# STERLING RANCH

### **METROPOLITAN DISTRICT #1**

### PRELIMINARY WATER RESOURCES And WASTEWATER REPORT For Sterling Ranch Service Area Including The Ranch and The Retreat

December, 2018

Prepared By:



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### **Executive Summary:** Preliminary Water Resources and Wastewater Report—Sterling Ranch Comprehensive Report including The Ranch (Elkhorn) and the Retreat

This report has been prepared as a summary view of the water and potential water to be considered in a sketch plan submittal for The Ranch (Elkhorn). Since the plan is a sketch plan, no Water Report is actually required as the actual demands cannot be determined at this planning level. Further planning levels will provide adequate demand numbers such that a complete Water Report can be prepared.

Sterling Ranch Development consists of approximately 1,444 acres located east of Vollmer Rd and north of Woodmen Rd, Section 33, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M. The land is to be provided water and sewer services through a Metropolitan District known as Sterling Ranch Metropolitan Districts 1, 2, and 3.

Sterling Ranch Metropolitan District has agreed to also serve two additional development areas known as The Ranch (aka Elkhorn) and The Retreat. Each of these development areas are anticipated to form their own Districts and be served via an Intergovernmental Agreement with Sterling.

This report combines the currently available water resources and contingent water resources for each of the development areas as a Comprehensive Water Report. Sterling has been previously represented in former reports, so we will not detail development in this report.

The Ranch consists of 610.47 acres of land and is in sketch plan phase. At the sketch plan level, land use is being presented in a broad range of potential density and land use, therefore we are unable to specify exact water needs, so we consider this report preliminary in nature. The range is between 1,307 and 2,179 residential units with a school and a park, but with a density cap of 2,100.

The total estimated ultimate SFE for Sterling, The Retreat, and The Ranch is 8,081 possible SFE. The water currently and contingently available to Sterling is 3,128.83 annual acre-feet on a 300 year basis which can serve up to 8,863 SFE. Therefore the preliminary conclusion is that Sterling has adequate available and potentially available water to serve all of Sterling, The Retreat, and The Ranch.

### Table A. Summary of Water

Water	Annual 300 Year Supply Availability (Acre-Feet)
Currently Available Legal Supply (Sterling, Retreat, The Ranch)	y 849.2 Acre-Feet
Total Contingent Water Supply (Sterling, Retreat, The Ranch)	2,279.63 Acre-Feet
Total 300-Vear Water Supply	3 128 83 Acre-feet

Total 300-Year Water Supply3,128.83 Acre-feetService Capability8,863. SFE

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### SECTION 1 INTRODUCTION

The purpose of this study if to provide a preliminary water report for the Sterling Comprehensive Service Area. It is expected that this report will be used with The Ranch sketch plan submittal to demonstrate the availability of water supply. This report also presents the results of an analysis of the proposed water system, proposed sources of water supply, and the dependability of the water supply necessary to serve Sterling Ranch Service Area.

### 1.1 New Development Description:

Sterling Ranch Development consists of approximately 1,444 acres located east of Vollmer Rd and north of Woodmen Rd, Section 33, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M. Districts 1, 2 and 3 are considered Special Districts and are under the jurisdiction of the Special District Act

1,119 acres is designated for 5,225 residential units. 56.36 acres is designated for commercial use. 270 acres is designated for open space, greenways, trails, parks, and school sites.

The Retreat at TimberRidge has a total of 41 Rural sized lots to be served by single family wells and septics. Additionally The Retreat has 164 single family lots that are anticipated to be served by the Central Sterling system. Although the Table for water supply notes the water resources for the rural component of the Retreat, we have not calculated that source nor that demand into the central system figures

The Ranch is on 610.47 acres and estimates a single family dwelling demand of between 1307 and 2179 units along with a Park and School. For the purpose of this report we will estimate the demand at 2100 SFE.

Appendix A is a map of The Ranch Sketch Plan.

### SECTION 2 PROJECTION OF WATER NEEDS

### 2.1 Expected Water User Characteristics:

It is expected that the residential lots will be developed with single family housing anticipating turf grass landscaping of less than 3,000 square feet per lot. There are a few larger irrigation users anticipated for the development. There are a limited number of Schools, parks, and commercial acreages that we have converted to Single Family Equivalents (SFE). The unit user characteristic employed is consistent with Sterling, The Retreat and other developed areas in the Falcon area. That value is 0.353 AF per SFE annually.

### 2.2 Summary of Expected Demands

The overall Sterling Area water need includes Sterling Ranch, The Retreat, and The Ranch (Elkhorn). A breakdown by service area of the ultimate annual water need is as follows;

## Table 1 Projected Water Demands and Loads for Sterling Ranch Service Area including service to The Retreat and The Ranch

Service Area	SFE	Water-Acre Feet
Sterling Ranch	5,817	2,053.4
The Ranch (Elkhorn)	2,100	741.3
The Retreat	<u>164</u>	<u>57.9</u>
	8,081	2,852.6

### Total Annual Demand of the Sterling Service Area -is 2,852.6 Acre-Feet

### SECTION 3 PROPOSED 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 Sterling Service area include both decrees, and determinations. In addition to groundwater adjudicated under the various service areas, Sterling has contracted for numerous off-site groundwater acquisitions which include three major sites.

Table 2 is a table detailing all of the water rights currently and potentially available for the Sterling Service Area.

The three local groundwater rights are associated with the three service area portions; Sterling, Retreat, and The Ranch. Each of these sites has existing decrees and/or determinations outlining the rights associated with the development lands. It is noteworthy that the Retreat proposes that 41 rural style lots will be developed using single family wells and septics. In Table 2, we have noted the rights associated with those proposed wells, but we have not included those rights in the calculations for water available to the central system.

The documentation for the rights associated with Sterling and Retreat are not attached as they have been previously submitted with other prior reports, but the summaries are included here. The rights associated with The Ranch are included in the Appendix, because they have not previously been shown. The Bar-X site is north of Hodgen Road and the contract for water purchase anticipates a phased "takedown" of rights over time. Sterling has already exercised the initial takedown of the Laramie Fox Hills component of that water. The decrees and contracts were previously submitted in prior reports. A difference is that the initial takedown is now counted as available supply.

The Younger decree 99CW 214 decrees water greater than that enumerated in the Contract for purchase which is also attached. Only that portion of the water contracted for purchase is presented in Table 2.

The third contracted right is known as the McCune rights. These rights are outlined in three Determinations 1689-BD Laramie Fox Hills, 1690-BD Arapahoe, and 1691 –BD Denver. All of these rights are non-tributary.

The total currently available legal supply for the Sterling Service Area is 849.2 annual acre-feet on a 300 year basis. This water will be able to serve initial development of up to 2,405 SFEs.

The total additional contingent water legal supply is 2,279.63 annual acre-feet on a 300 year basis, which would be capable of supplying an additional 6,458 SFE's which is more than adequate to serve the long term needs of the Sterling Service Area which includes Retreat and The Ranch.

Some additional change in use and location will be needed to fully develop some of the contingent water supply. The change to add "Municipal" as a beneficial use is relatively simple for any quasi-municipal agency.

Table 2 Sterling Ranch Metropolitan District Comprehensive Water Supply Inventory

Contingent Supplies

<u>Table 2</u>
Sterling Ranch Metropolitan District
Comprehensive Water Supply Inventory
Currently Available Supply

	Finding/			Annual	Annual	Approved			rated
Land Formation/Aquifer	Determination/ Decree	Tributary Status	Volume	Allocation 100 Year	Allocation 300 Year	Well Locaions	Notes	Sand Thickness	Specif Yield
			Acre-Feet	A-F/Year	A-F/Year				
Laramie Fox Hills	96 CW 10				g Water Legal		U. J 1410	255	150/
Laramie Fox Hills	86-CW-19 08CW113	NT NT	53,900 40	539.00 0.40	179.67 0.13	KLF-1 - KLF-4	Under 1410 acres Under 41.44 acres,	255	15%
	08CW115	NI	40	0.40	0.15		,		
							reduced to 1.44 acres		
Arapahoe	86-CW-18	NT	57500	575.00	191.67	KA-1 - KA-4	Under 1410 acres	240	17%
	Cı	urrently Avail	able On-Site	Elkhorn (The	Ranch) Water	r Legal Sources			
Laramie Fox Hills	<u>0</u>	NT	17,000	170.00	56.67		646.029 acres		
			.,						
Arapahoe		NT	23600	236.00	78.67		646.029 acres		
-									
Denver NNT		NNT	32900	329.00	109.67		646.029 acres		
		Currently Av	ailable On-Si	ite Retreat Wa	ter Legal Sou	rces (Note 1)			
Laramie Fox Hills	17CW3002	NT	6,440				Under 225.97 acres	190	15%
LFH (Relinquishment)	18CW3002	NT	-2,796						
			3,644	36.44	12.15				
			- / -						
Arapahoe	17CW3002	NT	9,796	97.96	32.65		Under 225.97 acres	255	17%
Laramie Fox Hills	16CW3095	NT	1,005	10.05	3.35		Under 35.28 Acres	190	15%
Arapahoe	16CW3095	NT	1,499				Under 35.28 Acres	250	17%
Arapahoe (Relinquishment)	16CW3095	NT	-1,324	1.75	0.50				
			175	1.75	0.58				
Legal Supply: Phase 3,									
Phase 4 (excluding Lots 39-41)			14,620	146.20	48.73	20.0° 1 E 'I W II			
Augmentation (Dawson NNT)	18CW3002	Aug	2,796	27.96	9.32	29 Single Family Wells [Phase 2 (excluding Lots 11-	Replace a min of 34% of		
ruginentation (Dawson 10101)	100 (13002	1145	2,790	21.50	7.52	12); Lots 39, 40 & 41 of	Replace a min or 5476 or		
Legal Supply: Phase 2					9.32	Phase 4; & 5]			
Augmentation (Dawson NNT)	16CW3095	Aug	1567.5	15.68	5.23	,,	Replace actual depletions		
,									
Legal Supply Phase 1					5.23	(Phase 1)			
		Curr	ently Availab	ble Off-Site (	Fround Water	r Legal Sources			
Augmentation (Dawson NNT)	18CW3005 (Pending)	Aug	240.0	2.40	0.80	(Phase 2 - Lots 11 &12)	pumping		
2)			240.0	2.4	0.8				
				•				•	
		Currently Av	ailable Off-Si	te Sterling Wa	ter Legal Sou	urces (Bar-X)			
Laramie Fox Hills	93-CW-018	NT	55,200	552.00	184.00		Shamrock/Bar-x Rights	200	15%
							-		
tal Current Available 300-Year V	Vater Supply				849.2				
						ot included in the Total Availab			

	Finding/			Annual	Annual	Approved		Satu	rated
Land	Determination/	Tributary	Volume	Allocation	Allocation	Well	Notes	Sand	Specific
Formation/Aquifer	Decree	Status		100 Year	300 Year	Locaions		Thickness	Yield
			Acre-Feet	A-F/Year	A-F/Year				
		Contin	gent On-site Ste	rling Ground V	Vater Sources (N	lote 2)			
Arapahoe	08CW113	NNT	60	0.60	0.20		Under 41.44 acres,	251.4	17%
Arapanoe	000 115		00	0.00	0.20		reduced to 1.44 acres	231.4	1770
Denver	08CW113	NNT	72,893	728.9	242.97		Replace 4%	313.8	17%
Denver	000 1110		12,070	12017	212177		Teplace 170	51510	1770
Dawson	08CW113	NNT	39,247	392.5	130.83		Replace actual depletions	145.8	20%
otal Additional Con	tingent Supply Ste	rling (without a	augmentation)		243.0				
	, ,	<u>Conti</u>	igent Off site B	ar-X Ground W	ater Sources (N	<u>ote 3)</u>			
Arapahoe	93-CW-018	NT	81300	813.00	271.00		Shamrock/Bar-x Rights	260	17%
Denver	93-CW-018	NT	136000	1360.00	453.33		Shamrock/Bar-x Rights	435	17%
Dawson	93-CW-018	NNT	166300	1663.00	554.33		Need Augmentation Plan	490	20%
Dawson	93-C W-018	ININI	100500	1005.00	554.55		Need Augmentation I fair	490	2070
otal Additional Con	tingent Supply Ba	r-X (without au	gmentation)		724.33				
		<i>a</i>				· · · · ·			
Laramie Fox Hills	1689-BD	<u>Conting</u> NT	26,300	263.00	Water Sources (1 87.67	<u>Note 4)</u>	900.52 acres		
Laranne Fox Thus	1009-00	N1	20,300	203.00	87.07		900.52 acres		
Arapahoe	1690-BD	NT	39800	398.00	132.67		900.52 acres		
Denver	1691-BD	NT	52800	528.00	176.00		900.52 acres		
					20( 22				
otal Contingent Sup	ply McCune (with	iout augmentat	10n)		396.33				
		<u>Conting</u>	gent Off site You	unger Ground	Water Sources (1	<u>Note 5)</u>			
			00.000	000.00	212.00				
Arapahoe Denver	99 CW 214 99 CW 214	NT NT	93,900 180,900	939.00 1809.00	313.00 603.00				
Denver	99 C w 214	IN I	180,900	1809.00	005.00				
otal Contingent Wat	ter Supply Younge	er (without aug	mentation)		916.00				
-									
otal Contingent Wat	ter Supply under c	contract or othe	rwise potential	y available to	2,279.63				

	Finding/			Annual	Annual	Approved		Satu	rated
Land	Determination/	Tributary	Volume	Allocation	Allocation	Well	Notes	Sand	Specific
Formation/Aquifer	Decree	Status		100 Year	300 Year	Locaions		Thickness	Yield
			Acre-Feet	A-F/Year	A-F/Year				
		Contin	gent On-site Ste	rling Ground V	Vater Sources (N	lote 2)			
Arapahoe	08CW113	NNT	60	0.60	0.20		Under 41.44 acres,	251.4	17%
Thupanoe	00001115		00	0100	0.20		reduced to 1.44 acres	20111	1770
Denver	08CW113	NNT	72,893	728.9	242.97		Replace 4%	313.8	17%
Dawson	08CW113	NNT	39,247	392.5	130.83		Replace actual depletions	145.8	20%
			,	392.3	243.0		Replace actual depletions	143.8	2070
otal Additional Con	ungent Suppry Ste	ring (without a	augmentation)		243.0				
		Conti	ngent Off site B	ar-X Ground W	ater Sources (N	ote 3)			
	02 (11) 010		01000	012.00	251.00			2.00	170
Arapahoe	93-CW-018	NT	81300	813.00	271.00		Shamrock/Bar-x Rights	260	17% 17%
Denver	93-CW-018	NT	136000	1360.00	453.33		Shamrock/Bar-x Rights	435	17%
Dawson	93-CW-018	NNT	166300	1663.00	554.33		Need Augmentation Plan	490	20%
Dawson	JJ-C 11-010	i i i i i i i i i i i i i i i i i i i	100500	1005.00	554.55		Need Augmentation I lan	470	2070
otal Additional Con	tingent Supply Ba	r-X (without au	gmentation)		724.33				
		Contin	ent Off site Mc	Cune Ground	Water Sources (1	Note 4)			
Laramie Fox Hills	1689-BD	NT	26,300	263.00	87.67	<u>1010 4)</u>	900.52 acres		
Arapahoe	1690-BD	NT	39800	398.00	132.67		900.52 acres		
Denver	1691-BD	NT	52800	528.00	176.00		900.52 acres		
Denver	1071 00		52000	520.00	170.00		500.52 deres		
otal Contingent Sup	ply McCune (with	nout augmentat	ion)		396.33				
							•		
		Contin	gent Off site You	unger Ground	Water Sources (1	Note 5)			
			00.000	000.00	212.00	1	1		
Arapahoe Denver	99 CW 214 99 CW 214	NT NT	93,900 180,900	939.00 1809.00	313.00 603.00				
Denver	JJ C W 214	181	100,200	1007.00	005.00				
otal Contingent Wat	ter Supply Younge	er (without aug	mentation)		916.00				
otal Contingent Wat	ter Supply under c	contract or othe	rwise potential	y available to a	2,279.63				

	Finding/			Annual	Annual	Approved		Satu	rated
Land	Determination/	Tributary	Volume	Allocation	Allocation	Well	Notes	Sand	Specific
Formation/Aquifer	Decree	Status		100 Year	300 Year	Locaions		Thickness	Yield
			Acre-Feet	A-F/Year	A-F/Year				
		Contin	gent On-site Ste	erling Ground V	Water Sources (1	Note 2)			
A	00000112	NINT	60	0.00	0.20		T. J 41 44	251.4	170/
Arapahoe	08CW113	NNT	60	0.60	0.20		Under 41.44 acres,	251.4	17%
Denver	08CW113	NNT	72,893	728.9	242.97		reduced to 1.44 acres Replace 4%	313.8	17%
Deliver	000 0115	11111	12,075	720.9	242.97		Replace 470	515.6	1770
Dawson	08CW113	NNT	39,247	392.5	130.83		Replace actual depletions	145.8	20%
Total Additional Con	tingent Supply Ste	rling (without a	augmentation)		243.0				
							•		
		Conti	ngent Off site B	ar-X Ground W	ater Sources (N	ote 3)			
Arapahoe	93-CW-018	NT	81300	813.00	271.00		Shamrock/Bar-x Rights	260	17%
Denver	93-CW-018	NT	136000	1360.00	453.33		Shamrock/Bar-x Rights	435	17%
Dawson	93-CW-018	NNT	166300	1663.00	554.33		Need Augmentation Plan	490	20%
			l						
Total Additional Con	tingent Supply Ba	r-X (without au	gmentation)		724.33				
		Contin	gent Off site Ma	Cune Ground	Water Sources (I	Note 4)			
Laramie Fox Hills	1689-BD	NT	26,300	263.00	87.67	1012 47	900.52 acres		
Arapahoe	1690-BD	NT	39800	398.00	132.67		900.52 acres		
Denver	1691-BD	NT	52800	528.00	176.00		900.52 acres		
Total Contingent Sup	nly McCune (with	nout sugments	l tion)		396.33				
roun conungent Sup		iout augmenta			570.55				
		Contin	gent Off site Yo	unger Ground	Water Sources (I	Note 5)			
Arapahoe	99 CW 214	NT	93,900	939.00	313.00				
Denver	99 CW 214	NT	180,900	1809.00	603.00				
Total Contingent Wa	ter Supply Voung	er (without oue	mentation)		916.00				
rotar Contingent Wa		. (without allg			910.00				
Total Contingent Wa	ter Supply under o	contract or othe	rwise potential	ly available to !	2,279.63				
			- Ferritaria		_,				
	1			1			1		

