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

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## Organic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login

Revised 4/13/2015

VOC/SOC

Section I (Supplied or Completed by Public Water System)	Public Water System)	Section II (Sumpl	Section Il (Sumpled or Completed by Certified Laboratory)	v Certified L	aboratory)	
Public Water System Information	formation	Certi	Certified Laboratory Information	nformation		
PWSID#: CO0121724		Laboratory ID: CO 00063				
Sterling Ranch MD		Laboratory Name: Colorado A	Colorado Analytical Laboratory	٨		
Contact Person: Mark Volle	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 Corrol	(Supplied or Completed by Public Water System)				
Collector: Stephan	Stephanie Schwenk   Facility ID (On Schedule):	New Well	Sample Pt ID (On Schedule):	New Well		
	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	uplied or Completed by Certified	Laboratory)	1		
Lab Analysis Lab Sample ID  Date	Analyte Name	CAS No	Analytical	MCL (iie/L)	Lab MRL	Result
4/3/17 170324007-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
	2,4,-D	94-75-7	EPA 515.4	70	0.1	BDL
	2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL
	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL
	Aldicarb	116-06-3	EPA 531.1	N/A	9.0	BDL
	Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL
	Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL
	Atrazine	1912-24-9	EPA 525.2	3	0.1	RDL
	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
	Carbofuran	1563-66-2	EPA 531.1	40	6'0	BDL
	Chlordanc	57-74-9	EPA 505	7	0.2	BDL
	Dalapon	75-99-0	EPA 515.4	200	_	BDL
	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	9.0	BDL
1	Di(2-ethylhexyl)phthalate	117-81-7	EPA 525.2	9	9.0	BDI.
	Dinosch	85-85-7	EPA 515.4	7	0.2	BDL
1	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
	Endothall	145-73-3	EPA 548.1	100	6	BDL
	Endrin	72-20-8	EPA 505	2	0.01	BDL
	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL
	Heptachlor	76-44-8	EPA 525.2	6.4	0.04	BDL
3/30/17 170324007-01F	Heptachlor epoxide	1024-57-3	HPA 505	0.2	0.02	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.

170324007-01 N

1/2

			Result	(ug/L)	RDI.	Rni	RNI	BDI	Dur			RDI	RNI	RDI
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olic Water System)	Vell Sample Pt	mpleted by Certified L	CAS No.		118-74-1	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)	Stephanie Schwenk   Facility ID (On Schedule): New Well	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	Analyte Name		Hexachlorobenzene	Hexachlorocyclopentadiene	Lindane	Methoxychlor	Oxamyl	Pentachlorophenol	Pictoram	Polychlorinated biphenyl's	Simazine	Toxaphene
	Collector: Stephanie	Section VI	Lab Sample ID		170324007-01F	170324007-01F	170324007-01F	170324007-01F	170324007-013	170324007-01G	170324007-01G	170324007-01F	170324007-011	170324007-01F
11724	23/17		Lab Analysis Date	The state of the s	3/30/17	3/30/17	21/08/8	3/30/17	3/31/17	3/29/17	3/29/17	3/30/17	3/31/17	3/30/17
PWSID#: C00121724	Sample Date: 3/23/17		Lab Receipt Date		3/24/17	3/24/17	3/24/17	3/24/17	3/24/17	3/24/17	3/24/17	3/24/17	3/24/17	3/24/17

page lot 2

Colorado Analytical

ABORATORIES, INC.

State Co Zip & CHOS 20 BOULDER CRESCRING STERVENCE RANCH MD Compliance Samples: Yes 2 No Send Forms to State: Yes | No m State Form / Project Information PWSID: CO 0121724 System Name: County: El Paso Cily 500 yill Address: 20 BOUDER CRESCEN Email: MVS/Ka jashydre Com Email: imortey 38 to paol, com City SPROJUS State Co Zip 80905 Bill To information (if different from report to) Continet Name: JEM MORLEY Company Name: J DS-Hedro Constany Company Name: 5R WATER Sampler Name: Stechante Schwenke Pona. Addressig & PilesPair Ave Senil Coup 80903 Contact Name: Mark Volle Sulk 320 Phone: 119-337-0079ax; Report To Information () \}

City

Page 3 of 4

Lakewood Lab 12860 W. Cedar Dr, Suite 100A

www.coloradolab.com

Phone: 303-659-2313

Fax: 303-659-2315

Lakewood CO 80228

Brighton Lab 240 South Main Street

Brighton, CO 80601

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Bill To Information (If different from report to)

Company Name: JB-14 dre Consultants Company Name: SR Waser

page 2012

State Form / Project Information

Analytical LABORATORIES, INC. System Name:
System Name:
System Name:
Set live Ranch MD
Address:
Address:
Address:
Address:

Brighton Lab 240 South Main Street Brighton, CO 80601

Phone: 303-659-2313 Lakewood CO 80228

Stark ZipSUJU3

City (5)

CIDCASAR SIMILOZIN 20103

Star Con 80903

City (5)

Phone: 119-337-0013

Suff 200

Address: 20 Bandder Cresent

Addressis E. P. Kis Park Ave

Contact Name: Mark Volle

Report To Information

Contact Name: Jim Moder

Fax: 303-659-2315

12860 W. Cedar Dr, Suite 100A

Lakewood Lab

www.coloradolab.com

Compliance Samples: Yes M No

Email: MVolle@jdshydro, Con Email: jmorten 3870@ast.com

Sampler Name: Korking Schusenke Po No.

Page 4 of 4

County: El Paso

Send Forms to State: Yes No. DY

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Seals Present Yes No Headspace Yes No



## Radionuclides Certified Laboratory Report Form

WQCD - Drinking Water CAS

4300 Cherry Creek Drive South; Denver, CO 80246-1530 Fax: (303) 758-1398; cdnhe.drinkingwater@state.co.us



and Environment		4	rax: (303) /38-1398; cdphe.drinkingwater@state.co.us	cdphe.drinkingw	ater@state.co.us				
	Section	Section I (Supplied or Completed by Public	ıblic Water System)		Section II (Supplied or Completed by Certified Laboratory)	d or Completed 1	by Certified L	aboratory)	
	ī	Public Water System Information			Certified La	Certified Laboratory Information	nation		
PWS ID: C00121724	21724			Laboratory ID: CO 00008	30000 C				
System Name:	System Name: Sterling Ranch MD	QW.		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 Composited BY THE LAB?	Comments:					
			Section III (Supp	lied or Completed by	Section III (Supplied or Completed by Public Water System)				
Sample Date: 03/23/2017	03/23/2017	Collector:	Facility ID (On Schedule):		Sample Pt ID (On Schedule):			:	
			Section IV Radionuclide	s (Supplied or Compl	Section IV Radionuclides (Supplied or Completed by Certified Laboratory)	ory)			
Lab Receipt Date	Lab Receipt   Lab Analysis   Date   Date	Lab Sample ID	Analyte Name (Code)	e (Code)	CAS No.	Analytical Method	MCL	Lab MRL	Result
03/24/2017	04/18/2017	C27017-001	Gross Alpha Including Uranium (4002)	, Uranium (4002)	12587-46-1	SM 7110 B	N/A	1.5	0.0(±1.5)
			Combined Uranium (4006)	ium (4006)	7440-61-1	D2907-97	30 ug/L		
03/24/2017	04/07/2017	C27017-001	Radium -226 (4020)	(4020)	13982-63-3	SM 7500-RaB	N/A	0.1	0.4(±0.3)
03/24/2017	03/30/2017	C27017-001	Radium -228 (4030)	(4030)	15262-20-1	EPA Ra-05	N/A	9.0	0.2(±0.6)
03/24/2017	04/18/2017	C27017-001	Gross Beta (4100)	(4100)	12587-47-2	SM 7110 B	50 pCi/l.*	2.1	0.0(±2.0)
			Total Dissolved Solids (1930)	lolids (1930)		EPA 160.3	N/A		
*The MCL fo	r Gross Beta	*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.	r. Since there is no simp	le conversion betwe	en mrem/year and pCi/L	EPA considers 5	50 pCi/L to b	e the level o	f concern.
			Section V Calculated Values	d Values					
		N/A	Gross Alpha Excluding Uranium (4000)	g Uranium (4000)	Calculated Value	alue	15 pCi/L	N/A	
			Combined Radium {-226 & -228} (4010)	26 & -228} (4010)	Calculated Value	alue	5 pCi/L	N/A	