	Finding/			Annual	Annual	Approved		Satu	rated
Land Formation/Aquifer	Determination/ Decree	Tributary Status	Volume	Allocation 100 Year	Allocation 300 Year	Well Locaions	Notes	Sand Thickness	Specific Yield
· · · · · · ·			Acre-Feet	A-F/Year	A-F/Year				
		Contin	gent On-site Ste	rling Ground V	Vater Sources (N	lote 2)			
Arapahoe	08CW113	NNT	60	0.60	0.20		Under 41.44 acres,	251.4	17%
Denver	08CW113	NNT	72,893	728.9	242.97		reduced to 1.44 acres Replace 4%	313.8	17%
Dawson	08CW113	NNT	39,247	392.5	130.83		Replace actual depletions	145.8	20%
Fotal Additional Con	tingent Supply Ste	erling (without a	ugmentation)		243.0				
		Contir	igent Off site Bo	ur-X Ground W	ater Sources (No	ote 3)			
		00000	<u>xem on sue p</u>		arer bources (1)	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
Arapahoe Denver	93-CW-018 93-CW-018	NT NT	81300 136000	813.00 1360.00	271.00 453.33		Shamrock/Bar-x Rights Shamrock/Bar-x Rights	260 435	17% 17%
Dawson	93-CW-018	NNT	166300	1663.00	554.33		Need Augmentation Plan	490	20%
Fotal Additional Con	 tingent Supply Ba	r-X (without au	amentation)		724.33				
Total Additional Con	ungent Supply Du	i X (without au	Sincintation)		124655				
					Water Sources (N	Note 4)			
Laramie Fox Hills	1689-BD	NT	26,300	263.00	87.67		900.52 acres		
Arapahoe	1690-BD	NT	39800	398.00	132.67		900.52 acres		
Denver	1691-BD	NT	52800	528.00	176.00		900.52 acres		
Fotal Contingent Sup	ply McCune(with	hout augmentat	ion)		396.33				
	1						1		
		<u>Conting</u>	gent Off site You	unger Ground V	Water Sources (N	Note 5)			
Arapahoe	99 CW 214	NT	93,900	939.00	313.00		1		
Denver	99 CW 214 99 CW 214	NT	180,900	1809.00	603.00				
		er (without aug	mentation)		916.00				
Fotal Contingent Wat	ter Supply Young		, i i i						
Fotal Contingent Wat				v available to	2,279.63				

Note 2 This water noted as Denver NNT requires augmentation, but using other sources, Sterling could make the water available using alternate sources as augmentation Note 3 This water is also termed the Bar-X water. The sources listed in this table are under contract to Sterling. As the Contract "take-down" proceeds, these supplies will be become the property of Sterling and can be made available for use at Sterling. The Laramie Fox Hills Water has been deeded to Sterling

Note 4 This water is also termed the McCune water. The sources listed in this table are under contract to Sterling. Note 5 The Younger water decreed under 99CW 214 includes more water than noted above. The SR Water LLC contracted to purchase only the amounts designated in this table

and only within the Arapahoe and Denver formations

### 3.2 Source of Supply:

Municipal water demand would be met using primarily Arapahoe and Laramie-Fox Hills formation wells in the Sterling area. The first well site will be drilled with an Arapahoe Well (A-1) and Laramie-Fox Hills Well (LFH-1). Well site #1 includes both an Arapahoe and a Laramie Fox Hills well. Permits will be obtained as needed to ultimately continue to add to the system as needed.

Off site water to the north of the Sterling Service Area is generally in the Denver and Arapahoe formations. Some Laramie Fox Hills water has been contracted for and can be either physically accessed or used to augment NNT water not otherwise counted in Table 2.

Initially on-site water source will be used to supply early development. A northern pipeline needed to access Bar-X, McCune, and Younger is already in the stages of easement acquisition and permitting.

3.3 Water Quality and Treatment:

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

### 3.4 Water Storage, Distribution and Transmission Lines

An initial tank has already been constructed at the Sterling site.

For the purpose of fire protection, we recommend eight inch lines throughout the residential subdivision. The lines should be looped wherever street layout allows. A transmission line of a minimum of 18 inch diameter should be extended south-southwesterly along one of the major roadways from the Storage tank into Phase One of the development.

3.5 Pumping for Service Pressures:

Ground elevations within the development service area range from approximately 6,970 to 7,320. 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. Initial development is anticipated to be at elevations below 7,190 so the tank site will be able to provide adequate pressure.

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

### SECTION 4 WASTEWATER AND WASTEWATER TREATMENT

### 4.1 Wastewater Loads

Wastewater projections are based on similar District historical use. Average daily wastewater loads are expected to be roughly 172 gallons per day per single family residence. From Table 1, it is estimated that 8081 SFEs may be developed in the service area. The number remains preliminary because of the sketch plan level of The Ranch.

	<u>Table 3</u>
<u>Projected W</u>	Vastewater Loads for Sterling Ranch Service Area
<u>SFE</u>	Load
8081	1,389,932 gallons/day

### 4.2 Wastewater Collection and Pumping

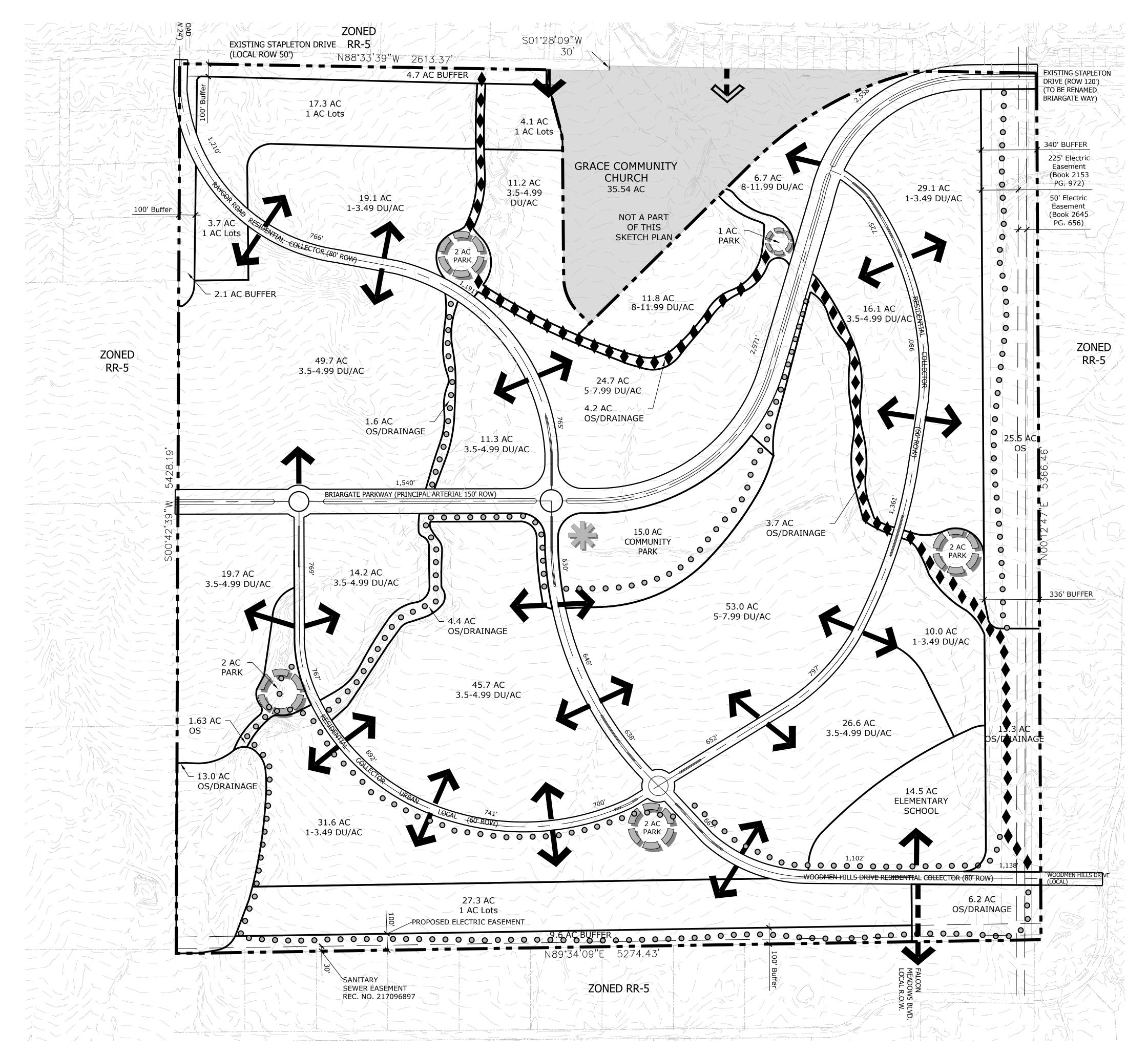
All lands to be developed within Sterling Ranch and the Retreat will gravity feed to the southern portion of the Sterling site. This will be the main collection point for most of the entire future development as well. Sterling is under construction of the Lift Station and Force Main to serve the area. The force main will traverse across the lower portion of The Ranch. The Ranch will add man additional injection lift station and contribute to the force main within the Ranch boundaries. From this point wastewater is intercepted by Meridian Service Metropolitan District.

### 4.3 Wastewater Treatment

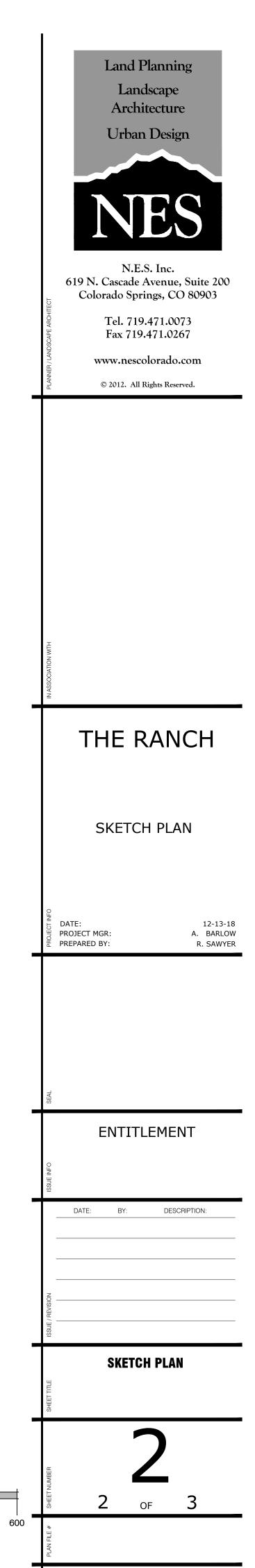
Meridian Service Metropolitan District has contracted with Sterling Ranch Metropolitan District for the provision of wastewater treatment services.

It is expected that MSMD will treat wastewater flows through its participation in the Cherokee wastewater treatment facility. The Cherokee Wastewater Facility is in compliance with their current COC issued by the Colorado Department of Public Health and Environment.

Appendix A



### THE RANCH SKETCH PLAN LOCATED IN SECTION 35, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN



### LAND USE TABLE

Land Use		Minimum	Maximum	Percentage
Land Use	Acres (AC)	No. of units	No. of units	Land Use (%)
Residential				
1 DU/AC	52.4	N/A	52	8.58%
1-3.49 DU/AC	89.8	90	313	14.71%
3.5-4.99 DU/AC	194.5	681	971	31.86%
5-7.99 DU/AC	77.7	389	621	12.73%
8-11.99 DU/AC	18.5	148	222	3.03%
Park	24			3.93%
Buffer	16.4			2.69%
Open Space/Drainage	73.5			12.04%
School	14.46			2.37%
ROW	49.21			8.06%
TOTAL	610.47	1307	2179	100

Density Cap = 2,100 Dwelling Units

PROPERTY LINE

LAND USE BOUNDARY

OPEN SPACE & DRAINAGE

URBAN LOCAL ROADS (50' ROW)

INTERIM EMERGENCY ACCESS

PERMANENT EMERGENCY ACCESS ONLY

NEIGHBORHOOD COMMERCIAL/COMMUNITY FACILITY

150 300

SCALE: 1" = 300'

PARK

REGIONAL COUNTY TRAIL

INTERNAL TRAIL

### LEGEND

**\*\*\*** 

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Appendix B

### DISTRICT COURT, WATER DIVISION 1, COLORADO

Case No. 99CW214

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

IN THE MATTER OF THE APPLICATION OF YOUNGER FAMILY PARTNERSHIP, LTD., LLLP, NORMAN B. YOUNGER, DELORES J. YOUNGER, REX YOUNGER, AND GINA YOUNGER,

IN THE NONTRIBUTARY DENVER, ARAPAHOE AND LARAMIE-FOX HILLS AND THE NOT NONTRIBUTARY DENVER AND DAWSON AQUIFERS,

### IN EL PASO COUNTY.

THIS APPLICATION, having been filed with the Water Clerk, Water Division 1, on December 27, 1999, and all matters contained in the application having been reviewed, and such testimony having been taken and evidence presented as was necessary, and being otherwise fully advised in the premises, it is hereby the Ruling of the Referee as follows:

### FINDINGS OF FACT

1. Name, Address and Telephone Number of Applicants:

Younger Family Partnership, Ltd., LLLP, Norman B. Younger, Delores J. Younger, Rex Younger, and Gina Younger 5060 Walker Road Colorado Springs, Colorado 80908-1333 (719)-649-7775

719 648 - 5270

2. Objections: No statements of opposition to the application were filed, and the time for filing such statements has expired.

3. Subject Matter Jurisdiction: Notice of the application was duly given in the manner required by law and the Court has jurisdiction over the subject matter and over all who have standing to appear as parties, whether they have appeared or not.

### Ruling and Decree 99CW214 Page 2

Aquifers and Location of Groundwater: Applicants seek a decree for rights to 4. all groundwater recoverable from the not nontributary Dawson underlying all the Subject Property herein and not nontributary Denver aquifer underlying approximately 79 acres located in the W1/2NW1/4 of Section 15, and from the nontributary Denver aquifer underlying all the Subject Property herein, except for the 79 acres located in Section 15 described above, and the nontributary Arapahoe and Laramie-Fox Hills aquifers underlying all of the Subject Property herein. The Subject Property is comprised of approximately 2312 acres of land located in parts of Sections 1, 3, 4, 9, 10, 11, 12, 13 and 15, T11S, R66W of the 6th P.M., as more particularly described and shown on Attachment A hereto ("Subject Property"). For purposes of this decree, the Subject Property is divided into three parcels as shown on Attachment A, and the decreed amounts of water are associated with these parcels as described below, however, all water decreed herein can be withdrawn in combination with water underlying other parcels as long as Rule 11.B of the Statewide Nontributary Ground Water Rules (2 CCR 402-7) is satisfied. Applicants are the owners of the Subject Property, and such land is not located within the boundaries of a designated groundwater basin. Applicants are owners of different parts of the Subject Property and the associated groundwater rights as specifically described below.

5. Well Locations and Annual Amounts: The wells which will withdraw the groundwater described below from the not nontributary Dawson and Denver and the nontributary Denver, Arapahoe and Laramie-Fox Hills aquifers will be located at any location on the Subject Property, pursuant to §37-90-137(4), C.R.S., except that the any wells withdrawing not nontributary Denver aquifer water must be located in the W1/2NW1/4 of Section 15 (Parcel 3). Applicants hereby waive any 600 foot spacing rule for its own wells, but must satisfy §37-90-137(4), C.R.S., for wells owned by others on adjacent properties. Because the Subject Property is comprised of noncontiguous parcels as described below, the total amount of water decreed herein and associated with one parcel, may only be withdrawn through a well located on a noncontiguous parcel if Rule 11.B of the Statewide Nontributary Ground Water Rules (2 CCR 402-7) is satisfied. The following amounts are available for withdrawal subject to the Court's retained jurisdiction in this matter, and represent each Applicants interest and ownership in the total amount of water decreed herein:

A. <u>Younger Family Partnership, Ltd., LLLP</u>, is the owner of approximately 1793 acres of the Subject Property as shown on Attachment B hereto, and the following amounts of decreed water:

### PARCEL 1 WATER(533 ACRES)

	Saturated	
Aquifer	Thickness	Annual Amount
Dawson	405 feet	386.7 acre-feet(NNT)*
Denver	549 feet	497.3 acre-feet(NT)
Arapahoe	270 feet	244.7 acre-feet(NT)
Laramie-Fox Hills	213 feet	170.4 acre-feet(NT)

\*Annual amount reduced by 45 acre-feet annually from the amount available as referenced in the Determination of Facts for the Dawson aquifer issued in this case on May 7, 2000, which water will be available for any uses which are legally available at the time well permit applications are filed. Said 45 acre-feet (4500 acre-feet total) may also be available to be withdrawn through 15 wells to be located on said 533 acres (8.44 acre-feet per surface acre).

### PARCEL 2 WATER(1260 ACRES)

	Saturated	
<u>Aquifer</u>	Thickness	Annual Amount
Dawson	445 feet	1011.4 acre-feet(NNT)*
Denver	513 feet	1099.0 acre-feet(NT)
Arapahoe	262 feet	561.4 acre-feet(NT)
Laramie-Fox Hills	214 feet	404.4  acre-feet(NT)
		1010 acto-teet( $101$ )

\*Annual amount reduced by 1 acre-foot for existing well Permit No. 128530A and reduced by 108 acre-feet annually from the amount available as referenced in the Determination of Facts for the Dawson aquifer issued in this case on May 7, 2000, which water will be available for any uses which are legally available at the time well permit applications are filed. Said 108 acre-feet (10,800 acre-feet total) may also be available to be withdrawn through 36 wells to be located on said 1260 acres (8.57 acre-feet per surface acre).

B. <u>Norman B. and Delores J. Younger</u>, are the owners of approximately 439 acres of the Subject Property as shown on Attachment C hereto, and the following amounts of decreed water:

PARCEL 1 WATER(40 ACRES)

Aquifer
Dawson
Denver
Arapahoe
Laramie-Fox Hills

Saturated <u>Thickness</u> 405 feet 549 feet 270 feet 213 feet # Dot #Annual Amount29.4 acre-feet(NNT)\*37.2 acre-feet(NT)18.5 acre-feet(NT)12.9 acre-feet(NT)

Church Pasture

\*Annual reduced by 3 acre-feet annually from the amount available as referenced in the Determination of Facts for the Dawson aquifer issued in this case on May 7, 2000, which water will be available for any uses which are legally available at the time well permit applications are filed. Said 3 acre-feet (300 acre-feet total) may also be available to be withdrawn through 1 well to be located on said 40 acres (7.5 acre-feet per surface acre).

### PARCEL 2 WATER(320 ACRES)

<u>Aquifer</u> Dawson Denver Arapahoe	Saturated <u>Thickness</u> 445 feet 513 feet 262 feet	<u>Annual Amount</u> 257.6 acre-feet(NNT)* 279.0 acre-feet(NT) 142.6 acre-feet(NT)
Laramie-Fox Hills	214 feet	102.6 acre-feet(NT)

\*Annual amount reduced by 1 acre-foot associated with existing Well Permit No. 22156A and reduced by 27 acre-feet annually from the amount available as referenced in the Determination of Facts for the Dawson aquifer issued in this case on May 7, 2000, which water will be available for any uses which are legally available at the time well permit applications are filed. Said 27 acre-feet (2700 acre-feet total) may also be available to be withdrawn through 9 wells to be located on said 320 acres (8.43 acre-feet per surface acre).

PARCEL 3 WATER(79 ACRES)

Rael Pasture

	Saturated		*	0
<u>Aquifer</u>	<u>Thickness</u>	Annual Amount		
Dawson	437 feet	63.0 acre-feet(NNT)*		
Denver	558 feet	75.0 acre-feet(NNT)		
Arapahoe	2.57 feet	35.0 acre-feet(NT)		
Laramie-Fox Hills	207 feet	25.0 acre-feet(NT)		

\*Annual reduced by 6 acre-feet annually from the amount available as referenced in the Determination of Facts for the Dawson aquifer issued in this case on May 7, 2000, which water will be available for any uses which are legally available at the time well permit applications are filed. Said 6 acre-feet (600 acre-feet total) may also be available to be withdrawn through 2 wells to be located on said 79 acres (7.59 acre-feet per surface acre).

C. <u>Rex and Gina Younger</u>, are the owners of approximately 80 acres of the Subject Property, being the S1/2NW1/4 of Section 3, as shown on Attachment C hereto, and the following amounts of decreed water:

Sold Youtx

### PARCEL 1 WATER(80 ACRES)

	Saturated	
<u>Aquifer</u>	<u>Thickness</u>	Annual Amount
Dawson	405 feet	58.9 acre-feet(NNT)*
Denver	549 feet	74.5 acre-feet(NT)
Arapahoe	270 feet	36.8 acre-feet(NT)
Laramie-Fox Hills	213 feet	25.7 acre-feet(NT)

\* Annual amount reduced by 3 acre-feet for existing well Permit No. 146322 and by 3 acre-feet annually from the amount available as referenced in the Determination of Facts for the Dawson aquifer issued in this case on May 7, 2000, which water will be available for any uses which are legally available at the time well permit applications are filed. Said 3 acre-feet (300 acre-feet total) may also be available to be withdrawn through 1 well to be located on a 40 acre tract (7.5 acre-feet per surface acre).

All amounts and values conform with the State Engineer's Determination of Facts for each aquifer dated May 7, 2000.

6. Proposed Uses of Water: The groundwater claimed herein will be used, reused, and successively used, leased, sold, and otherwise disposed of for municipal, domestic, industrial, agricultural, commercial, irrigation, stock watering, recreation, fish and wildlife, fire protection, augmentation, substitution and exchange, both on or off the Subject Property. The waters will be withdrawn through the wells described herein for immediate application to beneficial use, for storage and subsequent application to beneficial use, for replacement of depletions resulting from the use of water from other sources and for all other augmentation purposes, including taking credit for all return flows as augmentation for or as offsets against out-of-priority tributary depletions.

7. Estimated Average Pumping Rate and Well Depths: The wells decreed herein will withdraw the subject groundwater at rates of flow necessary to efficiently withdraw the groundwater. The well depths will conform with the locations of the subject aquifers as referenced in the State Engineer's Determination of Facts for each aquifer or actual aquifer characteristics.

8. Final Average Annual Amounts of Withdrawal:

A. Final determination of the applicable average saturated sand thicknesses and resulting average annual amounts available to Applicants will be made pursuant to the retained jurisdiction of this Court, as described in Paragraph 16 hereinbelow. In the event this decree is not reopened for a further quantitative determination, the findings herein are final and controlling.

### Ruling and Decree 99CW214 Page 6

B. The allowed total annual amount of groundwater which may be withdrawn through the wells specified above and any additional wells, pursuant to 37-90-137(10), C.R.S., 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 any 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 Groundwater and Limitations on Consumption:

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A. The groundwater to be withdrawn from the Denver aquifer underlying all the Subject Property except for the Parcel 3 land, and the Arapahoe and Laramie-Fox Hills aquifer water underlying all the Subject Property is "nontributary groundwater" as defined in \$37-90-103(10.5), C.R.S., 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 groundwater to be withdrawn from the Dawson aquifer underlying all the Subject Property and the Denver aquifer underlying Parcel 3 is "not nontributary" as defined in \$37-90-137(9)(c) and 37-90-103(10.7), C.R.S. and such water may not be withdrawn until such time as a plan for augmentation has been approved by this court in a separate application.

B. Applicants may not consume more than 98% of the annual quantity of water withdrawn from the nontributary 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 Applicants and satisfactory to the State Engineer, so long as Applicants can demonstrate that an amount equal to 2% of such withdrawals (by volume) has been relinquished to the stream system.

C. There is unappropriated groundwater available for withdrawal from the subject aquifers beneath the Subject Property, and the vested water rights of others will not be materially injured by such withdrawals as described herein. Withdrawals hereunder are allowed on the basis of an aquifer life of 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.

### 10. Additional Wells and Well Fields:

A. In addition to the wells described above, Applicants may construct additional and replacement wells in order to maintain levels of production, to meet water supply demands or to recover the entire amount of groundwater decreed herein 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., for evaluation by the Division of Water Resources.

B. Two or more wells constructed into the aquifer shall be considered a well field. In effecting production of water from such well field, Applicants may produce the entire amounts decreed herein and which may be produced hereunder through any combination of wells within the well field.

C. In considering applications for permits and for additional wells to withdraw the groundwater 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.

D. In the event that the allowed average annual amounts decreed herein are adjusted pursuant to the retained jurisdiction of the Court, Applicants shall obtain permits to reflect such adjusted average annual amounts prior to withdrawing the adjusted amounts. Subsequent permits for any wells herein shall likewise reflect any such adjustment of the average annual amounts decreed herein.

11. Conditions:

For each well constructed pursuant to this decree, Applicants shall comply with the following conditions:

A. A totalizing flow meter shall be installed on the well discharge pipe prior to withdrawing any water therefrom, and shall be maintained and operational at all times for the life of the well. Applicants shall keep accurate records of all withdrawals by the well, make any calculations necessary, and submit such records to the Water Division 1 Engineer upon request.

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. Applicants 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.

Ruling and Decree 99CW214 Page 8

C. Groundwater production shall be limited to the subject aquifers. 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 aboveground portion of the well casing or on the pumphouse.

### CONCLUSIONS OF LAW

12. 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. §37-90-137(4), C.R.S. The application for a decree confirming Applicants' rights to withdraw and use all groundwater from the nontributary aquifers beneath the property as described herein pursuant to §37-90-137(4), C.R.S., should be granted, subject to the provisions of this decree. The nature and extent of the rights not nontributary and nontributary groundwater determined herein are defined by §§37-90-137(4), 37-90-137(9), and 37-90-137(9)(c), C.R.S. The withdrawal of the groundwater decreed herein in accordance with the terms of this decree will not result in material injury to vested water rights of others.

13. The rights to groundwater 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., and findings of reasonable diligence are not applicable to the groundwater rights determined herein. The determination of groundwater rights herein need not include a date of initiation of the withdrawal of water. See \$37-92-305(11), C.R.S.

IT IS THEREFORE, ORDERED, ADJUDGED, AND DECREED THAT:

14. The Findings of Fact and Conclusions of Law are incorporated into this Decree of the Water Court.

15. Right to Withdraw Groundwater:

Applicants may withdraw the total amounts of not nontributary and nontributary groundwater decreed herein through wells located on the subject property or any additional wells necessary for the full production of the subject water, in the average annual amount specified herein, subject to the limitations herein and the retained jurisdiction of this Court. In accordance with §37-90-137(9)(c), C.R.S., the water decreed herein from the not nontributary Dawson and Denver aquifers will not be withdrawn until a separate plan of augmentation has been approved by this Court. 16. Retained Jurisdiction:

A. The Court retains jurisdiction as necessary to adjust the average annual amount of groundwater 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. Within 60 days after completion of any well decreed herein, or any test hole(s), Applicants or any successor in interest to these water rights shall serve copies of such log(s) upon the State Engineer.

B. At such time as adequate data is available, 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 water rights finding. The State Engineer shall submit such finding to the Water Court and to the Applicants.

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.

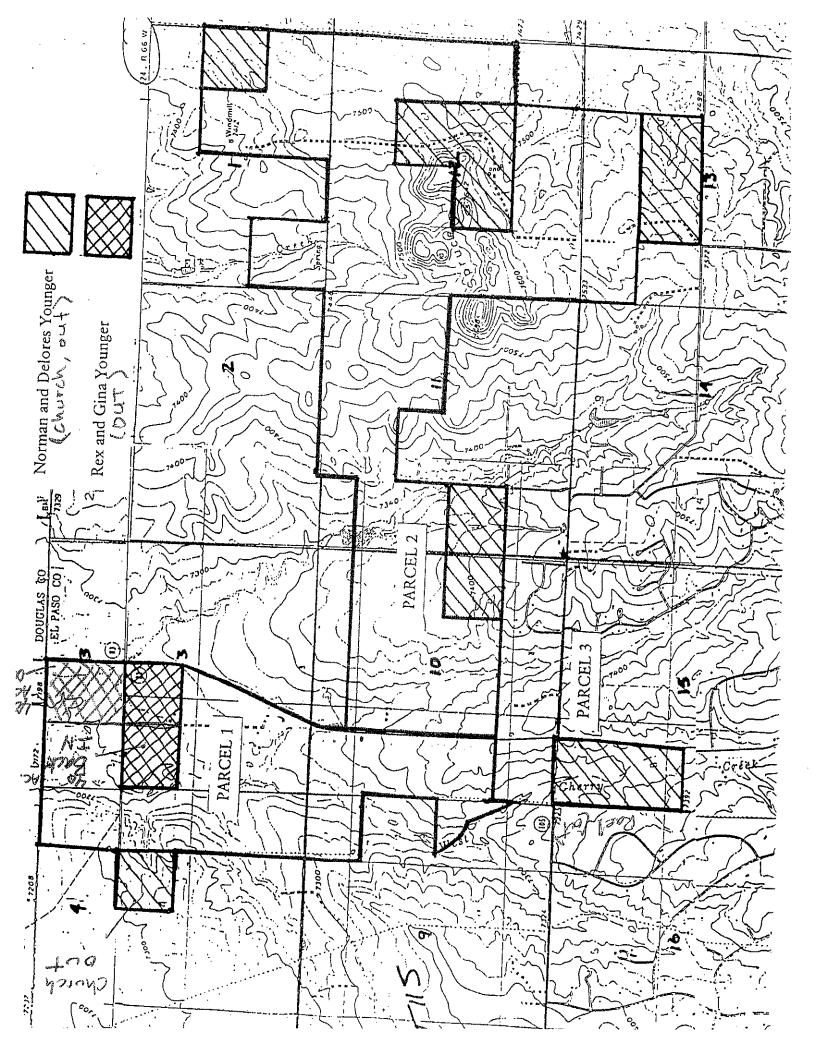
D. In the interim, the Court retains jurisdiction in this matter pursuant to \$37-92-305(11), C.R.S.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2000.

Raymond S. Liesman Water Referee Water Division 1 THE COURT DOTH FIND THAT NO PROTEST WAS FILED IN THIS MATTER, THEREFOR THE FOREGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated:\_\_\_\_

Jonathan W. Hays Water Judge Water Division 1



THIS PURCHASE CONTRACT (this "Contract") between YOUNGER FAMILY PARTNERSHIP, Ltd., LLLP, a Colorado limited liability limited partnership; and, the NORMAN B. YOUNGER FAMILY TRUST; and, DELORES J. YOUNGER (collectively "Seller"), and SR WATER, LLC ("Purchaser") is dated as of the day Seller and Purchaser have both signed it, as indicated by their signatures below (the latter of which shall be the "Effective Date").

#### **RECITALS**

A. Seller owns the water rights described on the attached <u>Exhibit A</u> (the "Younger Water Rights") underlying the real property located in El Paso County, Colorado described more particularly on the attached <u>Exhibit B</u> (the "Younger Ranch"). Seller reserves the right to revise the annual amounts (and associated purchase price) and description of the real property based on final review of title and other issues.

B. Seller will provide certain easement rights for use in connection with the withdrawal, development and transmission of the Younger Water Rights which easements are to be more specifically described prior to closing, including granting of the same at closing in a form substantially similar to the attached Water Wells and Pipeline Easement Agreement Exhibit C (the "Easement Agreement"), and pursuant to Paragraph 1.2(c), herein.

C. Purchaser intends to develop certain real property located in El Paso County, Colorado and requires water rights in order to service such development.

D. Purchaser desires to purchase from Seller and Seller desires to sell to Purchaser the Younger Water Rights as described on <u>Exhibit A</u> under the terms set forth in this Contract. In connection with the purchase and sale of the Younger Water Rights, Purchaser desires to acquire from Seller and Seller desires to convey to Purchaser, the associated Easements subject to the terms, conditions and limitations of this Contract.

#### AGREEMENT

IN CONSIDERATION of the Recitals and the following valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

Section 1. <u>THE PURCHASE</u>.

\* \* \* \* \* \*

1.1 <u>Purchase and Sale</u>. Purchaser hereby agrees to purchase ("**Purchase**") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$7,144,800.00 (the "**Purchase Price**"), which represents a price of \$2,600.00 per quantified acre foot for the water rights more particularly described on <u>Exhibit A</u>. It is the parties expressed intent that the Closing Date be as soon as practicable, but no later than June 30, 2019, upon mutual agreement of the Parties ("**Closing Date**"). Buyer may, upon written request and upon payment of nonrefundable "Additional Earnest Money" payments in the amount of \$25,000 per

BAY.

month, extend the closing date for a maximum of 90 days. Extension beyond said 90 days shall require written amendment of this Agreement signed by all parties.

(a) Earnest Money Payment for the Water Rights. Within 15 days of mutual execution of this Contract, the Purchaser shall pay to Seller an Initial Payment of one hundred thousand dollars (\$100,000.00) as "Earnest Money", to be deposited in escrow with the Title Company, as defined herein. Failure to timely pay such Earnest Money shall result in the termination of this Agreement. The Earnest Money shall be fully refundable by Seller for a period of 60 days from mutual execution of this contract, representing the expiration of the diligence deadline, as defined herein. Following expiration of the diligence deadline, the Earnest Money shall become nonrefundable, and Seller may request that Title Company disburse said Earnest Money, and the Title Company shall so disburse said Earnest Money, and Purchaser will forfeit all entitlement to refund of the same, whether or not proceeding to closing. All Earnest Money deposits, including any Additional Earnest Money" payments made as consideration for extension of the Closing Date as described in Paragraph 1.1, above, shall be applied to the balance due on the Purchase Price at closing.