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

BDL: Below Laboratory MRL. A less than sign (<) may also be used

ug/L: Micrograms per Liter

pCi/L.: Picocuries per Liter MCL: Maximum Contaminant Level

Report To Information	Bill To Information (If different from report to)	State Form / Project Information	•
Company Name: Colorado Analytical Labs	Company Name: <u>same</u>	PWSID: C00121724	
Contact Name: Shuart Nielson	Contact Name:	System Name: Sterling Ranch MD	
Address: P.O. Box 507	Address:	System Address: 20 Boulder Crescent	
City: Brighton State: CO Zip: 80601	City: State: Zip:	City: Colo Spgs State: CO Zip: 80903	
Phone:303-659-2313 Fax:303-659-2315	Phone: Fax:	County: El Paso	
Email: stuartnielson@coloradolab.com	Email:	Compliance Samples: Yes 🔯 No 🗍	
Sampler Name:	PO No.:	Send Forms to State: Yes 🔲 No 🛛	

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Colorado Al Laboratories,	
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Brighton Lab 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

Regarded to the second		Instri							3/23/17	Date			CAL
Refragaished By:		etions:Gros							7 08:03	Time	ARF	170324007	CAL Task No.
N Ba		Instructions: Gross Alpha, without Radon & Uranium. ** Combined Radium -226 & Please print results on Colorado State form but do not submit to CDPHE. Thank you.							170324007 Su	Client Sam			
12/1/2/ 12/1/2/		it Radon & Urai							170324007 Sterling Ranch MD	Client Sample ID / EP Code			
Received By:		nium. ** ) not subi						 :					
d By		Con nit to							9	No. o	f Containers		
		** Combined Radium -226 & -228 bmit to CDPHE. Thank you.								(mg/I	lual Chlorine L) Samples Only		
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		-226 1k yo								504.	EDB/DBCP	_	
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Date/Time:		28.								515.4	4 Herbicides	╝	PH
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By:	4									549.2	2 Diquat		
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03/24/2017	Sample Pres. Yes 🗌 No 🗌	Headspace Yes			d				$\boxtimes$	Gros	s Alpha /Beta	$\exists$	Subo
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25					百					Uran	ium		SCS



### **Analytical Results**

TASK NO: 170324007

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

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 C00121724

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

Lab Number: 170324007-01

Facility ID: New Well Sample Point ID: New Well

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	1.3 mg/L	EPA 300.0	0.1 mg/L	3/24/17	ЫG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L		VDB
E-Coli	< 1 mpn/100ml	Colliert	1 mpn/100mi	3/25/17	VDB
Sulfate	10.7 mg/L	EPA 300.0	0.1 mg/L		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		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



### **Analytical Results**

TASK NO: 170324007

Report To: Mark Volle Company: JDS Hydro Consultants 545 E. Pikes Peak Ave Suite 300 Colorado Springs CO 80903

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

Lab Number: 170324007-01

Facility ID: New Well Sample Point ID: New Well

Test Result Method ML Date Analyzed Analyzed By Total

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 mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

page lot 2

Colorado Analytical

LABORATORIES, INC.

State Co Zip & CHOS 20 BOULDER CARSCRING STERVENCE RANCH MD Compliance Samples: Yes K No Send Forms to State: Yes | No the State Form / Project Information PWSID: CO O(21724 System Name: County: El Paso Cily 62.05 Address: 20 BOULDER CRESCEIN Email: MV5/ka (Jshuda Com Email: inorley 38 to Dad . com City APPRAICS State Cozza 80805 Bill To Information (if different from report to) Contact Name: JEM MORLEY Company Name: J DS-H-Ldro Congany Name: SR WATER Sampler Name: Stechante Schwenke PONO. Phone: Address & Piles Park Ave Sun (2021) 809/03 Contact Name: Mark Volle Suite 300 Phone: 119-337-0074 Report To Information 5 City

Lakewood Lab 12860 W. Cedar Dr, Suite 100A

www.coloradolab.com

Phone: 303-659-2313 Lakewood CO 80228

Fax: 303-659-2315

Brighton Lab 240 South Main Street

Brighton, CO 80601

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l	Page 3 of 4									$\Box$		

Page 3 of 4

Seals Present Ves | No W Headspace Yes W No W

Sample Pres. Yes MINO Date/Time:

C/S Charge ☐ Temp. 3.3 °C/Ice V

With the bothe shipment. Please preserve Diquot
Sample #8 as soon as you receive this shipment, Delivered Via: Fed Ex
Relinquiphed By: Date Time: Received By: Date Time: Relinquiphed By:

preservative was included

Instructions: No 14,9504

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page 2012

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Addr State Zipyuga Compliance Samples: Yes V No Send Forms to State: Yes No. 10 State Form / Project Information County: El Passo City (S Email: MVolle@jdshydre, Com Email: jmorten 3870@ast.com Address: 25 Bondder Cresent CIDCASOR SINCOZIO 20103 Bill To Information (If different from report to) Company Name: JDS-Hydro Consultants Company Name: SR Waster Contact Name: Jim Worker Sampler Name: KONGINE SCHUSENKE PO No. Starle Zip 80963 Addressis E. Piles Park Ave Suite 200 Contact Name: Mark Volle Phone: 719-327-0073 Report To Information City (5

LABORATORIES, INC.

Brighton Lab 240 South Main Street Brighton, CO 80601 Lakewood Lab 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

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	Page 4 o	. **				_									7/-)

Billings, MT 800.735.4489 • Casper, WY 888.235.051 Gillette, WY 866.686.7175 • Helena, MT 877.472.071

### **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 F	Receive Date	Matrix	Test
C17030850-001	170324007 Sterling Ranch MD	03/23/17 8:03	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

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 886.686.7175 • Helena, MT 677.472.0711

CLIENT: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Report Date: 04/06/17

**CASE NARRATIVE** 

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.





### 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
VOCS BY AZEOTROPIC DISTILLATION							
1,4-Dioxane	ND	ug/L		1.0	18	SW8260M	04/06/17 09:34 / eli-b
<ul> <li>Analysis by direct aqueous injection of the sample of quantitate the 1,4-Dioxane and account for any variation</li> </ul>	distillate. A	deuterated		xane was	added to the	sample prio	r to distillation and used to
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20	E	624	03/31/17 16:09 / eli-b
Acetonitrile	ND	ug/L		20	E	624	03/31/17 16:09 / eli-b
Acrolein	ND	ug/L		20	E	624	03/31/17 16:09 / eli-b
Acrylonitrile	ND	ug/L		20	E	624	03/31/17 16:09 / ell-b
Benzene	ND	ug/L		1.0	8	624	03/31/17 16:09 / eli-b
Bromobenzene	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
Bromochloromethane	ND	ug/L		1.0	E	624	03/31/17 16:09 / ell-b
Bromodichloromethane	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
Bromoform	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
Bromomethane	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
Carbon disulfide	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
Carbon tetrachloride	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
Chlorobenzene	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
Chlorodibromomethane	ND	ug/L		1.0	Е	624	03/31/17 16:09 / eli-b
Chloroethane	ND	ug/L		1.0	E	624	03/31/17 16:09 / ell-b
2-Chloroethyl vinyl ether	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
Chloroform	ND	ug/L		1.0	Е	624	03/31/17 16:09 / eli-b
Chloromethane	ND	ug/L		1.0	Е	624	03/31/17 16:09 / eli-b
2-Chlorotoluene	ND	ug/L		1.0	Е	624	03/31/17 16:09 / eli-b
4-Chlorofoluene	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
1,2-Dibromoethane	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
Dibromomethane	ND	ug/L		1.0	Ε	624	03/31/17 16:09 / ell-b
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1,3-Dichlorobenzene	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
1,4-Dichlorobenzene	ND	ug/L		1.0	E	624	03/31/17 16:09 / ell-b
Dichlorodifiuoromethane	ND	ug/L		1.0	Е	624	03/31/17 16:09 / eli-b
1,1-Dichloroethane	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
1,2-Dichloroethane	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
1,1-Dichloroethene	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
cis-1,2-Dichioroethene		ug/L		1.0	E	624	03/31/17 16:09 / ell-b
trans-1,2-Dichloroethene		ug/L		1.0	E	624	03/31/17 16:09 / eli-b
1,2-Dichloropropane	ND	ug/L		1.0	E	624	03/31/17 16:09 / eli-b
1,3-Dichloropropane		ug/L		1.0		624	03/31/17 16:09 / eli-b
2,2-Dichloropropane		ug/L		1.0		624	03/31/17 16:09 / ell-b
1,1-Dichloropropene		ug/L		1.0		624	03/31/17 16:09 / eli-b
cis-1,3-Dichloropropene		ug/L		1.0		624	03/31/17 16:09 / eli-b
trans-1,3-Dichioropropene		ug/L		1.0		624	03/31/17 16:09 / eli-b
Ethylbenzene		ug/L		1.0		624	03/31/17 16:09 / ell-b