(b) <u>Payment for balance of Water Rights at Closing</u>. At closing, to be scheduled consistent with the terms and conditions of this Contract by mutual agreement of the Parties, Purchaser shall pay to Seller the balance of the Purchase Price due of \$7,044,800.00 (less any Additional Earnest Money paid for closing extensions) in good funds, after credit is given to Purchaser for the Earnest Money previously paid to Seller as described in Paragraph 1.1(a), above, in the manner described in Paragraph 1.2, below.

### 1.2 <u>Closing Procedure</u>.

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(a) <u>Payment</u>. At Closing, Purchaser shall pay the balance due, as calculated and described in Paragraphs 1.1(a) and (b), above, in good funds delivered to the Title Company for disbursement to Seller;

(b) <u>Deed</u>. At Closing, Seller shall convey by special warranty deed(s) the Younger Water Rights, subject only to the Permitted Exceptions (defined in Section 2 below);

(c) <u>Easements</u>. At the Closing, the Seller shall execute and deliver to Purchaser the "Water Wells and Pipelines Easement Agreement", in a form substantially similar to that attached as <u>Exhibit C</u> hereto, under which Seller grants Purchaser non-exclusive easements for use in connection with the withdrawal, development and transmission of the Younger Water Rights (the "Easements"). The parties will cooperate in the final configuration of well sites and easements. Purchaser shall provide Seller with proposed well sites and pipeline easement locations within 30 days of the date of mutual execution of this contract, and Seller may approve or object to the number and location of well sites and location of easements within 30 days of that receipt. To the extent the parties have not agreed to specific well sites and easements prior to closing, notwithstanding the provisions of Paragraph 1.1, above, the closing date may be extended up to 90 days to allow the parties to reach such an agreement. Should the parties still fail to agree on the scope, extent and location of the Easements, this contract shall terminate of its own terms, and Purchaser's Earnest Money shall be refunded.

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Well sites and easements will be located as inconspicuously as possible on the land, and damage to the land from construction of wells and easements will be repaired to the original state of the land prior to construction;

(d) <u>Title</u>. Seller shall provide Purchaser a title commitment with respect to the Easements issued by Land Title Guarantee Company (the "**Title Company**") within ten (10) days of the final written approval of the well site and easement locations by Seller and Purchaser.

(e) At Closing, Seller and Purchaser shall each deliver such affidavits and agreements as the Title Company may require or request in order to consummate the transactions contemplated by this Contract.

#### 1.3 Activities Prior to Closing.

(a) Seller represents that there are no known liens or encumbrances affecting the Younger Water Rights or Easements. Within ten (10) days of the Effective Date, Seller shall furnish to Purchaser copies of any and all water court decrees, groundwater determinations, well permits, agreements, engineering reports, or other documents in its possession relating to or concerning the yield and use of the Younger Water Rights and the Easements, as well as any title work evidencing ownership in the same.

(b) Purchaser, at its expense, shall retain a water resources engineer and/or water attorney to examine the Younger Water Rights and Easements, including any documents received from Seller, and complete a good faith legal and engineering analysis of the use and physical yield of the Water Rights for Purchaser's purposes, and for identification and specification of the Easements, as described in Paragraph 1.2(c), above. Purchaser may perform such further due diligence investigations concerning the Water Rights, including title investigations as it deems appropriate. Seller shall cooperate with Purchaser in such investigations or negotiations, provided that Seller will not be obligated to incur any expense in such cooperation. Such diligence evaluation shall be completed 60 days from the date of this contract, the "diligence deadline". Should Purchaser object to any aspect of the Younger Water Rights and/or Easements, in Purchaser's sole discretion, Purchaser shall advise Seller of the same in writing in advance of the diligence deadline, and in such instance shall be entitled to a refund of the Earnest Money held in Escrow by the Title Company, and this Contract shall terminate of its own terms.

### 1.4 <u>Conditions to Closing</u>.

(a) <u>Purchaser's Conditions</u>. Purchaser's obligations under this Contract to purchase the Younger Water Rights and Easements are subject to the following conditions precedent, which must be satisfied or waived on or before Closing (unless otherwise provided):

i. <u>Representations by Seller</u>. The representations and warranties made by Seller in this Contract must be true and correct as of the Closing. Seller

provides no warranty as to the water quality or the actual physical supply available as to the groundwater which is the subject of this contract.

ii. <u>Compliance by Seller</u>. Seller shall have complied with the terms and conditions of this Contract in all material respects.

iii. <u>No Material Change</u>. Title to the Water Rights and Easements shall be subject to no matters other than the Permitted Exceptions.

(b) <u>Seller's Conditions</u>. Seller's obligations under this Contract to sell the Younger Water Rights and Easements are the subject to the following conditions precedent, which must be satisfied or waived on or before Closing:

i. <u>Representations by Purchaser</u>. The representations and warranties made by Purchaser in this Contract must be true and correct as of the Closing.

ii. <u>Compliance by Purchaser</u>. Purchaser shall have complied with the terms and conditions of this Contract in all material respects.

Section 2. <u>TITLE</u>.

**.**, ,

2.1 Title to the Water Rights and Easements shall be marketable and shall be free and clear of all liens and encumbrances, subject in both instances only to:

(a) The lien for real property taxes for the year of Initial Closing and all subsequent years, if any.

(b) Any exceptions shown on a title commitment for the Easements that do not impair the use of the Water Rights or the Easements for their allowed uses; and

(c) Any defects or encumbrances created by Purchaser, at the instance of Seller, or with Seller's consent.

The foregoing title exceptions are hereinafter called the "Permitted Exceptions".

Section 3. <u>REPRESENTATIONS AND WARRANTIES</u>.

3.1 <u>Representations, Warranties and Covenants of Seller</u>. Seller hereby represents, warrants and covenants to Seller that, as of the date hereof and the date of each Closing:

(a) <u>Authority</u>. The execution and delivery by Seller of this Contract are within Seller's powers and have been duly authorized by all requisite organizational actions. The person executing this Contract on behalf of Seller has the authority to do so. This Contract is a legal, valid and binding obligation of Seller, enforceable in accordance with its terms.

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(b) <u>Title</u>. Seller holds good and marketable title to the Younger Water Rights and Easements free and clear of all liens and encumbrances except the Permitted Encumbrances. During the term of this Contract, Seller will not enter into any agreement or suffer any lien with respect to the Younger Water Rights or Easements.

(c) <u>Litigation</u>. To the knowledge of Seller, there is no pending or threatened litigation affecting the Younger Water Rights or Easements.

(d) <u>Governmental Notices</u>. Seller has not received any notices or directives from any governmental entities with jurisdiction over the Younger Water Rights or Easements claiming that any current use of or current condition with the Younger Water Rights or Easements violates any federal, state, or local laws or regulations.

(e) <u>No Other Warranties</u>. Other than the foregoing representations, warranties and covenants, no representations and warranties have been made by Seller or anyone on its behalf to the Purchaser as to the condition of the Water or Easements.

3.2 <u>Representations, Warranties and Covenants of Purchaser</u>. Purchaser hereby represents, warrants and covenants to Seller that, as of the date hereof:

(a) <u>Authority</u>. The execution and delivery by Purchaser of this Contract are within Purchaser's powers and have been duly authorized by all requisite organizational actions. The person executing this Contract on behalf of Purchaser has the authority to do so. This Contract is a legal, valid and binding obligation of Purchaser, enforceable in accordance with its terms.

3.3 <u>Seller's Disclaimers</u>. Seller makes no warranty or representation regarding the physical yield and quality of the Younger Water Rights or that the Younger Water Rights are fit for the purposes intended by Purchaser. Purchaser must make its own determinations in this regard as part of Purchaser's diligence prior to the diligence deadline.

### Section 4. <u>DEFAULT AND SPECIFIC PERFORMANCE</u>.

4.1 <u>Default by Seller</u>. The parties agree that in view of the unique nature of the Water Younger Rights, in the case of default by Seller damages will not provide an adequate remedy for Purchaser. Therefore, in case of default by Seller, Purchaser shall have the right to specific performance and damages, in addition to any other remedies available in law or equity.

4.2 <u>Default by Purchaser</u>. In case of default by Purchaser, Seller shall be entitled to all remedies available in law or equity.

Section 5. <u>MISCELLANEOUS.</u>

5.1 <u>Effect of Headings</u>. The subject headings of paragraphs and subparagraphs of this Contract are included for purposes of convenience only, and shall not affect the construction or interpretation of any of its provisions.

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5.2 <u>Entire Contract; Survival of Contract; Construction</u>. This Contract constitutes the entire agreement between the parties hereto and supersedes all prior and contemporaneous agreements, representations and understandings of the parties regarding the subject matter of this Contract. No supplement, modification or amendment of this Contract shall be binding unless executed in writing by the parties hereto. Both parties participated in the preparation of this Contract and consequently any rule of construction construing any provision against the drafter shall not be applicable.

5.3 <u>Counterparts</u>. This Contract may be executed in one or more counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument.

5.4 <u>Assignment</u>. Purchaser may assign its interest in this Contract only with the express written approval of Seller, which shall not be unreasonably withheld.

5.5 <u>Notices</u>. All notices and other communications under this Contract shall be in writing and shall be given either personally or by an overnight courier service (which obtains a receipt evidencing delivery) and shall be addressed as follows:

To Purchaser:	SR Water, LLC 20 Boulder Crescent, Suite 200 Colorado Springs, CO 80906
To Seller:	c/o Younger Family Partnership, Ltd., LLLP 5060 Walker Road Colorado Springs, CO 80908

5.5.1 Seller may choose to make the sale of the Younger Water Rights as part of a 1031 exchange for tax purposes, and if so, Purchaser shall co-operate as required.

<u>Governing Law</u>. This Contract shall be construed in accordance with the laws of the State of Colorado.

5.6 <u>Brokers' Fees</u>. Seller has employed the services of Remax Performance Group, Marty Chase, as broker, agent, and finder, and same is entitled to receive a commission, finder's fee, or other compensation in connection with this transaction, which commission, finder's fee or other compensation shall be Seller's sole responsibility to pay. Purchaser has not employed the services of any person as broker, agent, finder and no such broker, agent, finder or other person is entitled to receive a commission, finder's fee or other compensation in connection with this transaction. Each of the parties agrees to indemnify and hold harmless the other against any loss, liability, damage, cost, claim or expense incurred by reason of any brokerage commission or finder's fee alleged to be payable because of any act, omission or statement of the indemnifying party.

5.7 <u>Prohibition Against Recording</u>. This Contract shall not be recorded without the prior written consent of the Seller. If it is recorded without such prior written consent, this

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Contract shall terminate, and such recording shall constitute notice to all third parties that this Contract has been terminated and the Purchaser has no right, title, claim, or interest in the Water Rights or Easements. If the contract is recorded without consent of Seller, the Earnest Money shall be retained by Seller.

5.8 <u>Recovery of Litigation Costs</u>. If any legal action or proceeding is brought for the enforcement of this Contract, or because of an alleged dispute, breach, default, or misrepresentation in connection with any of the provisions of this Contract, the successful or prevailing party shall be entitled to recover attorneys' fees and other costs incurred in that action or proceeding, in addition to any other relief to which it or they may be entitled. As used herein, "attorneys' fees" shall mean the full and actual costs of any legal services actually rendered in connection with the matters involved, calculated on the basis of the usual fee charged by the attorneys performing such services and shall not be limited to "reasonable fees" as defined by any statute, case law or rule of court. The parties intend that in addition to all other legal and equitable remedies available, injunctive relief and the remedy of specific performance may be utilized in the event of the breach or threatened breach of this Contract.

5.9 <u>Further Assurances</u>. Each of the parties hereto undertakes and agrees to execute and deliver such documents, writings, and further assurances as may be required to carry out the intent and purpose of this Contract.

5.10 <u>Dates</u>. If any date set forth in this Contract for the delivery of a document or occurrence of any event (such as closings and payment hereunder) should, under the terms hereof, fall on a weekend or holiday, then such date shall automatically be extended to the next succeeding weekday that is not a holiday.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

#### **SELLER:**

YOUNGER FAMILY PARTNERSHIP, Ltd., LLLP, a Colorado limited liability limited partnership

By: Name: BRAD A Title: GENERAL Date:

#### NORMAN B. YOUNGER FAMILY TRUST

By: \_\_\_\_ 10unal Name: Delores VUNKACR Title: Trustee Sept. 5 2018 Date: \_

DELORES J. YOUNGER

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By: <u>Alelores J. Younger</u> Name: <u>Delores J. Younger</u> Title: Date: Sept. 5 2018

### **PURCHASER:**

SR WATER, LLC, a Colorado limited liability

By: Name: ev. Title: Date:

in en e

### Exhibit A Younger Water Rights

The following Nontributary groundwater adjudicated by the Water Court for Water Division No. 1 in Case No. 99CW214, based upon a 100-year allocation of water:

• Denver (Nontributary): 1,809 AF

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Arapahoe (Nontributary): 939<u>AF</u>
 TOTAL: 2748 AF

All other Denver Basin groundwater adjudicated in Case No. 99CW214, specifically groundwater in the not-nontributary Dawson aquifer, and nontributary Laramie-Fox Hills aquifer, are expressly reserved by Seller.

### Exhibit B Younger Ranch Land

Younger Family Partnership LTD LLLP

Tax Schedule number	Description
61000-00-218	NE4SE4 SEC 12-11-66
61000-00-224	E2NE4 SEC 12-11-66
61000-00-246	SW4SE4 SEC 12-11-66 NW4NE4 SEC 13-11-66
61000-00-269	SW4NE4, SE4NW4 SEC 13-11-66
61000-00-278	SE4SW4 SEC 12-11-66 NE4NW4 SEC 13-11-66
61000-00-331	SE4SE4 SEC 1-11-66
61000-00-400	NE4NE4 SEC 4-11-66
61000-00-419	TR IN SECS 10 & 11-11-66 DES AS FOLS: COM AT SEC COR COMMON TO SEC 10, 11, 14, & 15, TH N 00<04' E 1322.55 FT FOR POB, TH N 89<33'40" E 1317.66 FT, N 00<07'20" E 3166. FT, N 89<15'20" W 5235.91 FT TO A PT ON ELY R/W LN OF COLO STATE HWY NO 83, TH S 00<03'40" E 3012.00 FT TO A POC, ALG ARC OF CUR TO L WHICH CHORD BEARS S 01<13'30 E 154.23 FT TO A PT ON S LN OF N2S2 SEC 10, S 88<51'20" E 3905.37 FT TO SE COR OF N2E4 SEC 10 TO POB, EX NE4SE4 SEC 10 & EX NW4SW4 SEC 11-11-66
61000-00-420	NE4SE4 SEC 10-11-66 NW4SW4 SEC 11-11-66
61000-00-421	NW4SE4 SEC 1-11-66
61000-00-422	SW4SE4 SEC 1-11-66
61000-00-478	NW4NW4 SEC 13-11-66

along with:

Younger Family Partnership LTD LLLP Younger Norman B Family Trust

Tax Schedule number	Description
61000-00-465	SE4 NE4, E2SE4 Sec 4-11-66 NE4NE4, PT SE4 DES AS FOLS BEG 860.27 FT N OF SE COR, TH N 57<33'53" W 496.57 FT, TH N 13<00'29" E 60.34 FT, TH N 10<55'18" W 383.28 FT, E 823.72 FT TO E LN OF SD SE4, TH S 00<14'44" E 1396.39 FT TO POB SEC 9-11-66 W2N4, NW4 SW4 EX PT TO RD EX 4.377 AC TO STATE HWY 83 SEC 10-11-66
61000-00-500	THAT PART OF E2SW4 LY WLY OF W LN OF HWY L/MR SEC 3-11-66, EX THAT PORT CONV TO COUNTY BY REC #208079799
61010-05-011	PT OF LOT 21 ELK CREEK RANCHES FIL NO 2 DES AS FOLS: COM AT CENTER COR OF SEC 1-11-66, TH S 00,20'17" W 896.6 FT FOR POB, TH CONT S 00<20'17" W 90.00 FT N 89 <39'43" W 80.00 FT, N 00<20'17" E 90.00 FT, S 89<39'43" E 80.00 FT TO POB
61000-00-364	NW4NW4 SEC 12-11-66
61000-00-365	SW4SW4 SEC 01-11-66 NE4 L/MR NE4 NW4 SEC 11-11-66 NW4 EX NW4NW4, NW4 NE4 SEC 12-11-66
61000-00-494	W2 GOVERNMENT LOT 2 SEC 3-11-66
61000-00-496	THAT PT OF SW4NW4 SEC 3-11-66 DES AS FOLS: BEG AT SW COR OF NW4 OF SD SEC3, TH N 00<45'11" W 1321.12 FT TO THE NW COR OF SW4 NW4, TH S 88<53'16" E 1318.90 FT TO NE COR OF SW4, TH S 00<34'59" E 948.01 FT, N 89<28'55" W 464.18 FT, S 05<57'20" W 369.96 FT TO SLY LN OF SD SW4, TH N 88<50'37" W 808.56 FT TO POB

along with;

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**Delores** | Younger

. . . .

Tax Schedule number

61000-00-098

61000-00-233

99000-02-402

and, along with:

### Delores J Younger Younger Norman B Family Trust

Tax Schedule number

61000-00-329

Description

NW4SE4 SEC 12-11-66

SW4NE4, NE4SW4 SEC 12-11-66

ALL MR NE4 SEC 11-11-66

Description

NE4SE4 SEC 01-11-66

Exhibit C Younger Ranch Easement Agreement

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### **GRANT OF EASEMENT AGREEMENT**

THIS GRANT OF EASEMENT AGREEMENT is entered into this \_\_\_\_\_ day of \_\_\_\_\_\_, 2018 by and between YOUNGER FAMILY PARTNERSHIP, LTD, LLLP, a Colorado limited liability limited partnership ("Grantor"), and SR WATER, LLC, a Colorado limited liability company, ("Grantee").

### RECITALS

A. Grantor is the owner of the certain real property described as Schedule No(s). \_\_\_\_\_\_\_ in the records of the El Paso County Assessor, and further described in a in a warranty deed dated \_\_\_\_\_\_ and recorded at Reception No. \_\_\_\_\_\_ with the Clerk and Recorder, El Paso County, Colorado ("Grantor's Property"). A location map depicting the relevant portion of Grantor's Property, and the Grantee Property as described below, is attached hereto as **Exhibit A** and incorporated herein by reference.

B. The Grantee has purchased from Grantor certain water and water rights, and requires certain water supply infrastructure for extraction, delivery and use of the Grantee's water and water rights, which the Grantee will require certain easements across, through and under the Grantor's Property, as depicted on **Exhibit A** hereto ("\_\_\_\_\_ Easements").

C. The parties have further agreed upon an easement upon Grantor's Property for purposes of ingress, egress and access to and from the Grantee's infrastructure, as well as for engineering, design, construction, repair, maintenance and operation thereof, for the benefit of the Grantee, and Grantor is willing to grant such easement upon the terms and conditions set forth herein. Such "Access Easement" is likewise depicted on **Exhibit A**.

**NOW THEREFORE**, in consideration of the above recitals, the mutual promises contained herein, and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties agree as follows:

1. <u>Grant of Easement</u>. Grantor hereby grants and conveys to the Grantee perpetual and nonexclusive easements over, across, under and through the Grantor's Property, with the location and dimensions of said easement described on the attached **Exhibit B**, and shown in the attached **Exhibit A**, as incorporated herein by reference, collectively the \_\_\_\_\_ Easements and Access Easement.

2. <u>Purposes of the Easements</u>. The \_\_\_\_\_ Easements shall be for the existence, construction, maintenance, operation, repair and replacement of underground water utilities, and all associated infrastructure, including but not

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limited to wells, pipelines metering and lift stations, and similar infrastructure for the extraction, transport, delivery and use of Grantee's water and water rights. The \_\_\_\_\_\_ Easements include the location and use within the

Easements of appurtenant facilities necessary for the use and enjoyment of such utilities including, without limitation, road surface and gates, pipelines, valves, manholes, headwalls, inlets, outlets, erosion control systems, conduits, cables, and encasements, whether for transport and delivery of water, wastewater, storm water, or power associated with transport and delivery of the same. The

Easements also include, via the Access Easement, the right of ingress and egress to, from, and across said \_\_\_\_\_\_ Easements in exercising the rights granted herein, including access within the \_\_\_\_\_\_ Easements to travel to and from Grantee facilities served by the above described water utilities. The Grantee shall conduct the construction, maintenance, operation, repair and replacement of its water, sanitary sewer, and/or storm sewer utilities expediently and in such a manner that will not interfere with, obstruct or impede the ingress or egress of persons or vehicles to and from Grantor's Property or otherwise unreasonably interfere with the normal conduct of business on Grantor's Property.

3. <u>Non-interference</u>. Grantor shall not cause or allow any interference in the Grantee's use and enjoyment of the \_\_\_\_\_ Easements and Access Easement. No hardy landscaping defined as trees, woody plants, or shrubs, or other landscaping materials having a root zone deeper than 18 inches shall be planted within the easements. No buildings, structures, fences or other improvements shall be placed or constructed on or within the \_\_\_\_\_ Easements, or Access Easement, by the Grantor without the Grantee's prior written consent, excepting, however:

A. Existing roadways or rights-of-way for the same and all such existing roadways or driveways must be maintained in such a manner as to not impair the purposes of the \_\_\_\_\_ Easement and Access Easement granted herein; and

B. Future roadways, driveways, paths, crossings or rights of way necessary for Grantor's full enjoyment of Grantor's Property, provided that (i) any and all such future crossings of the \_\_\_\_\_\_ Easements and Access Easement be engineered, designed, constructed and maintained so as to not impair the purposes of the easements granted herein, and further provided that (ii) Grantee approval of the design and construction of any crossing shall be required, and Grantor and its successors and assigns shall provide the Grantee with a written request for approval of any such roadway, driveway, path, crossing, or right-of-way, including detailed designs therefore, a minimum of 90 days in advance of any anticipated initiation of construction of the same. The Grantee shall timely review any such request and provide comments or approval in writing, and approval of any such requested crossing of the Easement shall not be unreasonably withheld by the Grantee.

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C. The Grantee shall have the right to remove any obstructions or improvements from the \_\_\_\_\_ Easements and Access Easement area which interfere with the use and enjoyment of the easements. The Grantee may exercise this right without liability and without an obligation to replace any removed obstructions or improvements; provided, however, the Grantee agrees that if it is required to disturb the surface of the \_\_\_\_\_ Easements and/or Access Easement for the uses set forth herein, including any approved crossings, it shall restore the surface and such approved crossings to the pre-disturbance condition.

4. <u>Mechanics Liens</u>. In no event shall Grantee allow any mechanics liens to attach against Grantor's Property or any portion thereof for materials supplied or work performed at the request, or for the benefit of, Grantee. Grantee shall indemnify and hold Grantor harmless from cost or expense incurred by Grantor to release any such liens against Grantor's Property.

5. Indemnity/Hold Harmless. Each party agrees to indemnify and hold harmless the other from any claim, demand, or action which may be brought as a result of or related to Grantee's entry upon or use of Grantor's Property, or Grantor's lawful entry upon or use of Grantee's \_\_\_\_\_\_ Easements. Each party shall promptly notify the other of any such demand or claim. Upon receipt of such notice, the notified party shall promptly take such steps as necessary to defend and protect the other's interests in connection with such demands, claims or actions.

6. <u>Removal</u>. Grantee shall remove from the \_\_\_\_\_\_ Easements any and all fixtures and structures which may become inoperable and are not intended to be promptly repaired, or which are not actively in use on intended for use in the foreseeable future, or equipment, fixtures and structures which are otherwise abandoned. Upon removal of any such equipment, fixtures or structures, Grantees shall restore the surface as near as practicable to its original condition.

7. <u>Grantee's Execution</u>. The Grantee has executed this agreement to reflect its consent to the terms and conditions of the \_\_\_\_\_ Easements and Access Easement grant, and to accept the grant according to such terms and conditions.

8. <u>Authority</u>. All parties to this agreement represent that they have the full power and authority to enter into and perform this agreement. Grantor further represents that it is the sole owner of the Grantor's Property.

9. <u>Binding Effect</u>. The covenants, agreements, and obligations contained herein shall extend to, bind, and inure to the benefit of the parties hereto, as well as their respective personal representatives, heirs, successors, and assigns.

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IN WITNESS WHEREOF, the parties have executed this Grant of Easement, effective as of the date first written above.

### GRANTOR

Younger Family Partnership, Ltd., LLLP a Colorado limited liability limited partnership By:\_\_\_\_\_, Managing Partner

STATE OF COLORADO ) ) ss

COUNTY OF EL PASO )

Subscribed and sworn to before me this day of \_\_\_\_\_, 2018 by \_\_\_\_\_, as Managing Partner of Younger Family Partnership, Ltd., LLLP.

My commission expires:

Witness my hand and seal.

Notary Public

GRANTEE

SR Water, LLC, a Colorado limited liability Company By:\_\_\_\_\_

, Manager/Member

) ss

)

STATE OF COLORADO

COUNTY OF EL PASO

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2018 by \_\_\_\_\_ as Manager/Member of the Grantee, SR Water, LLC.

My commission expires: \_\_\_\_\_

Witness my hand and seal.

Notary Public

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Colorado Department of Natural Resources	Colorado.gov	0
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Colorado's Well Permit Search		
THIS PAGE IS NOT THE ACTUAL PERMIT The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. (Full Disclaimer)		
Permit Issued: Completion Clather United		
Receipt:         3628088A         Division:         1		
Permit #: 1689-BD - Water District: 1		
Well Name / #:         County:         EL PASO           Designated Basin:         KIOWA-BIJOU         Management District:		
Case Number:		
WDID;		
[-] Imaged Documents - Permit File		
Document Name         Date Imaged Annotated           Findings & Order for Determination         05/21/2009		
[-] Applicant/Contact		
Applicant/Contact Name		
MCCUNE GEORGE F & EVELYN 17480 MERIDIAN RD ELBERT, CO 80106-8916		
[-] Location Information		
Approved Well Location:		
Q40 Q160 Section Township Range PM Footage from Section Lines 24 11.05 65.0W Sixth		
24 11.0S 65.0W Slxth Northing (UTM y): 4325550.5 Easting (UTM x): 533176.3		
Location Accuracy: Spotted from quarters		
Subdivision Name		
Filing Block Lot		
Parcel ID: Acres in Tract: 900.52		
[-] Permit Detalls		
Date Issued: 06/25/2008 Date Expires: Uses (See Imaged Documents for more infomation)		
General Use(s): COMMERCIAL Aquifer(s): LARAMIE FOX HILLS DOMESTIC		
Special Use:		
Area which may be irrigated: Annual volume of appropriation:		
Statute:		
Cross Reference Permit(s): Permit Number Receipt		
Comments: DETER ISSUED		
[-] Construction/Usage Datalls		
Well Construction Date: Pump Installation Date: Well Plugged: 1st Beneficial Upp		
Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate		
[-] Application/Permit History		
Permit Issued 06/25/2008 Application Received 04/17/2008		
Disclaimer		
*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.		
This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate. The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).		
Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn		

more about well permitting in Colorado, please visit <u>DWR's Well Permitting Page</u>. If you have any questions about this well permit file, please contact the <u>DWR Ground Water Information Desk</u>

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### COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

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

APPLICANT:	GEORGE F.	MCCUNE AND EVELYN MCCUN	E MARTINE	<u> </u>
AQUIFER:	LARAMIE-FO	X HILLS		201
DETERMINAT	TON NO .:	1689-BD		

In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills Aquifer.

### FINDINGS

- 1. The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
- 2. The applicant requests a determination of rights to designated ground water in the Laramie-Fox Hills Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
- 3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
- 4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter \*Commission") has jurisdiction.
- 5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
- 6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 26300 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 15 percent.

b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 195 feet.

- 7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
- 8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 263 acre-feet.
- 9. A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
- 10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
- 11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
- 12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural steam or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
- 13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
- 14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

- 15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.
- 16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
- 17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aquifer.

#### ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Laramie-Fox Hills Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

- 18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 263 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal.
- 19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
- 20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
- 21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
- 22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area.

- 23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county in which the claimed overlying land is located notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
- 24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:

a. The wells shall be located on the above described 900.52 acre overlying land area.

b. The wells must be constructed to withdraw water from only the Laramie-Fox Hills Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.

c. The entire depth of each well must be geophysically logged <u>prior</u> to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.

d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.

e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.

f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.

25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Dated this 25th day of June 2008.

1. Week

Dick Wolfe, P.E Executive Director Colorado Ground Water Commission

Colorado Ground Water Commission 511 By: Keith Vander Horst, P.E. Jery Water Resource Engineer >

Prepared by: JPM

92GWS 1 03/2005

EXHIBIT A

1689-BD

Page 1 of 2

### STATE OF COLORADO OFFICE OF THE STATE ENGINEER DIVISION OF WATER RESOURCES 1313 Sherman St. Room 821 Denver, CO 80203 (303) 866-3581 Fax (303) 866-3589

RECEIVED

APR 1 7 2008

WATER RESOLUTCES COLO.

### NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT

### I (We) George F. McCune and Evelyn McCune

(Name(s))

claim and say that I (we) am (are) the owner(s) of the following described property consisting of 900.52 acres in the County of El Paso State of Colorado:

(Insert the property legal description)

SW/4SW/4 Section 18 and W/2 of the W/2 Section19, T11S, R64W, and S/2SE/4 Section 13 and All of Section 24, T11S R65W, 6th PM, El Paso County, 900.52 acres

See attached Quitclaim Deed dated November 29, 1976, and map.

and, that the ground water sought to be withdrawn from the Laramie-Fox Hills aquifer underlying the above-described land has not been conveyed or reserved to another, nor has consent been given to its withdrawal by another.

Further, I (we) claim and say that I (we) have read the statements made herein; know the contents hereof; and that the same are true to my (our) knowledge.

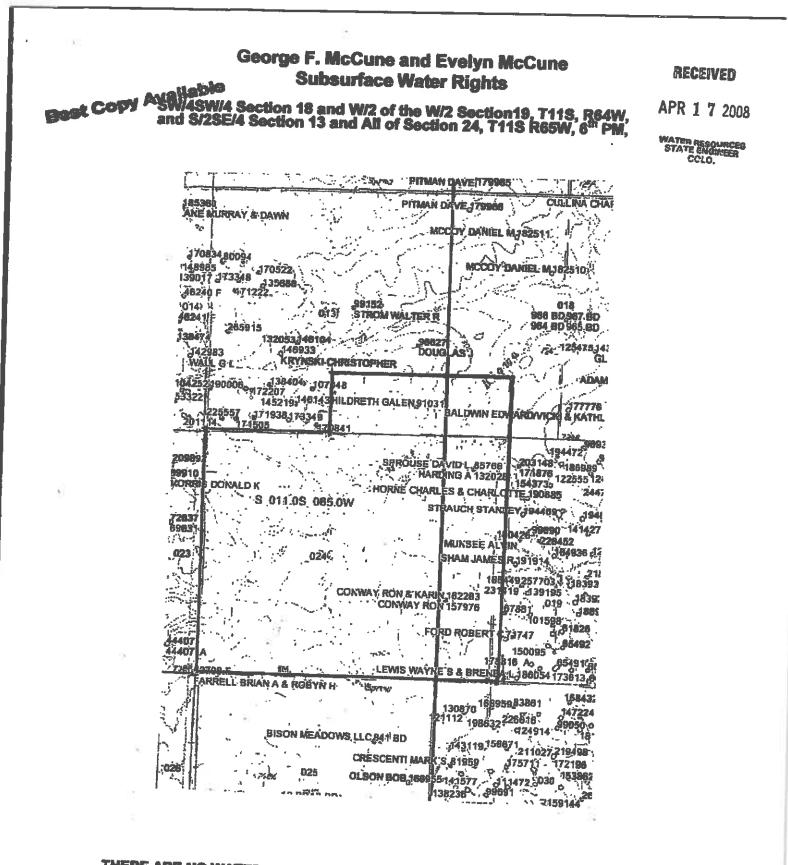
Signature <u>Gebrage 7 Mc Cume</u> Date ( <u>Cuelyn M Mc Cum</u> Date

INSTRUCTIONS:

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word processing means. See additional information on the reverse side.

EXHIBIT A A PAR SHALL LIVE est Copy Available 1689-BD 11 8 18 3 8 Page 2 of 2 Mar in the los STREET, STREET, RECEIVED CUTICEAIM DEED APR 1 7 2008 Sector RAY C. MCUINE and GRETA C. MCCUINE, as humbond and wills, of the County of El Paro and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLORAD COLO great and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. McCUNE and EVELYN M. McCUNE, humand and wife, in joint tenancy, of the County of Elbert and State of Colorado, a one-balf interest in and to all minerals underlying the following described property, including oil and gas, solid property lying and being in the ت. تريد County of El Paso and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Shiry-four; the West half of the West half of Section Nineteen, Township Eleven, Range Shiry-four; the South half of the Southeast Quarter of Section Thiefeen, Township Eleven, Range Shiry-five; All of Section Twenty-four, Township Eleven, Range Shiry-five; continuing in all Nine hundred and filty-two hundredits (900,52) acres, more or less, according to Government with all its appurtenances. . . . No DATED and signed this 22 day of Nou. Consideration 1976. STATE DOCUMEN NOV 2 9 1975 (m) PEE & STATE OF COLORADO COUNTY OF EL PASO The foregoing instrument was acknowledged before me this 2. day of Novi 1. 1. A. A STATE OF A STATE 2.8 10.00 · · · · 

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Ground Water Landownership Statement (form GWS-10 or Nontributary Ground Water Consent Claim (form GWS-48), including a description of the overlying land area subject to this determination, must be submitted as an attachment to the application. <b>9. SIGNATURE OF APPLICANT -</b> must be original signature – The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor punsuant to C.R.S. 24-4-104(13)(a). I have read the statements herein, know the contents thereof, and state that they are true to my knowledge.  Signature August M.C. (		
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### THERE ARE NO WATER WELLS ON THE PROPERTY

LOCATION MAP from CDSS

#### RECEIVED

APR 1 7 2008

STATE ENGINEER

1.22

### COLORADO WATER PLANS Water Consultants

Colorado Ground Water Commission Division of Water Resources Department Of Natural Resources 1313 Sherman Street - Room 818 Denver, Colorado 80203

Re: Application for Determination of Water Right Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

**Client:** 

g=7 mc Come + Evelyn m. mg Que By:

Date: 4-14-08

**Colorado Water Plans LLC** Craig L. Curl Dr. W. Jerry Koch Lisa S. Weinstein, Bsq. #35681 Bv: Date: PO Box 1955 / Elizabeth / Colorado / 80107 303//646-9655

### DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT: George F. McCune and Evelyn McCune

BASIN: Kiowa-Bijou

COUNTY: El Paso

AQUIFER: Laramie-Fox Hille RECEIPT NO. 3628088A

NUMBER OF ACRES IN TRACT: 900.52 acres

GENERAL LOCATION: SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6<sup>th</sup> PM, S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6<sup>th</sup> PM.