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

### **LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project: Lab ID:

C17030850-001

Client Sample ID: 170324007 Sterling Ranch MD

170324007 Sterling Ranch MD

Report Date: 04/06/17

Collection Date: 03/23/17 08:03

DateReceived: 03/28/17

Matrix: Groundwater

Analyses	Result	Unife	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
reserved.	- Neartt	OFFICE	Acres 11 (C) 2	NL.	WOL MENIOR	Aridiyala Date / Dy
VOLATILE ORGANIC COMPOUNDS						
Methyl tert-butyl ether (MTBE)	ND	ug/L		2.0	E624	03/31/17 16:09 / eli-b
Methyl ethyl ketone	ND	ug/L		20	E624	03/31/17 16:09 / eli-b
Methyl isobutyl ketone	ND	ug/L		10	E624	03/31/17 16:09 / eli-b
Methylene chloride	ND	ug/L		1.0	E624	03/31/17 16:09 / ell-b
Naphthalene		ug/L		0.50	E624	03/31/17 16:09 / eli-b
Styrene	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 / ell-b
1,1,1,2-Tetrachloroethane	ND	_		1.0	E624	03/31/17 16:09 / eli-b
1,1,2,2-Tetrachloroethane	ND	_		1.0	E624	03/31/17 16:09 / eli-b
Toluene	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 / eli-b
1,1,1-Trichloroethane	ND	ug/L		1.0	E624	03/31/17 16:09 / eli-b
1,1,2-Trichloroethane	ND	ug/L		1.0	E624	03/31/17 16:09 / eli-b
Trichlorofluoromethane	ND	ug/L		1.0	E624	03/31/17 16:09 / 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
n+p-Xylenes	ND	ug/L		1.0	E624	03/31/17 16:09 / eli-b
>-Xylene	ND	ug/L		1.0	E624	03/31/17 16:09 / eli-b
Kylenes, Total	ND	ug/L		1.0	E624	03/31/17 16:09 / eli-b
Surr: 1,2-Dichloroethane-d4		%REC		71-139	E624	03/31/17 16:09 / eli-b
Surr: p-Bromofluorobenzene		%REC		80-127	E624	03/31/17 16:09 / eli-b
Surr: Toluene-d8		%REC		80-123	E624	03/31/17 16:09 / eli-b
		70:420		00-120	LUZT	U-119 1 60.04 1 11 101000
SEMI-VOLATILE ORGANIC COMPOU						
Acenaphthene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Acenaphthylene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Anthracene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
*zobenzene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Benzidine	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Benzo(a)anthracene		ug/L		10	E625	03/30/17 17:14 / eli-b
Benzo(a)pyrene		ug/L		10	E625	03/30/17 17:14 / eli-b
Benzo(b)fluoranthene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Benzo(g,h,i)perylene	ND	ug/L		10	E625	03/30/17 17:14 / elí-b
Benzo(k)fluoranthene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
-Bromophenyl phenyl ether	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
sutylbenzylphthalate	QN	ug/L		10	E625	03/30/17 17:14 / eli-b
-Chloro-3-methyiphenoi	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
is(-2-chloroethoxy)Methane	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
is(-2-chloroethyl)Ether	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
is(2-chloroisopropyl)Ether	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
2-Chloronaphthalene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
2-Chlorophenol	ND	ug/L		10	E625	03/30/17 17:14 / eli-b

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control (imit.

MCL - Maximum contaminant level.

Matrix: Groundwater

### 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

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMP	OUNDS			***		
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-butyl phthalate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
1,2-Dichlorobenzene	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
i 3-Dichlorobenzene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
.4-Dichlorobenzene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
2,4-Dichlorophenol	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Dimethyl phthalate	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
.6-Dinitro-2-methylphenol	ND	ug/L		50	E625	03/30/17 17:14 / eli-b
,4-Dinitrophenol	ND	ug/L		50	E625	03/30/17 17:14 / ell-b
4.4-Dinitrotoluene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
#.6-Dinitrotoluene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
is(2-ethylhexyl)Phthalate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
luoranthene	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
luorene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
lexachicrobenzene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
lexachlorobutadiene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
lexachiorocyclopentadiene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
lexactilorocydoperitadiene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
ndeno(1,2,3-cd)pyrene	ND	ug/L ug/L		10	E625	03/30/17 17:14 / eli-b
* ** *	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
sophorone	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
-Nitrosodimethylamine	ND	ug/L ug/L		10	E625	03/30/17 17:14 / eli-b
-Nitroso-di-n-propylamine	ND	_		10	E625	03/30/17 17:14 / eli-b
-Nitrosodiphenylamine	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
-Nitrophenol		ug/L		50	E625	03/30/17 17:14 / eli-b
-Nitrophenol	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
laphthalene	ND ND	ug/L		10	E625	03/30/17 17:14 / eli-b
litrobenzene		ug/L		50	E625	03/30/17 17:14 / eli-b
rentachiorophenol	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
henanthrene	ND	ug/L				03/30/17 17:14 / eli-b
henoi		ug/L		10	E625	
yrene		ug/L		10	E625	03/30/17 17:14 / eli-b 03/30/17 17:14 / eli-b
,2,4-Trichlorobenzene	ND	_		10	E625	
,4,6-Trichlorophenol		ug/L		10	E625	03/30/17 17:14 / ell-b
Surr: 2-Fluorobiphenyl		%REC		3-107	E625	03/30/17 17:14 / eli-b
Surr: 2-Fluorophenol		%REC		0-56	E625	03/30/17 17:14 / eli-b
Surr: Nitrobenzene-d5		%REC		2-94	E625	03/30/17 17:14 / ell-b
Surr: Phenoi-d5	27.0	%REC	1	9-45	E625	03/30/17 17:14 / eli-b

Report

RL - Analyte reporting limit.

**Definitions:** 

QCL - Quality control limit.

MCL - Maximum contaminant level.

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

### 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 COMP	OUNDS			
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							An	alytical Run:	R27728
Lab ID: ccv033117	Continuing Ca	dibration Ver	ification 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			
Bromochioromethane	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-Chlorotoluene	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-Dichiorobenzene	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-Dichioropropane	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			
nahinggene	5.00	սկ/ւ	0.50	102	, 0	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 Qua
Method: E624							Analytical Run: R2772
Lab ID: ccv033117	Continuing Ca	dibration Verifi	cation Standa	ard			03/31/17 08
Styrene	4.52	ug/L	0.50	90	70	130	
Tetrachloroethene	4.68	ug/L	0.50	94	70	130	
1,1,1,2-Tetrachioroethane	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-Trichioroethane	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	5.2 <del>4</del>	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: R2772
Lab ID:	Laboratory Co	•			Run: 5971/	A.I_170331A	03/31/17 09
Acetone	56.0	ug/L	20	112	55	144	
Acetonitrite	56.8	ug/L	20	114	54	142	
Acrolein	42.4	ug/L	20	85	16	233	
Acrylonitrile	48.4	ug/L	20	97	76	127	
Benzene	4.92	ug/L	0.50	98	73	122	
Bromobenzene	4.96	ug/L	0.50	99	74	129	
Bromochioromethane	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 disulfide	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	u <b>g</b> /L	1.0	52	36	144	
2-Officioedilyi viityi edilet	5.52	ug/L	0.50	110	68	124	
Chloroform			0.50	75	53	146	
-	3.77	ug/L	0.50				
Chloroform		ug/L ug/L	0.50	102	75	131	
Chloroform Chloromethane	3.77						
Chloroform Chloromethane 2-Chlorotofuene	3.77 5.08	ug/L	0.50	102	75	131	