### **AQUIFER DATA**

263.4 AFyr

AMOUNT AVAILABLE FOR APPROPRIATION: (195 1

R APPROPRIATION: (195 feet SS)(900.52 Acres)(0.15 SY) = 26340 AF None

ANNUAL AMOUNT: 263.4 AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: N/A

OVERLAP AREA: N/A

ADJUSTMENTS:

AREA CHECKED: Sections 18, 19, and 30, T11S, R64W Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: N/A

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA: Nontributary

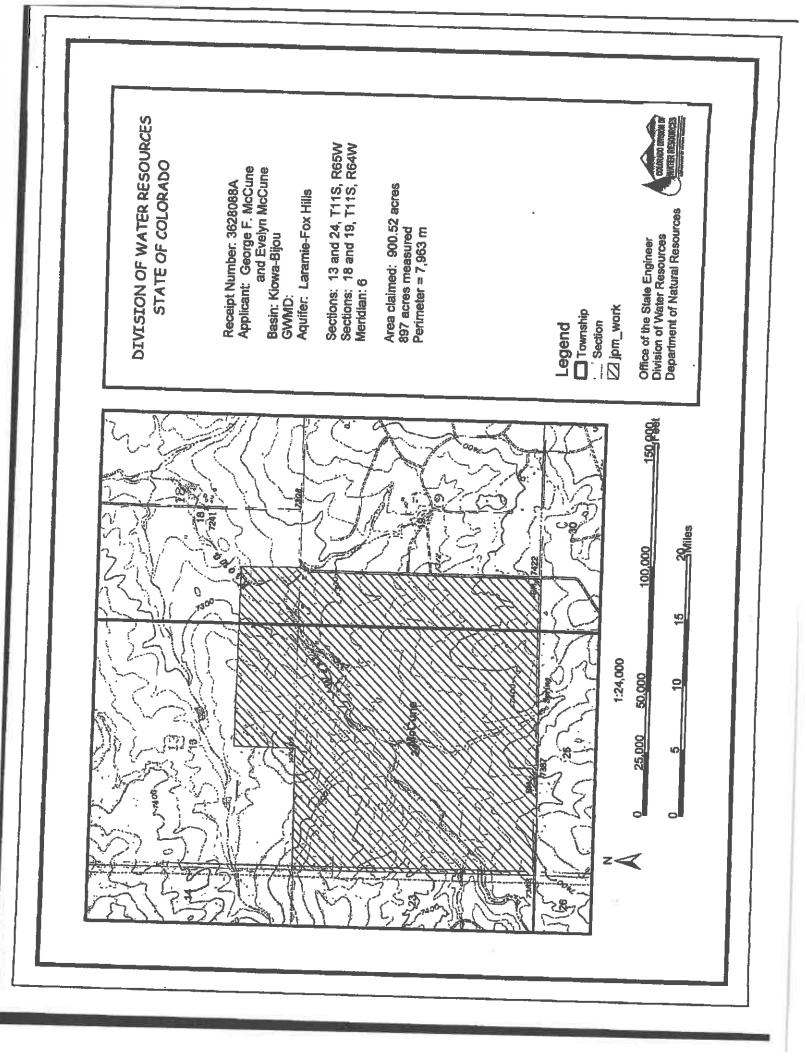
REPLACEMENT PLAN REQUIRED: Not Required

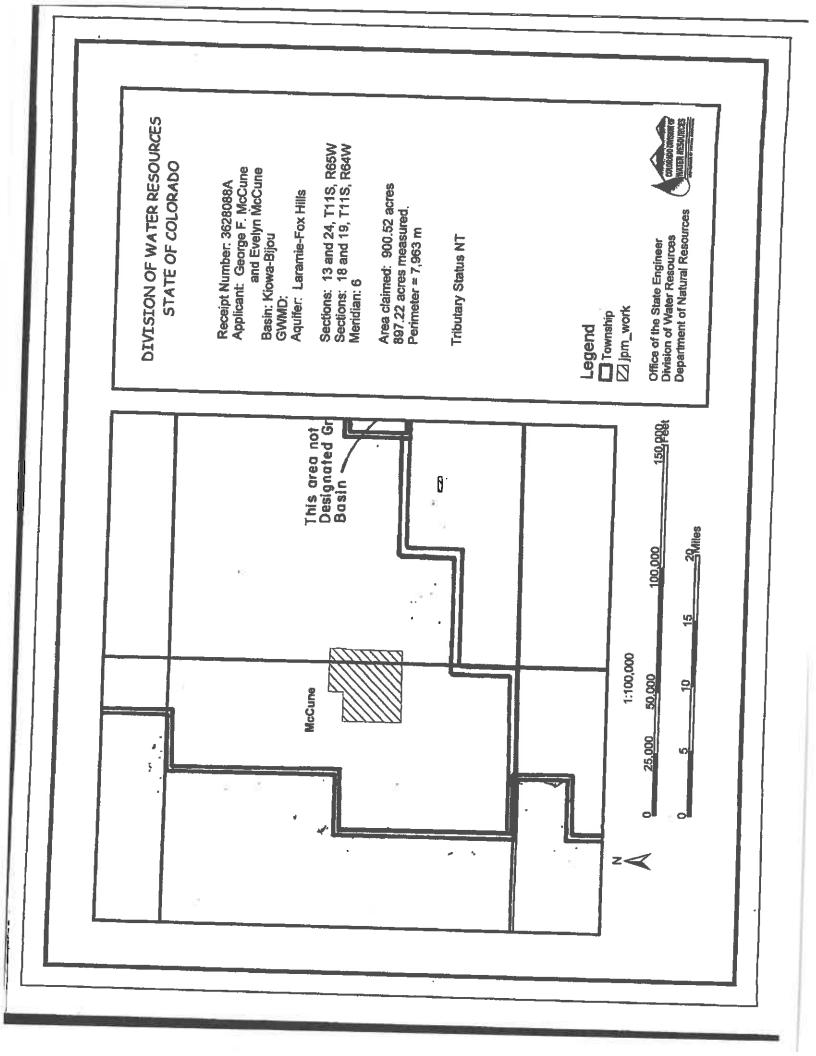
AQUIFER INTERVAL (CENTRAL DATA POINT): 2820 feet to 2940 feet below ground surface

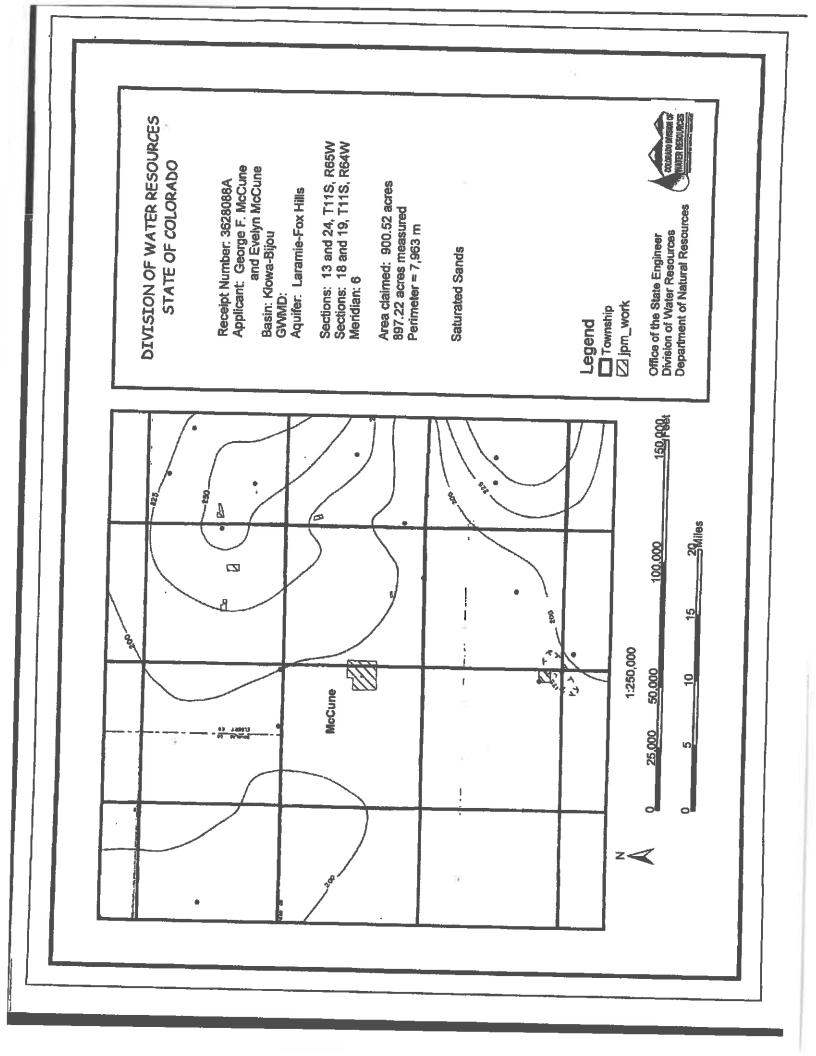
COMMENTS: The SS was considered 195 feet based on the SS map for the Laramie-Fox Hills aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff Reviewed by CBG

C:\Documents and Settings\jpm\My Documents\Water Right Aps\McCune\McCune Laramie Determ.doc









### DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF WATER RESOURCES

Bill Ritter, Jr. Governor

Harris D. Sherman Executive Director

Dick Wolfe, P.E. Director

May 1, 2008

George F. McCune and Evelyn McCune c/o Colorado Water Plans P.O. Box 1955 Elizabeth, CO 80107

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

Receipt Nos. 3628088A-D

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the legal notice to be published in the Ranchland News newspaper as required for the above described applications. If you find any errors or omissions in the notice, please contact this office by phone as soon as possible so that corrections may be made prior to publication. This office will bill you at a later time for the actual cost of this publication.

If you have any questions concerning these applications, please contact me at this office.

Sincerely,

In Minst

Justina Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosures: a/s cc: George and Evelyn McCune

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589 www.water.state.co.us OFFICE OF THE STATE ENGINEER Division of Water Resources – Department of Natural Resources 1313 Sherman St, Room 818, Denver, Colorado 80203 Phone 303-866-3581 – FAX 303-866-3589 – www.water.state.co.us

May 1, 2008

Ranchland News PO Box 307 Simla, CO 80835

### Applicant: George F. McCune and Evelyn McCune

### -EMAIL- DOCUMENT TRANSFER-

Please publish the enclosed legal notice in your editions of May 8, 2008 and May 15, 2008, or as close to these dates as possible. Please single-space all the enclosed material in your standard single column legal notice format. Font size shall not be less than six-point type and not more than nine-point in size.

Prior to publishing the legal notice, a proof copy must be submitted to this office for approval. The Ground Water Commission staff will inspect the proof copy and a reply as to its correctness will be made immediately by phone to your office. The proof copy must be directed to the attention of Justina Mickelson, Colorado Division of Water Resource at the above address, or by email justina.mickelson@state.co.us or fax 303-866-3589.

The state Controller and the State Purchasing Agent require that four copies of the billing and four copies of the proof of publication affidavit must be received in order to process billing invoices for legal notice publications. Two copies of the proof of publication must be notarized.

Since we must re-bill the applicant prior to the official action concerning their application request, please transmit the billing copies together with the proofs of publication as soon as possible.

Should you have any questions concerning publication of this notice, please contact this office.

Sincerely,

Justina, Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosure (a/s)

cc: Robert R. Loose, Commission Member

C:\Documents and Settings\jpm\My Documents\Water Right Aps\McCune\RanchlandNews - McCune.doc

### BEFORE THE COLORADO GROUND WATER COMMISSION

### KIOWA-BIJOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY

TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCune and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 11 and and control of the ground water in the above-described aquifers under this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The maximum allowable annual amount of ground water in each aquifer underlying the described property will be allocated.

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, the Colorado Ground Water Commission shall allocate ground water from the above-described aquifers based on ownership of the overlying land and an aquifer life of one hundred years. A preliminary evaluation of the applications by the Commission Staff finds the annual amount of water available for allocation from each of the described aquifers underlying the above-described property to be as follows: 263.4 acre-feet for the Laramie-Fox Hills, 398.0 final staff evaluation. The estimated available annual acre-feet allocation amount for each aquifer to indicated above may be increased or decreased by the Commission to conform to the actual aquifer characteristics, based upon site specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquifers underlying the above-described property to be as follows: nontributary for the Laramie-Fox Hills, nontributary for the Arapahoe, nontributary for the Denver, and not-nontributary (actual impact replacement) for the Dawson.

Upon Commission approval of these determinations of water right, well permits for wells to withdraw the allowed allocation from a specific aquifer shall be available upon application, subject to the conditions of the determination and the Designated Basin Rules and subject to approval by the Commission. Such wells must be completed in the specified aquifer and located on the above described 900.52 acre property. Well permits for wells to withdraw ground water from the Dawson aquifer would also be subject to the conditions of a replacement plan to be approved by the Commission.

Any person wishing to object to the approval of these determinations of water right must do so in writing, briefly stating the nature of the objection and indicating the above applicant, property description and the specific aquifers that are the subject of the objection. The objection must be accompanied by a \$10 per aquifer fee and must be received by the Commission Staff, Colorado Ground Water Commission, 818 Centennial Building, 1313 Sherman Street, Denver, Colorado 80203, by June 16, 2008.

### PUBLISHER'S AFFIDAVIT

## STATE OF COLORADO )

I, Susan Lister, do solemnly affirm that I am the Publisher of RANCHLAND NEWS; that the same is a weekly newspaper published at Simia, County of Elbert, State of Colorado, and has a general circulation therein; that said newspaper has been continuously and uninterruptedly published in said County of Elbert for a period of at least 52 consecutive weeks next prior to the first publication of the annexed notice, that said newspaper is entered in the post office at Calhan, Colorado as second class mail matter and that said newspaper is a newspaper within the meaning of the Act of the General Assembly of the State of Colorado, approved March 30, 1923, and entitled "Legal Notices and Adverlisements," with other Acts relating to the printing and publishing of legal notices and advertisements. That the annexed notice was published in the regular and entire issue of said newspaper, once each week for two successive weeks; that the first publication of said notice was in the Issue of said newspaper dated:

May 8 2008

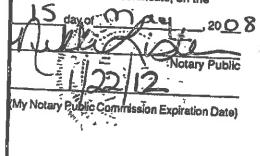
and the last publication of said notice was in the issue of said newspaper dated:

as 800

and that copies of each number of said paper in which said notice and/or list was published were delivered by carriers or transmitted by mail to each of the subscribers of said newspaper, Ranchland News, according to the accustomed mode of busidess in this office.

Publisher

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



71

**Determinations of Water** Right BEFORE THE COLORADO GROUND WATER COMMISSION KIOWA-BIJOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCune and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramio-Fox Hills, Atapahoe, Danver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2. of the SEI/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6ª PM. The applicant claims ownership of this land and control of the ground water in the above-described equifiers under this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: Somestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The maximum allowable ennual amount of ground water in each aquifer underlying the described property will be allocated.

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### RECEIVED

#### MAY 1 9 2008

WATER RESOURCES

### PUBLISHER'S AFFIDAVIT

## STATE OF COLORADO )

I, Susan Lister, do solemnly affirm that I am the Publisher of RANCHLAND NEWS; hat the same is a weekly newspaper pub-Ished at Simia, County of Elbert, State of Solorado, and has a general circulation herein; that said newspaper has been coninuously and uninterruptedly published in said County of Elbert for a period of at least 52 consecutive weeks next prior to the first pubication of the annexed notice, that said newspaper is entered in the post office at Cathan, Colorado as second class mail matter and that ald newspaper is a newspaper within the neaning of the Act of the General Assembly of the State of Colorado, approved March 30, 923, and entitled "Legal Notices and Advarisements," with other Acts relating to the printng and publishing of legal notices and adertisements. That the annexed notice was ublished in the regular and entire issue of aid newspaper, once each week for 100 uccessive weeks; that the first publication of aid notice was in the Issue of said newspaer dated:

May К 2008

nd the last publication of said notice was in te issue of said\_newspaper dated;

la 2008

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

Publisher

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

20<u>0</u>8 -0 Notary Public

ly Notary Public Commission Expiration Date)

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**Determinations of Water** 

Right BEFORE THE COLORADO GROUND WATER COMMISSION KIOWA-BLIOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY TAKE NOTICE that purplant to Section 37-90-107(7), C.R.S., George F. McCone and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Lammie-Fox Hills, Arapahoe, Denver, and Dewson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6ª PM. The applicant claims ownership of this land and control of the ground water in the above described aquifers under this property. The ground water allocations from these aquifars will be used on the described property for the following beneficial uses: domestic, industrial, commercial, inigation, augmentation, stock watering, recreational water festure ponds and placatorial habitat less than 1000 square fact and wildlife, replacement and all other augmentation purposes. The maximum allowable annual amount of ground water in each aquifer underlying the described property will be allocated

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First Publication May 8, 2008 Final Publication May 15, 2008 In Ranchland News

Legal No. 12,936

S Which is a marked

#### RECEIVED

### MAY 1 9 2008

WATER RESOURCES

8/2008 3 NUMBER 3 RECEIVED	MAY 1 9 2008 WATER RESOURCES STATE EXGNUEER	
5/ B DATE		Amount 43.97 30.71 74.68
Invoice		Units 89.000 89.000
	192	Total
News Avenue, PO Box 307 80835	Colorado Ground Water Commission 1313 Sherman Street, Rocan 818 Denver CO 80203	Description Iegal - 11.5 Picas McCune, legal 12,936 Legal - Rerun - 11.5 Picas McCune, legal 12,936 ******* Total
Ranchland News 115 Sioux Avenue, Simla CO 80835	Colorado G 1313 Sherm Denver CO	Date 05/08/2008 05/15/2008

### RECEIVED

JUN 0 2 2008



### DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

WATER RESOURCES STATE ENGINEER COLO.