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 RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch:	R27728
Lab ID:	Laboratory Contro	l Sample		Run: 5971	A.I_170331A		03/31	/17 09:19
1,2-Dichlorobenzene	4.96 ug	g/L 0.50	99	74	124			
1,3-Dichlorobenzene	5.12 นรู	g/L 0.50	102	77	122			
1,4-Dichlorobenzene		g/L 0.50	99	76	126			
Dichlorodifluoromethane	5.60 ц	g/L 0.50	112	56	146			
1,1-Dichloroethane	4.72 นรู	g/L 0.50	94	74	133			
1,2-Dichloroethane	5.76 นรู	g/L 0.50	115	75	129			
1,1-Dichloroethene	5.16 սչ	g/L 0.50	103	74	132			
cis-1,2-Dichloroethene	4.88 uç	g/L 0.50	98	81	122			
trans-1,2-Dichloroethene	5.12 սջ	g/L 0.50	102	79	143			
1,2-Dichloropropane	4.60 ს(	g/L 0.50	92	75	126			
1,3-Dichioropropane	4.68 ևն	g/L 0.50	94	71	136			
2,2-Dichloropropane	5.68 სვ	g/L 0.50	114	68	142			
1,1-Dichloropropene	5.00 นรู	J/L 0.50	100	70	131			
cis-1,3-Dichloropropene	4.40 ug	g/L 0.50	88	74	135			
trans-1,3-Dichloropropene	4.84 ug	<sub>3</sub> /L 0.50	97	76	149			
Ethylbenzene	4.96 ug	g/L 0.50	99	72	130			
Methyl tert-butyl ether (MTBE)	5.12 ևջ	3/L 0.50	102	72	120			
Methyl ethyl ketone	52.0 ug	J/L 20	104	45	130			
Methyl isobutyl ketone	50.8 ug	J/L 20	102	58	135			
Methylene chloride	6.08 นรู	ı/L 0.50	122	66	142			
Naphthaiene	5.60 นฐ	ı/L 0.50	112	69	124			
Styrene	4. <del>5</del> 6 ug	ı/L 0.50	91	80	124			
Tetrachloroethene	4.72 ug	/L 0.50	94	72	131			
1,1,1,2-Tetrachloroethane	4.64 ug	/L 0.50	93	78	124			
1,1,2,2-Tetrachloroethane	4.76 ug	/L 0.50	95	68	137			
Toluene	4,76 ug	/L 0.50	95	72	135			
Trichloroethene	4.80 ug	/L 0.50	96	85	126			
1,1,1-Trichloroethane	5.40 ug		108	63	120			
1,1,2-Trichloroethane	4.48 ug		90	78	124			
Trichlorofluoromethane	4.52 ug		90	72	120			
1,2,3-Trichloropropane	4.68 ug		94	64	138			
Vinyl Acetate	4.76 ug		95	31	124			
Vinyi chloride	4.76 ug		95	58	140			
m+p-Xyienes	9.08 ug		91	67	139			
o-Xylene	4.48 ug		90	74	135			
•								

0.50

0.50

0.50

0.50

20

20

90

109

102

92

13.6

Method Blank

ND

ND

ug/L

ug/L

ug/L

Qualifiers:

Acetonitrile

Lab ID:

Acetone

Xylenes, Total

Surr: Toluene-d8

RL - Analyte reporting limit.

Surr: 1,2-Dichloroethane-d4

Surr: p-Bromofluorobenzene

blk033117

ND - Not detected at the reporting limit.

70

71

80

80

Run: 5971A.i\_170331A

137

139

127

123

03/31/17 10:18

Prepared by Billings, MT Branch

Colorado Analytical Laboratories Inc Client:

Work Order: C17030850

Report Date: 04/06/17 Project: 170324007 Sterling Ranch MD

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Quai
Method:	E624								Batch:	R277281
Lab ID:	blk033117	Method Blank				Run: 5971	A.I_170331A		03/31	/17 10:18
Acrolein		ND	ug/L	20			_			
Acrylonitrile	}	ND	ug/L	20						
Benzene		ND	ug/L	0.50						
Bromobenz	ene	ND	ug/L	0.50						
Bromochlor	romethane	ND	ug/L	0.50						
Bromodichl	oromethane	ND	ug/L	0.50						
Bromoform		ND	ug/L	0.50						
Bromometh	nane	ND	ug/L	0.50						
Carbon disu	ulfide	ND	ug/L	0.50						
Carbon tetra	achloride	ND	ug/L	0.50						
Chlorobenz	ene	ND	ug/L	0.50						
Chlorodibro	momethane	ND	ug/L	0.50						
Chloroethar	ne	ND	ug/L	0.50						
2-Chloroeth	ıyl vinyl ether	ND	ug/L	1.0						
Chloroform		ND	ug/L	0.50						
Chlorometh	ane	ND	ug/L	0.50						
2-Chiorotolu	iene	ND	ug/L	0.50						
4-Chiorotolu	iene	ND	ug/L	0.50						
1,2-Dibromo	pethane	ND	ug/L	0.50						
Dibromome	thane	ND	ug/L	0.50						
1,2-Dichlord	benzene	ND	ug/L	0.50						
1,3-Dichloro	benzene	ND	ug/L	0.50						
1,4-Dichloro		ND	ug/L	0.50						
Dichlorodific	uoromethane	ND	ug/L	0.50						
1,1-Dichloro	pethane	ND	ug/L	0.50						
1,2-Dichloro	ethane	ND	ug/L	0.50						
1,1-Dichloro	pethene	ND	ug/L	0.50						
cis-1,2-Dich	loroethene	ND	ug/L	0.50						
trans-1,2-Di	ichloroethene	ND	ug/L	0.50						
1,2-Dichloro		ND	ug/L	0.50						
1,3-Dichloro		ND	ug/L	0.50						
2,2-Dichloro		ND	ug/L	0.50						
1,1-Dichloro		ND	ug/L	0.50						
	loropropene	ND	ug/L	0.50						
	chloropropene	ND	ug/L	0.50						
Ethylbenzer		ND	ug/L	0.50						
-	outyl ether (MTBE)	ND	ug/L	0.50						
Methyl ethyl	- ' '	ND	ug/L	20						
Methyl isobu		ND	ug/L	20						
Methylene o	•	ND	ug/L	0.50						
Naphthalen		ND	ug/L	0.50						
Styrene		ND	ug/L	0.50						
Tetrachloroe	ethene	ND	ug/L	0.50						
		.,_	<del></del>							

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: blk033117	Method Blank				Run: 5971/	A.I_170331A		03/31	/17 10:18
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
1,1,1-Trichloroethane	ND	ug/L	0.50						
1,1,2-Trichloroethane	ND	ug/L	0.50						
Trichlorofiuoromethane	ND	ug/L	0.50						
1,2,3-Trichloropropane	ND	ug/L	0.50						
Vinyl Acetate	ND	ug/L	1.0						
Vinyl chloride	ND	ug/L	0.50						
m+p-Xylenes	ND	ug/L	0.50						
o-Xylene	ND	ug/L	0.50						
Xylenes, Total	ND	ug/L	0.50						
Surr: 1,2-Dichloroethane-d4		-9	0.50	105	71	139			
Surr: p-Bromofluorobenzene			0.50	104	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: b17031875-001dms	Sample Matrix	Spike			Run: 5971/	A.I_170331A		03/31	/17 14:12
Acetone	378	ug/L	100	109	55	144			
Acetonitrile	274	ug/L	100	110	54	142			
Benzene	24.6	ug/L	2.5	98	73	122			
Bromobenzene	24.8	ug/L	2.5	99	74	129			
Bromochloromethane	25.2	ug/L	2.5	101	66	120			
Bromodichloromethane	26.2	ug/L	2.5	105	74	128			
Bromoform	27.0	ug/L	2.5	108	66	128			
3romomethane	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			
Chlorobenzene	22.8	ug/L	2.5	91	80	123			
Chlorodibromomethane	26.8	ug/L	2.5	107	74	125			
Chloroethane	20.2	ug/L	2.5	81	59	142			
Chioroform	33.2	ug/L	2.5	110	68	124			
Chioromethane	18.6	ug/L	2.5	74	53	146			
2-Chlorotoluene	24.8	ug/L	2.5	99	75	131			
4-Chlorotoluene	25.8	ug/L	2.5	103	74	129			
1,2-Dibromoethane	24.0	ug/L	2.5	96	76	124			
Dibromomethane	26.2	ug/L	2.5	105	77	125			
1,2-Dichlorobenzene	24.6	ug/L	2.5	98	74	124			
1,3-Dichlorobenzene	24.6	ug/L	2.5	98	77	122			
1,4-Dichlorobenzene	24.6	ug/L	2.5	98	76	126			
Dichlorodifiuoromethane	27.0	ug/L	2.5	108	56	146			
1,1-Dichloroethane	24.2	ug/L	2.5	97	74	133			
1,2-Dichloroethane	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

Method: E624  Lab ID: b17031875-001dms Samp 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene	26.6 24.4 25.8 23.0 22.4 28.0 25.2 22.2	Spike ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.5 2.5 2.5 2.5 2.5 2.5	106 98 103 92	74 81 79	A.I_170331A 132 122 143			R277281 /17 14:12
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene	26.6 24.4 25.8 23.0 22.4 28.0 25.2 22.2	ug/L ug/L ug/L ug/L ug/L ug/L	2.5 2.5 2.5 2.5	98 103 92	74 81 79	132 122		03/31	/17 14:12
cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene	24.4 25.8 23.0 22.4 28.0 25.2 22.2	ug/L ug/L ug/L ug/L ug/L	2.5 2.5 2.5 2.5	98 103 92	81 79	122			
trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene	25.8 23.0 22.4 28.0 25.2 22.2	ug/L ug/L ug/L ug/L	2.5 2.5 2.5	103 92	79				
1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene	23.0 22.4 28.0 25.2 22.2	ug/L ug/L ug/L	2.5 2.5	92		143			
1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene	22.4 28.0 25.2 22.2	ug/L ug/L	2.5		75				
2,2-Dichloropropane 1,1-Dichloropropene	28.0 25.2 22.2	ug/L			75	126			
1,1-Dichioropropene	25.2 22.2	_	2.5	90	71	136			
	22.2	ug/L		112	68	142			
cis-1,3-Dichloropropene			2.5	101	70	131			
		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	u <b>g</b> /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	u <b>g</b> /L	2.5	110	69	124			
Styrene	22.4	ug/L	2.5	90	80	124			
Tetrachioroethene	22.8	ug/L	2.5	91	72	131			
1,1,1,2-Tetrachloroethane	23.0	ug/L	2.5	92	78	124			
1,1,2,2-Tetrachioroethane	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-Trichioropropane	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, Totali	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: <b>b17031875-001dmsd</b> Samp	le Matrix	Spike Duplicate			Run: 5971A	I_170331A		03/31/	17 15:11
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	u <b>g</b> /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 Report Date: 04/06/17 Project: 170324007 Sterling Ranch MD 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	Spike Duplicate			Run: 5971	A.I_170331A		03/31	/17 15:11
Carbon disulfide	25.6	ug/L	2.5	102	46	145	3.1	20	
Carbon tetrachloride	28.6	ug/L	2.5	114	75	125	1.4	20	
Chlorobenzene	23.6	ug/L	2.5	94	80	123	3.4	20	
Chlorodibromomethane	28.0	ug/L	2.5	112	74	125	4.4	20	
Chloroethane	20.6	ug/L	2.5	82	59	142	2.0	20	
Chloroform	33.6	ug/L	2.5	111	68	124	1.2	20	
Chioromethane	19.3	ug/L	2.5	77	53	146	3.8	20	
2-Chlorotoluene	26.4	ug/L	2.5	106	75	131	6.2	20	
4-Chiorotoluene	27.2	ug/L	2.5	109	74	129	5.3	20	
1,2-Dibromoethane	24.0	u <b>g</b> /L	2.5	96	76	124	0.0	20	
Dibromomethane	26.8	ug/L	2.5	107	77	125	2.3	20	
1,2-Dichlorobenzene	25.8	ug/L	2.5	103	74	124	4.8	20	
1,3-Dichlorobenzene	26.0	ug/L	2.5	104	77	122	5.5	20	
1,4-Dichiorobenzene	25.4	ug/L	2.5	102	76	126	3.2	20	
Dichlorodifluoromethane	25.8	ug/L	2.5	103	56	146	4.5	20	
1,1-Dichloroethane	24.8	ug/L	2.5	99	74	133	2.4	20	
1,2-Dichloroethane	29,2	ug/L	2.5	117	75	129	0.0	20	
1,1-Dichloroethene	26.8	u <b>g</b> /L	2.5	107	74	132	0.7	20	
cis-1,2-Dichloroethene	25.2	ug/L	2.5	101	81	122	3.2	20	
trans-1,2-Dichloroethene	26.4	u <b>g</b> /L	2.5	106	79	143	2.3	20	
1,2-Dichloropropane	23.6	ug/L	2.5	94	75	126	2.6	20	
1,3-Dichloropropane	23.8	ug/L	2.5	95	71	136	6.1	20	
2,2-Dichloropropane	28.6	ug/L	2.5	114	68	142	2.1	20	
1,1-Dichloropropene	25.8	ug/L	2.5	103	70	131	2.4	20	
cls-1,3-Dichloropropene	23.2	ug/L	2.5	93	74	135	4.4	20	
trans-1,3-Dichloropropene	25.4	ug/L	2.5	102	76	149	3.2	20	
Ethylbenzene	25.0	ug/L	2.5	100	72	130	5.8	20	
Methyl tert-butyl ether (MTBE)	26.6	ug/L	2.5	106	72	120	3.8	20	
Methyl ethyl ketone	292	u <b>g</b> /L	100	117	45	130	8.6	20	
Methyl isobutyl ketone	286	u <b>g</b> /L	100	114	58	135	10	20	
Methylene chloride	31.4	u <b>g</b> /L	2.5	126	66	142	2.5	20	
Naphthalene	27.8	ug/L	2.5	111	69	124	0.7	20	
Styrene	22.8	ug/L	2.5	91	80	124	1.8	20	
Tetrachloroethene	23.8	ug/L	2.5	95	72	131	4.3	20	
1,1,1,2-Tetrachloroethane	23.2	ug/L	2.5	93	78	124	0.9	20	
1,1,2,2-Tetrachioroethane	27.4	ug/L	2.5	110	68	137	5.2	20	
Toluene	24.4	ug/L	2.5	95	72	135	0.0	20	
Trichloroethene	25.0	ug/L	2.5	100	85	126	4.9	20	
1,1,1-Trichloroethane	27.4	ug/L	2.5	110	63	120	2.2	20	
1,1,2-Trichloroethane	24.8	ug/L	2.5	99	78	124	5.8	20	
Trichlorofluoromethane	22.4	ug/L	2.5	90	72	120	5.5	20	
1,2,3-Trichloropropane	26.8	ug/L	2.5	107	64	138	2.3	20	
Vinyl Acetate	24.4	ug/L	5.0	98	31	124	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

8illings, MT 880.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

### **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:	E824								Batch:	R277281
Lab ID:	b17031875-001dmsd	Sample Matrix	Spike Duplicate			Run: 5971	A.I_170331A		03/31	/17 15:11
Vinyl chlori	ide	22.8	ug/L	2.5	91	58	140	0.9	20	
m+p-Xylen	es	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, T	otal	69.4	ug/L	2.5	93	70	137			
Surr: 1,2	2-Dichloroethane-d4		•	2.5	112	71	139			
Surr: p-8	3romofluorobenzene			2.5	105	80	127			
Surr: To	luene-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