Bill Ritter, Jr. Governor Harris D. Sherman Executive Director

Dick Wolfe, P.E. Director

George F. McCune and Evelyn McCune c/o Colorado Water Plans P.O. Box 1955 Elizabeth, CO 80107

Invoice No. 08-PUB-220

Pursuant to Section 37-90-116, C.R.S., applicants are required to pay for the actual expense of publication for determinations of water right, well permit and change of water right applications.

INVOICE

May 21, 2008

Your application for determinations of water right to appropriate ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers was published in the Ranchland News newspaper on May 8 and May 15, 2008.

The following cost was incurred:

- 1. Actual cost of publication: \$74.68
- 2. Additional fees: лопе

#### PAYABLE TO: DIVISION OF WATER RESOURCES \$74.68

Your application cannot be considered for approval until the charges are paid. Please return the enclosed copy of this invoice with remittance within thirty (30) days.

(A copy of the publication affidavit is enclosed for your records.)

Sincerely,

tu P. Mila

Justina P. Mickelson Physical Science Researcher Scientist **Designated Basins Branch** 

Trans Number: 3629687 6/2/2008 9:32:21 AM Debbie Gonzales (20) Total Trans Amt: \$231,58 CHECK Check Number: 9784 Check Amount: \$231.58

Enclosures (a/s)

Office of the State Engineer 1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589 www.water.state.co.us



# DEPARTMENT OF NATURAL RESOURCES

June 27, 2008

Bill Ritter, Jr. Governor Harris D. Shenman Executive Director Dick Wolfe, P.E. Director

George F. and Evelyn McCune 17480 Meridian Road Elbert, CO 80106-8916

### **RE: Determination of Water Right**

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1689-BD, for the allocation of ground water in the Laramie-Fox Hils aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

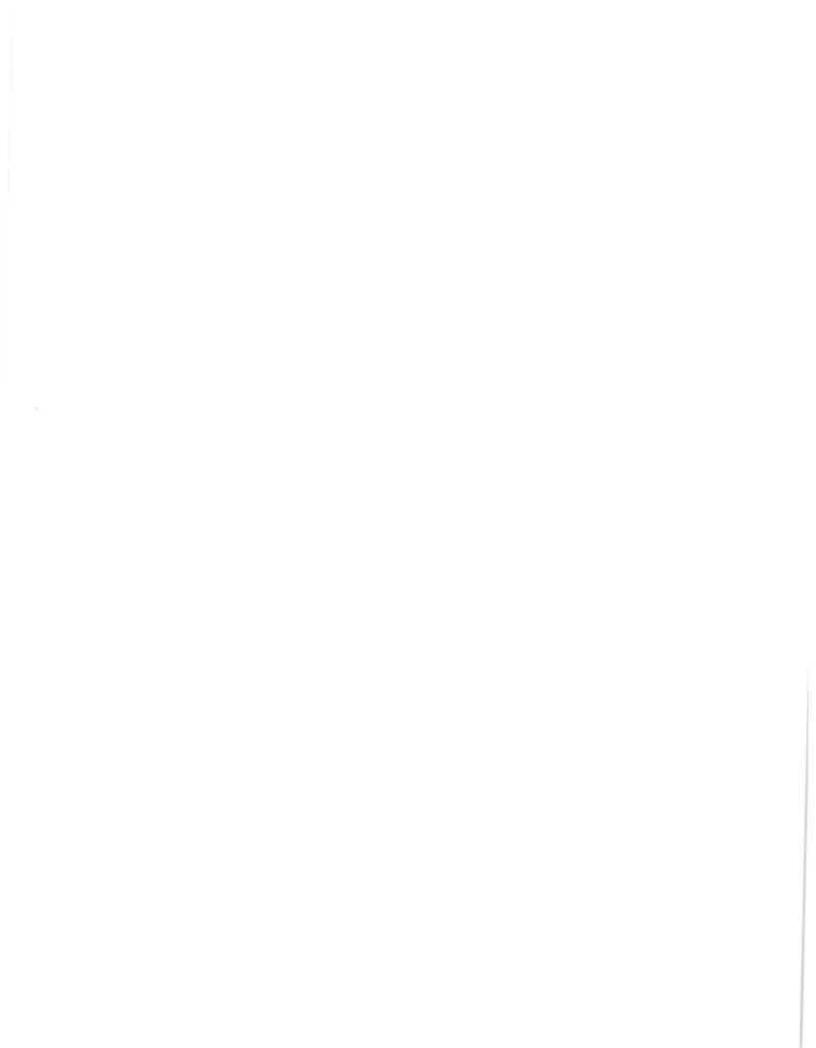
Sincerely,

Justino P. Micas

Justina P. Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosures: a/s

Office of the State Engineer 1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589 www.water.state.co.us



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Colorado Department of Natural Resources	a and the second se
Kejeralo Division of Weier/Resource	Colorado.gov   Contact Us
Colorado's Well Permit Search	
THIS PAGE IS NOT THE ACTUAL PERMIT The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. (Foll Disclaimer)	
Permit Issued: Completion Status Unknown         Receipt:       3628088B       Division:       1         Permit #:       1690-BD -       Water District:       1         Well Name / #:       County:       EL PASO         Designated Basin:       KIOWA-BIJOU       Management District:       FL PASO         WDID:       Value Status Unknown       Management District:       FL PASO	
[-] Imaged Documents - Permit File	
Document Name         Date Imaged Annotated           Findings & Order for Determination         05/21/2009         No	
[-] Applicant/Contact	
Applicant/Contact Name         Mailing Address         City/State/Zip           MCCUNE GEORGE F & EVELYN         17480 MERIDIAN RD         ELBERT, CO 80106-8916	
[-] Location Information Approved Well Location:	
Q40 Q160 Section Township Range PM Footage from Section Lines 24 11.05 65.0W Stath	
Northing (UTM y): 4325550.5 Easting (UTM x): 533176.3 Location Accuracy: Spotted from quarters	
Subdivision Name	
Filing Block Lot	
Parcel ID: Acres in Tract: 900.52	
[-] Permit Details	
Date Issued: 06/25/2008 Date Expires:	
Uses (See <u>Imaged Documents</u> for more infomation) General Use(s): COMMERCIAL Aquifer(s): ARAPAHOE DOMESTIC	
Special Use:	
Area which may be imigated: Annual volume of appropriation:	
Statute: Cross Reference Permit(s): Permit Number Receipt	
Cross Reference Permit(s): Permit Number Receipt Comments: DETER ISSUED	
[-] Construction/Usage Details	
Well Construction Date:     Pump Installation Date:       Well Plugged:     1st Beneficial Use:	
Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate	
[-] Application/Permit History	
Permit Issued 06/25/2008	
Application Received 04/17/2008	
Disclaimer	
*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.	
This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate. The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).	
Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn	

more about well permitting In Colorado, please visit <u>DWR's Well Permitting Page</u>. If you have any questions about this well permit file, please contact the <u>DWR Ground Water Information Desk</u>.

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#### COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

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

APPLICANT:	GEORGE F. M	MCCUNE AND EVELYN MCCUNE	Server Contraction		<u>_</u>
AQUIFER:	ARAPAHOE		Stender, State	-	14
DETERMINAT	FION NO.:	1690-BD			li eg
			, sam	÷.	ð

J.

In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Arapahoe Aquifer.

#### FINDINGS

- 1. The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
- 2. The applicant requests a determination of rights to designated ground water in the Arapahoe Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
- 3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
- 4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter "Commission") has jurisdiction.
- 5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
- 6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 39800 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 17 percent.

b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 260 feet.

- 7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
- 8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 398 acre-feet.
- 9. A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
- 10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
- 11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
- 12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural steam or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
- 13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
- 14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

- 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.

- 23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county in which the claimed overlying land is located notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
- 24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:

a. The wells shall be located on the above described 900.52 acre overlying land area.

b. The wells must be constructed to withdraw water from only the Arapahoe Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.

c. The entire depth of each well must be geophysically logged <u>prior</u> to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.

d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.

e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.

f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.

25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Dated this 25th day of June, 2008.

1 Week

Dick Wolfe, P.E Executive Director Colorado Ground Water Commission

Vinnile Hor By:\_ Keith Vander Horst, P.E. J Jefe Water Resource Engineer

Prepared by: JPM

Page 5

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92GWS 1 03/2005

EXHIBIT A

1690-BD

Page 1 of 2

## STATE OF COLORADO OFFICE OF THE STATE ENGINEER DIVISION OF WATER RESOURCES 1313 Sherman St. Room 821 Denver, CO 80203 (303) 866-3581 Fax (303) 866-3589

Received

APR 1 7 2008

WATER RESOURCES STATE ENGINEER COLO.

## NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT

## I (We) George F. NcCune and Evelyn McCune

(Name(s))

claim and say that I (we) am (are) the owner(s) of the following described property consisting of <u>900.52</u> acres in the County of <u>EI Paso</u>.

(Insert the property legal description)

SW/4SW/4 Section 18 and W/2 of the W/2 Section19, T11S, R64W, and S/2SE/4 Section 13

and All of Section 24, T11S R65W, 6th PM, El Paso County, 900.52 acres

See attached Quitclaim Deed dated November 29, 1976, and map.

and, that the ground water sought to be withdrawn from the <u>Arapahoe</u> aquifer underlying the above-described land has not been conveyed or reserved to another, nor has consent been given to its withdrawal by another.

Further, I (we) claim and say that I (we) have read the statements made herein; know the contents hereof; and that the same are true to my (our) knowledge.

Signature

Glorge 7 Mc Cum & Date Eulyn M. McCum

Signature

INSTRUCTIONS:

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word processing means. See additional information on the reverse side.

EXHIBIT A 21 **1** 1.5 1690-BD 18 P 20 Page 2 of 2 RECEIVED Beet Copy Available QUITCLAIM DEED APR 1 7 2008 RAY C. McCLINE and GRETA C. McCLINE, as huband and wife, of the County WATAN BESOURCES of El Paso and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLO grad and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. 5.2 MCCLINE and EVELYN M. MCCLINE, huntiand and wife, in joint tenancy, of the County of Elbert and State of Calaratio, a one-balf interast in and to all minorals underlying the following described property, including oil and gas, said property lying and being in the . . . County of El Paro and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eliven, Range Shity-four; the West half of the West half of Section Nineteen, Township Eleven, Barge Shity-four; the South half of the Southeast Quarter of Saction Thisteen, Township Eleven, Range Shity-five; All of Section Twenty-fair, Township Eleven, Ringe Shity-five, castifining in all Nine hundred and (Nity-two bundredths (900:52) acres, more or less, according to Government with all its appartenances No DATED and signed this 22 day of Nou. Consideration ...... STATE DOCUMENTS NOV 2 9 1986 nme. · FEE S... STATE OF COLORADO COUNTY OF EL PASO day of le u i 

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

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

PURSUANT TO SECTION 37-90-107(7), C.R.S. Please note: This application may only be used to apply for a determination of rights to ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer underlying land areas located within a Designated Ground Water Basin. Review the instructions on the reverse of this form. This form must be completed, signed, dated and submitted to the Ground Water Commission with a non-refundable \$60 filing fee. A separate form must be used for each aquifer determination. Type or print in black ink.

1. APPLICANT INFORMATION	
Name of Applicant	
George F. McCune and Evelyn McCune	
Applicant Mailing Address	
17480 Meridian Road, Elbert, CO 80106-8916	
c/o Colorado Water Plans, P O Box 1955, Elbert, CO 80106	
Applicant Telephone Number (include area code)	
- 303 648-9090 Contact 303 646-4201 719- 495- 2562	
2. AMOUNT OF OVERLYING LAND - the total and area 3. AQUIFER Arapahoe NT	
claimed and described by the applicant in Item #8 below.	
consisting of 900.52 acres.	
4. EXISTING WELLS - Are there any wells located on the claimed and described overlying land? Y	esNo_X
If yes, provide a complete list of all wells located on the overlying land area as an attachment to this a	pplication.
5. ANNUAL AMOUNT OF GROUND WATER ~ to be withdrawn, for intended beneficial uses, from	The devices underfailers the
described land area claimed by the applicant in Item #8 below. Please specify one of the following:	
	ble annual acre-feet, excluding
6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be with	drawn from the aquiter
All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following b	eneficial uses: demestic,
industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscate	rial habitat less than 1000
square feet and wildlife. The water will be produced for immediate application to said uses, for storage and so uses, for replacement of depletion's from the use of water from other sources and for all other augmentation p	ibsequent application to said
and so representation a reflection a transfer as or writer from order sources and lot, an other stational b	arposes
7. PLACE OF USE - of the ground water shall be considered to be that overlying land area claimed and	d december of her the second second
Item #8 below, unless a legal description or accurate scale map is provided which describes an alterna	d described by the applicant in
8. REQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall alic	cate ground water from the
Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. F Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim	or this reason, a Nontributary
description of the overlying land area subject to this determination, must be submitted as an attachment	(form GvvS-46), including a
9. SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein	constitutes perjury in the
second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I h herein, know the contents thereof, and state that they are true to my knowledge.	ave read the statements
Signature George 7 MC Curl of Evelyn m. mc Curre Date april	14.2008
- print name and title George F. McCune and Evelyn McCune, Owners	
	Trans Number: 3628088 K
FOR OFFICE USE ONLY	W11/2000 1:54:24 FM
	Geoff Devis (21) Total Trans Amt: \$240.00
0 1 7	CHECK
DIV_8_COWD_L_BASIN 2_MD	Check Number: 0724
	CHECK AMOUNT: \$220.00

RECEIVED

APR 1 7 2008



# **COLORADO** WATER PLANS

## Water Consultants

Colorado Ground Water Commission Division of Water Resources Department Of Natural Resources 1313 Sherman Street - Room 818 Denver, Colorado 80203

Re: Application for Determination of Water Right Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

**Client:** 

ange 7 Mc Come + Earlyn M. Ing Come By:

Date: 4-14-08

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

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P.O. Box 1955 / Elizabeth / Colorado / 80107 Office: 303/646-3895 Fax: 303/646-9655

REPETER

2008

#### DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT: George F. McCune and Evelyn McCune

BASIN: Kiowa-Bijou

COUNTY: El Paso

AQUIFER: Arapahoe RECEIPT NO. 36280888

NUMBER OF ACRES IN TRACT: 900.52 acres

GENERAL LOCATION: SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6<sup>th</sup> PM, S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6<sup>th</sup> PM.

#### **AQUIFER DATA**

AMOUNT AVAILABLE FOR APPROPRIATION: (260 feet SS)(900.52 Acres)(0.17 SY) = 39803 AF 398.0 AFyr

ADJUSTMENTS: None

ANNUAL AMOUNT: 398.0 AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: N/A

OVERLAP AREA: N/A

AREA CHECKED: Sections 18, 19, and 30, T11S, R64W Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: N/A