Units %REC Low Limit High Limit Analyte Result **RPD RPDLimit** Qual Method: Batch: 107942 Lab ID: MB-107942 Method Blank Run: SV5973N2.I\_170330B 03/30/17 16:12 10 Acenaphthene ND ug/L ND 10 Acenaphthylene ug/L 10 Anthracene ND ug/L Azobenzene ND ug/L 10 **Benzidine** ND ug/L 10 10 Benzo(a)anthracene ND ug/L ND ug/L 10 Benzo(a)pyrene Benzo(b)fluoranthene ND ug/L 10 Benzo(g,h,i)perylene ND ug/L 10 Benzo(k)fluoranthene ND ug/L 10 ND 10 4-Bromophenyl phenyl ether ug/L Butylbenzylphthalate ND ug/L 10 ND 10 ug/L 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane ND ug/L 10 bis(-2-chloroethyl)Ether ND ug/L 10 bis(2-chloroisopropyl)Ether ND ug/L 10 10 ND ug/L 2-Chloronaphthalene ND ug/L 10 2-Chlorophenol 10 4-Chlorophenyl phenyl ether ND ug/L Chrysene ND ug/L 10 10 Diethyl phthalate ND ug/L 10 Di-n-butyl phthalate ND ug/L 10 ND ug/L 1,2-Dichlorobenzene 10 1,3-Dichlorobenzene ND ug/L 1,4-Dichlorobenzene ND ug/L 10 3,3'-Dichlorobenzidine ND ug/L 10 2,4-Dichlorophenol ND ug/L 10 Dimethyl phthalate ND ug/L 10 10 Di-n-octyl phthalate ND ug/L ND ug/L 10 Dibenzo(a,h)anthracene 2,4-Dimethylphenoi ND ug/L 10 ND ug/L 50 4,6-Dinitro-2-methylphenol 2,4-Dinitrophenol ND ug/L 50 ND ug/L 10 2,4-Dinitrotoluene 2,6-Dinitrotoluene ND ug/L 10 ND ug/L 10 bis(2-ethylhexyl)Phthalate Fluoranthene ND ug/L 10 ND 10 Fluorene ug/L Hexachlorobenzene ND ug/L 10 ND 10 Hexachlorobutadiene ug/L Hexachlorocyclopentadiene ND ug/L 10

Qualifiers:

Hexachloroethane

RL - Analyte reporting limit.

Indeno(1,2,3-cd)pyrene

ND - Not detected at the reporting limit.

10

10

ND

ND

ug/L

ug/L

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17
Work Order: C17030850

Project: 170324007 Sterling Ranch MD

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit Qual
Method: E625								Batch: 107942
Lab ID: MB-107942	Method Blank				Run: SV59	73N2.I_170330B		03/30/17 16:12
Isophorone	ND	ug/L	10					
n-Nitrosodimethylamine	ND	ug/L	10					
n-Nitroso-di-n-propylamine	ND	ug/L	10					
n-Nitrosodiphenylamine	ND	ug/L	10					
2-Nitrophenol	ND	ug/L	10					
4-Nitrophenol	ND	ug/L	50					
Naphthalene	ND	ug/L	10					
Nitrobenzene	ND	ug/L	10					
Pentachlorophenol	ND	ug/L	50					
Phenanthrene	ND	ug/L	10					
Phenol	ND	ug/L	10					
Pyrene	ND	ug/L	10					
1,2,4-Trichlorobenzene	ND	ug/L	10					
2,4,6-Trichlorophenol	ND	ug/L	10					
Surr: 2-Fluorobiphenyl	NB	ag/L	10	57	28	107		
Surr: 2-Fluorophenol			10	42	20	56		
Surr: Nitrobenzene-d5			10	62	32	94		
Surr: Phenoi-d5			10	30	19	45		
			10	80	32	122		
Surr: Terphenyl-d14			10	68	21	130		
Surr: 2,4,6-Tribromophenol			Į U	00	21	130		
Lab ID: LCS-107942	Laboratory Con	troi Sample			Run: SV59	73N2.I_170330B		03/30/17 16:43
Acenaphthene	89.1	ug/L	10	89	58	99		
Acenaphthylene	84.2	ug/L	10	84	57	96		
Anthracene	75.6	ug/L	10	76	60	107		
Azobenzene	78.0	ug/L	10	78	56	100		
Benzidine	53.1	ug/L	10	53	10	100		
Benzo(a)anthracene	86.4	ug/L	10	86	62	114		
Benzo(a)pyrene	84.7	ug/L	10	85	62	108		
Benzo(b)fluoranthene	89.8	ug/L	10	90	48	127		
Benzo(g,h,i)perylene	87.2	ug/L	10	87	62	121		
Benzo(k)fluoranthene	84.0	ug/L	10	84	55	111		
4-Bromophenyl phenyl ether	87.1	ug/L	10	87	58	105		
Butylbenzylphthalate	90.8	ug/L	10	91	60	113		
4-Chioro-3-methyiphenoi	74.6	ug/L	10	75	53	92		
bis(-2-chloroethoxy)Methane	69.9	ug/L	10	70	50	92		
bis(-2-chloroethyl)Ether	72.1	ug/L	10	72	44	82		
bis(2-chloroisopropyl)Ether	63.2	ug/L	10	63	56	87		
2-Chioronaphthalene	84.9	ug/L	10	85	56	95		
2-Chlorophenol	67.2	ug/L	10	67	47	76		
-	83.0	ug/L	10	83	58	99		
4-Chlorophenyl phenyl ether	87.0	_	10	87	63	106		
Chrysene Diethyl abthalata		ug/L						
Diethyl phthalate	84.6	ug/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	· •··	_						Batch	: 107 <del>9</del> 42
Lab ID: LCS-107942	Laboratory Conf	roi 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-Dichiorobenzene	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	56.2	ug/L	10	86	63	110			
2,6-Dinitrotoluene	77.2	ug/L	10	77	60	107			
bis(2-ethylhexyl)Phthalate	86.0	u <b>g/</b> L	10	86	56	108			
Fluoranthene	84.2	ug/L	10	84	63	110			
Fluorene	89.3	u <b>g</b> /L	10	89	60	99			
Hexachlorobenzene	82.7	u <b>g</b> /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			
Indena(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-Nitrosodiphenylamine	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	68.1	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-Tribromophenol			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								Batci	h: 10794
Lab iD: C17030850-001CMS	Sample Matrix	Spike			Run: SV59	73N2.I_170330E	}	03/30	/17 17:45
Acenaphthene	86.7	ug/L	10	87	58	99			
Acenaphthylene	75.5	ug/L	10	76	57	96			
Anthracene	81.6	u <b>g</b> /L	10	82	60	107			
Azobenzene	84.6	ug/L	10	85	56	100			
Benzidine	122	ug/L	20	122	10	100			s
Benzo(a)anthracene	83.4	ug/L	10	83	62	114			
Benzo(a)pyrene	78.4	ug/L	10	78	62	108			
Benzo(b)fluoranthene	79.9	ug/L	10	80	48	127			
Benzo(g,h,i)perylene	83.2	ug/L	10	83	62	121			
Benzo(k)fluoranthene	84.5	ug/L	10	84	55	111			
4-Bromophenyl phenyl ether	79.5	u <b>g</b> /L	10	79	58	105			
Butylbenzylphthalate	89.2	ug/L	10	89	60	113			
4-Chloro-3-methylphenol	78,3	ug/L	10	78	53	92			
bis(-2-chloroethoxy)Methane	77.9	ug/L	10	78	50	92			
bis(-2-chloroethyl)Ether	71.5	ug/L	10	71	44	82			
bis(2-chloroisopropyl)Ether	58.4	ug/L	10	58	56	87			
2-Chloronaphthalene	<b>7</b> 7.6	ug/L	10	78	56	95			
2-Chlorophenol	63.7	ug/L	10	64	47	76			
4-Chlorophenyl phenyl ether	81.0	ug/L	10	81	58	99			
Chrysene	85.9	ug/L	10	86	63	106			
Diethyl phthalate	84.0	ug/L	10	84	58	103			
Di-n-butyl phthalate	87.0	ug/L	10	87	61	110			
1,2-Dichlorobenzene	67.3	ug/L	10	67	43	81			
1,3-Dichlorobenzene	66.0	ug/L	10	66	41	79			
1,4-Dichlorobenzene	66.7	ug/L	10	67	42	79			
3,3'-Dichlorobenzidine	131	ug/L	10	131	51	93			S
2,4-Dichlorophenol	70.0	ug/L	10	70	49	90			
Dimethyl phthalate	79.3	ug/L	10	79	58	104			
Di-n-octyl phthalate	81.8	ug/L	10	82	56	110			
Dibenzo(a,h)anthracene	80.1	ug/L	10	80	61	111			
2,4-Dimethylphenol	70.7	ug/L	10	71	45	87			
4,6-Dinitro-2-methylphenol	53.1	ug/L	50	53	37	105			
2,4-Dinitrophenol	43.0	ug/L	50	43	27	81			
2,4-Dinitrotoluene	85.6	ug/L	10	86	63	110			
2,6-Dinitrotoluene	81.5	ug/L	10	81	60	107			
bis(2-ethylhexyl)Phthalate	77.5	ug/L	10	77	56	108			
Fluoranthene	84.0	ug/L	10	84	63	110			
Fluorene	0.08	ug/L	10	80	60	99			
Hexachlorobenzene	78,2	ug/L	10	78	57	103			
Hexachiorobutadiene	69.1	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	69.0	ug/L	10	69	39	91			
Hexachloroethane	62.6	ug/L	10	63	37	75			
Indeno(1,2,3-cd)pyrene	76.3	ug/L	10	76	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
Isophorone	71.4	ug/L	10	71	42	102			
n-Nitrosodimethylamine	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	75.6	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: Nîtrobenzene-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							Analytical Run:	R277253
Lab ID: 30-Mar-17_CCV_11	Continuing Ca	libration Verif	ication 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	08	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	08	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	79.8	ug/L	10	106	80	120		
2,6-Dinitrotoluene	80.8	ug/L	10	108	80	120		
bis(2-ethylhexyi)Phthalate	77.3	ug/L	10	103	80	120		
Fluoranthene	76.8	ug/L	10	102	80	120		
Fluorene	82.8	ug/L	10	110	80	120		
Hexachiorobenzene	74.2	ug/L	10	99	80	120		
Hexachlorobutadiene	73.0	ug/L	10	97	80	120		
Hexachiorocyclopentadiene	79.2	ug/L	10	106	80	120		
Hexachloroethane	74.4	ug/L	10	99	80	120		
ndeno(1,2,3-cd)pyrene	73.3	ug/L	10	98	80	120		

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			·				Аг	aiytical Run:	R277253
Lab ID:	30-Mar-17_CCV_11	Continuing Ca	ilibration Verifi	cation Standa	ırd				03/30	/17 15:40
Isophorone	•	71.5	ug/L	10	95	80	120			
n-Nitrosodii	methylamine	79.5	ug/L	10	106	80	120			
n-Nitroso-di	i-n-propylamine	76.0	ug/L	10	101	80	120			
n-Nitrosodi	phenylamine	77.5	ug/L	10	103	80	120			
2-Nitropher	nol	74.6	u <b>g</b> /L	10	99	80	120			
4-Nitropher	lor	72.4	ug/L	50	97	80	120			
Naphthalen	ie	68.4	ug/L	10	91	80	120			
Nitrobenzer	ne	77.1	ug/L	10	103	80	120			
Pentachloro	ophenol	71.7	ug/L	50	96	80	120			
Phenanthre	ene	70.9	ug/L	10	95	80	120			
Pheno!		79.0	ug/L	10	105	80	120			
Pyrene		79.0	ug/L	10	105	80	120			
1,2,4-Trichi	orobenzene	73.1	ug/L	10	98	80	120			
2,4,6-Trichl	orophenol	71.0	ug/L	10	95	80	120			
Surr: 2-F	luorobiphenyl			10	108	80	120			
Surr: 2-F	luorophenol			10	105	80	120			
Surr: Nitr	robenzene-d5			10	101	80	120			
Surr: Phe	enal-d5			10	102	80	120			
Surr: Ter	phenyl-d14			10	104	80	120			
Surr: 2,4,	6-Tribromophenol			10	105	80	120			

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

### **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:	SW8260M							-	Analytical Rui	n: 108173
Lab ID:	CCV-108173	Continuing Cal	ibration Verificati	on Standa	erd				04/06	/17 08:29
1,4-Dioxane		95.7	ug/L	1.0	96	80	120			
Method:	SW8260M								Batcl	n: 108173
Lab ID:	LCS-108173	Laboratory Cor	ntrol Sample			Run: VOA5	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 ID:	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	

### **Work Order Receipt Checklist**

**Contact and Corrective Action Comments:** 

None

### Colorado Analytical Laboratories Inc C17030850

Login completed by:	Corinne Wagner		Date	Received: 3/28/2017	
Reviewed by:	Kasey Vidick		Re	eceived by: ckw	
Reviewed Date:	3/29/2017		Ca	rrier name: Ground	
Shipping container/cooler in	good condition?	Yes 🗸	No 🗔	Not Present	
Custody seals intact on all sl	nipping 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 🗌		
All samples received within h (Exclude analyses that are co such as pH, DO, Res Cl, Su	onsidered field parameters	Yes 🗸	No 🗌		
Temp Blank received in all si	nipping container(s)/cooler(s)?	Yes 🗌	No 🗸	Not Applicable	
Container/Temp Blank tempe	erature;	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 Reporti	ng Procedures:		پر میریدر کا به صفح که پیران		
	nalytes considered field p and Residual Chlorine, a				
	reported on a wet weight length of the noted as —dry. For agricumple analysis.				

### Chain of Custody Form

			(
Report To Information	Bill To Information (1f different from report to)	Project Name	Colorado Analytical
Company Name: Colorado Analytical Laboratoy	Company Name: Same	170324007	Brighton Lab
Contact Name: Stuart Nielson	Contact Name:	Sterling Ranch MD	240 South Main Street Brighton, CO 80601
Address:	Address:	Task Number (Lab Use Only)	Lakewood Lab
P.O. Box 507		CAL Task No. 0	12860 W. Cedar Dr, Suite 100A
240 S Main St		170324007	Lakewood CU 80228
City Brighton State CO Zip80601	City State Zip	1200L	Phone: 303-659-2313 Fax: 303-659-2315
Phone:303-659-2313 Fax:303-659-2315	Phone: Fax:	ARF 10 10	www.coloradolab.com
Email: stuartnielson@coloradolab.com	Email:	Disposal Date(Lab Use Only)	
Sample Collector:	PO No.:		•

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Waste Water ☐ Soil ☐ Plant Ground Water ☒ Sludge ☐ Other Surface Water ☐ Compost ☐ —						 				Instructions: UPS to Energy Labs		Remaished By:
<b>3</b> 5 8 €	3/23/17									Insti		37

### **APPENDIX F**

### FAWA WATER SUPPLY VS CURRENT WATER COMMITMENTS



		Analy	ysis of Water Co	<u>ommitments</u>				Volumetric
	Davidanment		eliminary Commit			inal Commitments		Commitment
	Development	Commitment	Supply / Commitment	Letter or Summary	Commitment	Commitment	Letter or Summary	(300 yearAcre- feet)
	The Detreet of TimberDidge Bushining, Dlay (Control System	SFE 167	Acre-Feet 58.951	Date/Notes  April 2018 Report	SFE	Acre-Feet	Date/Notes	17685.3
	The Retreat at TimberRidge Preliminary Plan (Central System Only)	107	30.731	Supplement Nov 2020				17000
	Final #1 Final #2				59 SFE 78 SFE	20.827 27.53	23-Aug-20 April 30,2021	
Retreat	Final #3				30 SFE	10.59	July, 2022	
Ref	Stimple Subdivision	1	0.353	August, 2024 Letter			(reissued May 15, 2023)	105.9
		-	0.000	ragust, 202 i Detter				
	Retreat at Timberidge Filing 4				10	3.53	20-Feb-24	1059.0
	Sterling Ranch Preliminary Plan Phase One	726	255.96	June 2015 Report/Summa				
				Update February 2019				
	Sterling Ranch Filing #1				0	0	Tracts Only	
	Tract BB (10.545) Branding Iron at Sterling Ranch Filing No. 1				51	17.85	Summary and Letter	5355.0
	Branding Iron Filing No. 2				88	31.07	Revised Feb 20, 2020	9321.0
							(includes School13 SFE/75 Residential)	
	Sterling Ranch Filing #2				61	21.59	Includes 4.29 AF Irrigation	6477.0
	(49 SF lots with 4.29 AF landscaping)				(61 SFE w irrigation)		Revised Feb 10, 2021	
sst	Sterling Ranch Filing No 5	72	24.26				Previously Tract B Branding Iron N2	7278.0
Sterling Ranch West			March 31, 2023 Letter				HOII INZ	
Ranc	Tract G (19.574) Homestead at Sterling Ranch Filing No. 1				72	25.42		7624.8
ling	Tract E (29.658) Homestead at Sterling Ranch Filing No. 2				104	36.71	25-Sep-19	11013.6
Ster	Homestead at Sterling Ranch Filing No 3 (Vacation and Replat)				-2	-0.71	6-Mar-23	-211.5
	Copper Chase at Sterling Ranch	142.9	50.45	17-Dec-21	147.68	52.13	October 12, 2022	15639.0
	resubmittal		138 single family lots 12/21/2021 includes 1.39				138 single family lots includes 1.39 Ac Park additional irrigation	
			Ac Park					
	Cauling Danah Dusliminam Dlan Dhass Tue	214.5	75.719	July, 2020 Re-issue Feb 26, 2021				22715.6
	Sterling Ranch Preliminary Plan Phase Two  Sterling Ranch Filing #4	214.3	75./19	2021	159 Lots (2.667 Acres	51.91	School commitment (13 SFE) contained in Branding Iron Filing #2 above	
	Stelling Ranch Filling				Irrigation) Specific Note 1	31.91		
	Homestead North at Sterling Ranch Preliminary Plan	147	62.47	Letter November 4, 2022 includes 10.58 AFs irrigation			Letter November 4, 2022 includes 10.58 AFs irrigation	18741.0
		77					, and the second	
	Homestead North at Sterling Ranch Filing No. 3	(5.65 acres irrigation)	41.31	Letter dated June 10, 2022 updated November 3, 2022				12393.0
		158						
	Foursquare at Sterling Ranch PUD Preliminary Plan	High Density Units	50.73	Letter dated June 10, 2022 Update November 3, 2022				15219.0
		(1.424 acres irrigation)						
	Villages at Sterling Ranch PUD and Final Plat	High Density Units	67.64		2024 Prior Letters dated June 10, 2022 16, 2022 April, 2024			20292.0
		(1.934 acres irrigation)	07.04				No. 1	20272.0
	Sterling Ranch East Preliminary Phase One	761	335.68	Letter dated June 10, 2022			Note prior commitment for elementary school in Branding Iron No 2	100704.0
		(28.31 acres irrigation)		Revision October 18, 2022				
East	Sterling Ranch East Filing No 1	35 acre K-8 School						
nch l	Sterning Railer Last I ming 100 I				294 SFE, 18.809 acres irrigated	144.15	Letter dated November 15, 2022	
ng Ra	Sterling Ranch East Filing 1A				42 lots; 1.088 acres irrigation	16.85	Letter dated November 15, 2022	
Sterling Ranch East	Current Day of the Control of the Co	1/0						
v)	Sterling Ranch East Preliminary Filing 5	160 (plus 2.42 AF Irrigation)	57.08	Letter dated August 11, 2023				17124
				Letter dated September 27, 2024				
	Sterling Ranch East Filing No 6	198 (plus 2.42 AF Irrigation)	71.46	2024				
		(plus 2.42 Ar irrigation)						
ric	Lot 1 Sterling Crushing Facility SDP	4.27	1.51		Commercial/Industrial 0.25			453
Rhetoric	5 5 7				acres Irrigation			
	Detroot at DrainaDidge Filing No. 1.2 Day Park and Di-	193	70.93	Revised Update September				21279
је)	Retreat at PraireRidge Filing No 1-3 Preliminary Plan			11, 2024	11			
Ridç			wson NNT water is being	augmnented through Case 24	arge rural lots that wil have private well CW 3007 Pending. 4.8 Annual acre-fe	eet of FAWWA LFH water ha		
rairie				supply in Table 3 ) to suppor	t augmentation for the 5 large lots on p	ivate wells		
ss (P								
Jaynes (Prairie Ridge)								
		Total	Findings at Prelin	ninary	Т	otal Findings at Fin	al	
s s	Total Active Commitments Either actual Finding of Sufficiency or	Units	AF		Units	AF		Total Volume
Totals	anticipated Finding	2109.8	917.74		533.7	187.593		310267.7
				Total Active C	nmitments (A.E.	1105.33	1	300-year
				Total Active Cor	nmitments (AF-year)	1103.33		

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 commitments will only track the totals highlighted in yellow. If/when a submitted preliminary plan commitment does not result in a finding of sufficiency and an ensuing finding occurs at final plat, only the final commitment will be tallied.

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

### **APPENDIX G**

### **WATER SUPPLY SUMMARY FORM**



### 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 ade

1. NAME OF DEVELOPMENT A	AS PROPOSED						<u>Sterli</u>	ng Ranch	East Filing No	<u>). 6</u>	
2. LAND USE ACTION								<u>Prelimir</u>	ary Plan		
3. NAME OF EXISTING PARCE	L AS RECORD	ED			<u>N/A</u>						
SUBDIVISION	See Above	FILING	Filing 5	BLOCK	<u>All</u>	Lot	<u>All</u>				
4. TOTAL ACERAGE	<u>56.13</u>	5. NUMBER	R OF LOTS PROPOSE	ED	<u>198</u>	PLAT MA	APS ENCLOSED		□ YES	Preliminary Plan	Separate Cover
6. PARCEL HISTORY - Please a	ttach copies of de	eds, plats, or ot	ther evidence or documer	ntation. (In submittal	package)						
A. Was parcel recorded with c     B. Has the parcel ever been pa     If yes, describe the previou	art of a division			□ YES		NO	≅ YES	□ NO			
7. LOCATION OF PARCEL - In	clude a map deli	niating the pro	oject area and tie to a s	ection corner. (In subr	mittal)						
OFOFSE/4 OF 1SECTION				-	• <u>12</u>		TI COSTILLA	□ N	⊠S	RANGE 65	— □E ¤W
PRINCIPAL MERIDIAN:			□ 6TH	□ N.M.	-016		□ COSTILLA				
8. PLAT - Location of all wells of Surveyors plat	n property must l	e plotted and	permit numbers provid	led. □ NO			If not, scaled han	d -drawn sketc	h ☑ YES	□ NO	N/A
9. ESTIMATED WATER REQUI	REMENTS - Ga	illons per Day	or Acre Foot per Year				10. WATER SUF	PLY SOURCE	E	DENVER BASIN	
							☑ EXISTING	□ DEVE	LOPED	□ NEW WELLS	
HOUSEHOLD USE # *	198	of units	60,117	GPD _	67.34	_AF	WELLS <b>WEL</b>	SPR L Permit Nu		Proposed Ac □ Alluvial	quifers - (Check One) □ Upper Arapahoe
COMMERCIAL USE #		_Acres		GPD _		_AF	-	<u>LFH 80131</u>	<del></del>	□ Upper Dawson □ Lower Dawson	□ Lower Arapahoe □ Laramie Fox Hills
PASSIVE IRRIGATION # **	2.81	acres	2,509	GPD _	2.81	AF				□ Denver	□ Dakota
ACITVE IRRIGATION # **	0.53	acres	1,183	GPD _	1.33	_AF				□ Other	
STOCK WATERING #		of head		GPD - GPD -		_AF	■ MUNICIPAL  □ ASSOCIATI  □ COMPANY			WATER COURT D	ECREE CASE NUMBERS
TOTAL -Central System			62,626	GPD _	71.48	_AF	☑ DISTRICT  NAME_Falcor  Wastewater A		er and	86 CW -019, 17	13; 08 CW-018 CW 3002, 18 CW 3002 3 CW 018, 85 CW 131
**Irrigation included in overa	II use						LETTER OF CO	MMITMENT F	OR NO	<u>1689 BD, 1</u>	690 BD, 1691 BD
11. ENGINEER'S WATER SUP			☑ YES □	NO		If yes, ple		nis form. (This	may be required befo	r our review is completed)	
12. TYPE OF SEWAGE DISPO	SAL SYSTEM		Central Sewer								
SEPTIC TANK/LEACH F	FIELD					□ CENT	RAL SYSTEM -	DISTRICT N	AME:		ater and Watsewater uthority
□ LAGOON						□ VAULT	- LOCATION S	SEWAGE HA	ULED TO:	_	осноту
□ ENGINEERED SYSTEM	(Attach a co	py of engin	eering design)			□ OTHE	R:			_	