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA: Nontributary

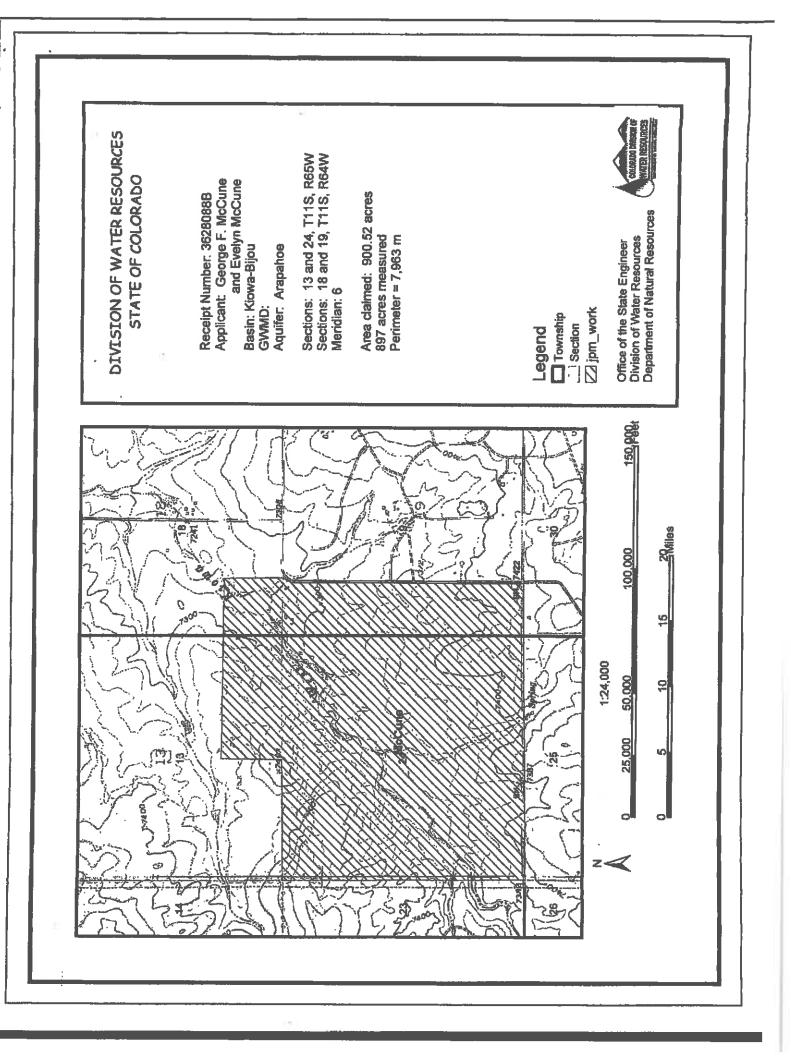
REPLACEMENT PLAN REQUIRED: Not Required

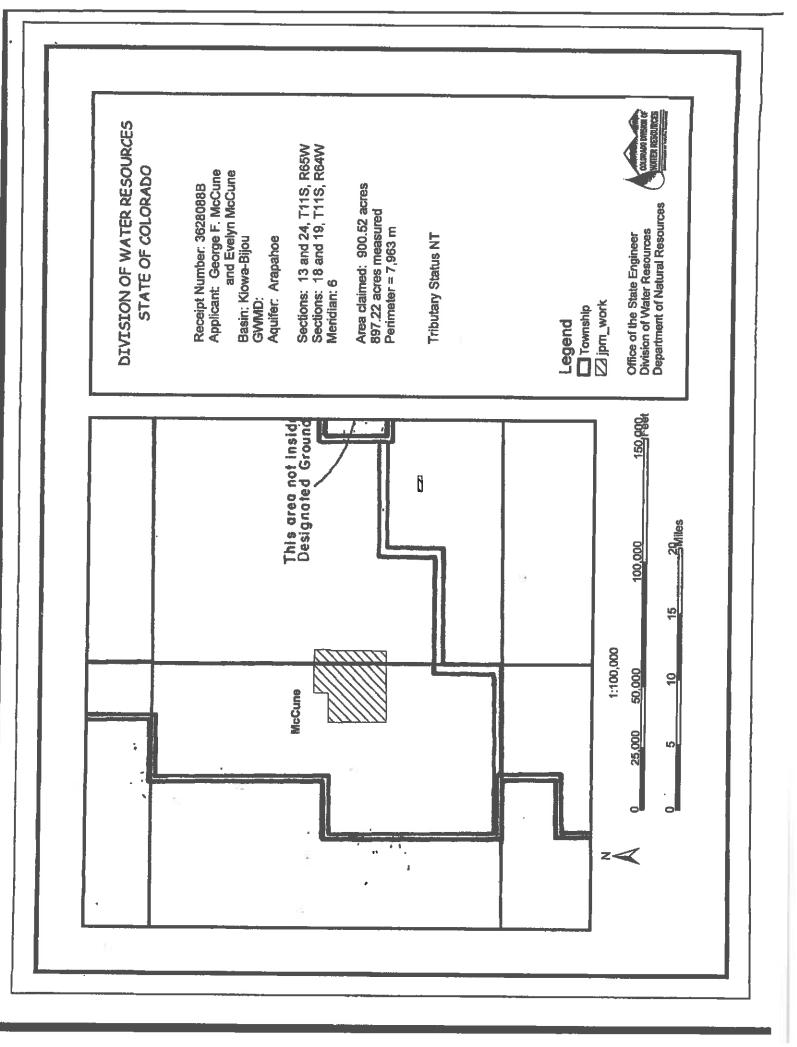
AQUIFER INTERVAL (CENTRAL DATA POINT): 1810 feet to 2310 feet below ground surface

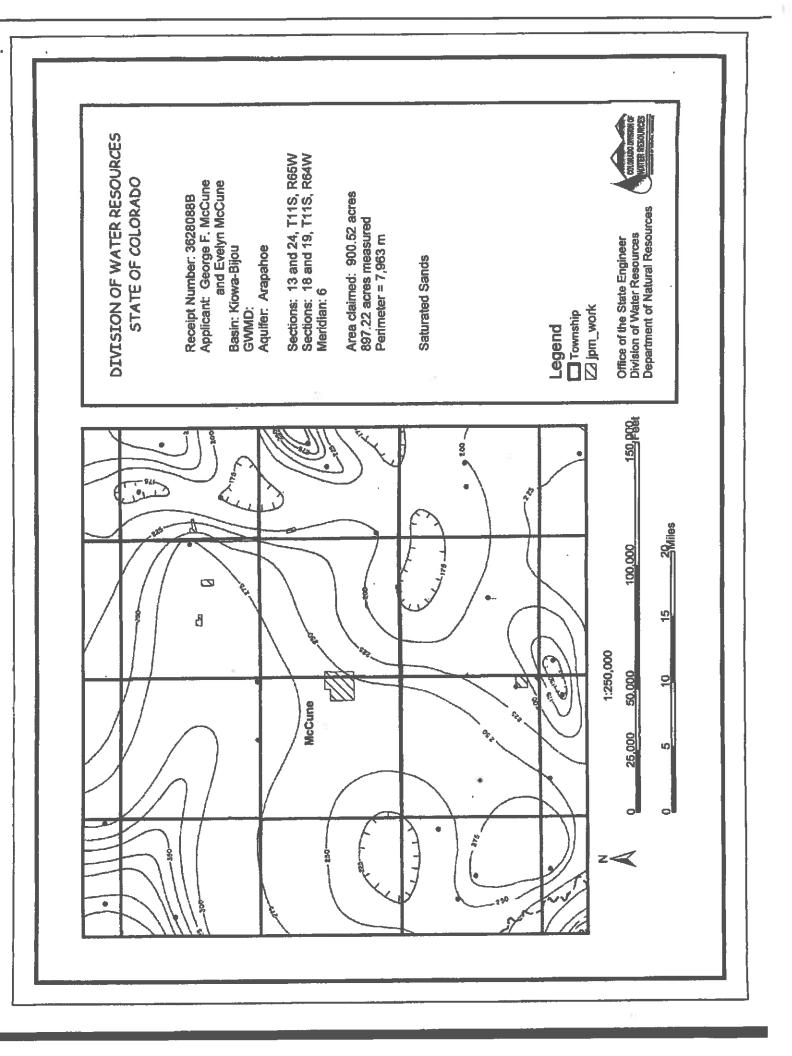
COMMENTS: The SS was considered 260 feet based on the SS map for the Arapahoe aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff Reviewed by CBG

C:\Documents and Settings\jpmWy Documents\Water Right Aps\McCune\McCune Arapahoe Determ.doc







## **DUBLISHER'S AFFIDAVIT**

# STATE OF COLORADO

I, Susan Lister, do solemnly affirm that I m the Publisher of RANCHLAND NEWS; tat the same is a weekly newspaper pubshed at Simla, County of Elbert, State of olorado, and has a general circulation verein; that said newspaper has been connuously and uninterruptedly published in said county of Elbert for a pariod of at least 52 onsecutive weeks next prior to the first pubsation of the annexed notice, that said newsaper is entered in the post office at Calhan, olorado as second class mail matter and that aid newspaper is a newspaper within the leaning of the Act of the General Assembly the State of Colorado, approved March 30, 923, and entitled "Legal Notices and Adversements," with other Acts relating to the printg and publishing of legal notices and adartisements. That the annexed notice was ublished in the regular and entire issue of ald newspaper, once each week for 100 scessive weeks; that the first publication of aid notice was in the issue of said newspaar dated:

may 8.2008

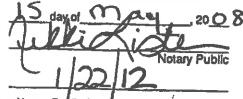
It the last publication of said notice was in e issue of said newspaper dated:

lay 2008 11

Id that copies of each number of said paper which said notice and/or list was published are delivered by carriers or transmitted by ail to each of the subscribers of said newsaper, Ranchland News, according to the xusterned mode of busiquess in this office.

0 Publisher

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



y Notary Public Commission Expiration Date)

## Determinations of Water

Right

REFORE THE COLORADO GROUND WATER COMMENSION KIOWA-BLIOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCone and Rvelya McCane (harvisafler "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Lammie-Fox Hills, Arapahos, Denver, and Dawnon aquifiers underlying 900.52 same generally described as the SW1/4 of the SW1/4, Section 14, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Rings 64 West of the 6th PM and the S1/2 of the SE1/4, Section 15 and all of Section 24, Township 11 South, Range 65 West of the 6ª PML licent oluine dwinnihip of this land and The are control of the ground water in the above describ squifter under this property. The ground water allocations from these squifters will be used on the described property for the following beneficial men domentic, industrial, commercial, internian, sture pouds and piscatorial habitat loss than 1000 square fost and wildlift, replacement and all other augmentation purposes. The territory allowable summil amount of ground water to each agilifer underlying the described property will be 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. equifters based on ownership of the overlying land and an aquifer life of one hundred years. A preliminary evaluation of the applications by the Commission Staff finds the annual amount of water available, for allocation from each of the described equifers underlying the abovedescribed property to be as follows: 263.4 acrofeet for the Laramie-Fox Hills, 398.0 acre-feet for the Arapahoe, 528.2 acre-first for the Denver. and \$19.5 for the Dewson subject to final staff evaluation. The estimated available annual acro-foet allocation amount for each, squifte indicated above may be increased or decreased by the Commission to conform to the actual equifier characteristics, based upon site specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquifers underlying the shows-described property to be as follows: nontributary for the Laramio-Fox Hills, nontributary for the Aragabos, nontributary for the Desver, and nonnoutributary (actual impact replacement) for the Desver.

Dawson. Upon Commission approvel of, these determinations of water right, well journing for wells to withdraw the allocation floor a specific aquifer shall be available upon application, subject to the conditions of the determinations and the Dasignative Basin Rules and subject to opproval by the Commission. Such wells sumt becompleted in the specified aquifer and located on the above described 900.52 are property. Well parants for wells to withdraw ground water from the Davison aquifar would also be athject to the contributes of a replacement plan to be approved by the Councilation.

Any person wishing to object to the approval of these determinations of water right must do so in writing, briefly anting the name of the objection and indicating the showe applicant, property descriptions and the specific aquifies that are the subject of the objection. The objection, must be accompanied by a \$10 per aquifier for and must be acceived by the Commission Staff, Colorado [Ground Water Commission, \$18 Contenda] Building, 1313 Sherman Street, Deuver, Colorado \$0203, by June 16, 2008.

ł.

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

## RECEIVED

## MAY 1 9 2008

WATTR PRODUCES STATE AND ADDRESS STATE ADDRESS

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## DEPARTMENT OF NATURAL RESOURCES

# DIVISION OF WATER RESOURCES

Bill Ritter, Jr. Governor

June 27, 2008

Harris D. Sherman , Executive Director Dick Wolfe, P.E. Director

George F. and Evelyn McCune 17480 Meridian Road Elbert, CO 80106-8916

### **RE: Determination of Water Right**

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1690-BD, for the allocation of ground water in the Arapahoe aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely,

Jutto P. Micol

Justina P. Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosures: a/s

Office of the State Engineer 1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589 www.water.state.co.us

Norado Department of Natural Resources	Colorado.gov Contact U:
la laraja Divisia di	Colorado.gov () Collact C.
Neiler Resources	
lorado'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 biodisment)	
Permit Issued; Completion Status Unknown Help Last Refresh: 12/6/2016 12:03:01 AM	A
Receipt: 3628088C Division: 1	
Permit #:     1691-BD -     Water District:     1       Weil Name / #:     County:     EL PASO	
Well Name / #:         County:         EL PASU           Designated Basin:         KIOWA-BIJOU         Management District:	
Case Number:	
WDID:	
[-] Imaged Documents - Permit File	
Document Name         Date Image         Annotated           Findings & Order for Determination         05/21/2009         No	
[-] Applicant/Contact Applicant/Contact Name Malling 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 11.0S 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 <u>Imaged Documents</u> for more infomation)	
General Use(s): COMMERCIAL Aquifer(s): DENVER	
DOMESTIC	
Special Use:	
Special Use: Area which may be irrigated:	
Area which may be irrigated: Annual volume of appropriation:	
Area which may be irrigated: Annual volume of appropriation: Statute:	
Area which may be Irrigated: Annual volume of appropriation: Statute: Cross Reference Permit(s): Permit Number Receipt	
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Area which may be Irrigated:         Annual volume of appropriation:         Statute:         Cross Reference Permit(s): Permit Number Receipt         Comments: DETER ISSUED         [-] Construction/Usage Details         Well Construction Date:         Pump Installation Date:         Well Plugged:         1st Beneficial Use:         Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate         [-] Application/Permit History         Permit Issued       06/25/2008         Application Received       04/17/2008         Disclaimer       *The Information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.	
Area which may be irrigated:         Annual volume of appropriation:         Statute:         Cross Reference Permit(s): Permit Number Receipt         Comments: DETER ISSUED         [-] Construction/Usage Details         Well Construction Date:         Pump Installation Date:         Well Construction Date:         Well Construction Date:         Pump Installation Date:         Well Plugged:         Ist 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	
Area which may be irrigated:         Annual volume of appropriation:         Statute:         Cross Reference Permit(s): Permit Number Receipt         Comments: DETER ISSUED         [-] Construction/Usage Details         Well Construction Date:         Pump Installation Date:         Well Plugged:         1st Beneficial Use:         Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate         [-] Application/Permit History         Permit Issued       06/25/2008         Application Received       04/17/2008         Disclaimer         *The Information contained on this page Is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.         This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction Information, or to determine the terms and conditions under well remit file should be viewed to obtain details on the allowed	
Area which may be irrigated:         Annual volume of appropriation:         Statute:         Cross Reference Permit(s):       Permit Number         Receipt         Comments: DETER ISSUED         [-] Construction/Usage Details         Well Construction Date:       Pump Installation Date:         Well 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	
Area which may be Irligated:         Annual volume of appropriation:         Statute:         Cross Reference Permit(s): Permit Number Receipt         Comments: DETER ISSUED         [-] Construction/Usage Details         Well Construction Date:         Pump Installation Date:         Well Plugged:         1st Beneficial Use:         Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate         [-] Application/Permit History         Permit Issued       06/25/2008         Application Received       04/17/2008         Disclaimer         **The Information contained on this page Is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.         This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction Information, or to determine the terms and conditions under use the well we use on an and conditions under the well well as the ownel as a construction or to determine the allowed uses of the well to be used as a basis for any legal consideration. to determine the allowed may and conditions under the well well well as on the allowed well as a basis for any legal consideration.	

more about well permitting in Colorado, please visit <u>DWR's Well Permitting Page</u>. If you have any questions about this well permit file, please contact the <u>DWR Ground Water Information Desk</u>.

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## COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

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

APPLICANT:	GEORGE F. N	ICCUNE AND EVELYN MCCUNE	And the second sec
AQUIFER:	DENVER		lenne Allenne Allenne
DETERMINATI	ON NO.:	1691-BD	

In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Denver Aquifer.

#### FINDINGS

- 1. The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
- 2. The applicant requests a determination of rights to designated ground water in the Denver Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
- 3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
- 4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter "Commission") has jurisdiction.
- 5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
- 6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 52800 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 17 percent.

b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 345 feet.

- 7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
- 8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 528 acre-feet.
- 9. A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
- 10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
- 11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
- 12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural steam or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
- 13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
- 14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

- 15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.
- 16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
- 17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aquifer.

#### ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Denver Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

- 18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 528 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal amount of withdrawal.
- 19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
- 20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
- 21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
- 22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area.

- 23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county in which the claimed overlying land is located notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
- 24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:

a. The wells shall be located on the above described 900.52 acre overlying land area.

b. The wells must be constructed to withdraw water from only the Denver Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.

c. The entire depth of each well must be geophysically logged <u>prior</u> to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.

d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.

e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.

f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.

25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Page 4

Dated this <u>. 25 Th</u> day of <u>June</u> 2008.

1. Week

Dick Wolfe, P.E **Executive Director** Colorado Ground Water Commission

N. Shanness 1.10. mil By:\_ Keith Vander Horst, PEE

Water Resource Engineer

Prepared by: JPM

Page 5

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EXHIBIT A

1691-BD

Page 1 of 2

## STATE OF COLORADO OFFICE OF THE STATE ENGINEER DIVISION OF WATER RESOURCES 1313 Sherman St. Room 821 Denver, CO 80203 (303) 866-3581 Fax (303) 866-3589

BECEIVED

APR 1 7 2008

WATTE RESOURCES COLO

## NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT

I (We) George F. McCune and Evelyn McCune

(Name(s))

claim and say that I (we) am (are) the owner(s) of the following described property consisting of 900.52 acres in the County of El Paso State of Colorado:

(Insert the property legal description)

SW/4SW/4 Section 18 and W/2 of the W/2 Section19, T11S, R64W, and S/2SE/4 Section 13

and All of Section 24, T11S R65W, 6th PM, El Paso County, 900.52 acres

See attached Quitclaim Deed dated November 29, 1976, and map.

and, that the ground water sought to be withdrawn from the Denver aquifer underlying the above-described land has not been conveyed or reserved to another, nor has consent been given to its withdrawal by another.

Further, I (we) claim and say that I (we) have read the statements made herein; know the contents hereof; and that the same are true to my (our) knowledge.

Signature

George 9 Mc Cune Date Evelyn Mr. Mc Cum

Signature

INSTRUCTIONS:

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word processing means. See additional information on the reverse side.

EXHIBIT A 1691-BD . Na sta 5 8 P R. Page 2 of 2 RECEIVED QUITCLAIM DEED Boot COPY Available APR 1 7 2008 **L**OOS RAY C. McCUNE and GRETA C. McCUNE, as huband and wife, of the County Wares Provide And County of El Paro and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLO good and valuable considuration, in hand paid, hereby sell and guit claim to GEORGE F. McCLINE and EVELYN M. McCUNE, husband and wife, in joint tenancy, of the County of Elbert and State of Colorado, a one-half interest in and to all minorals underlying the following described property, including oil and gas, said property lying and being in the County of El Paus and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Shity-four; the West half of the West half of Section Nineteen, Township Eleven, Range Shity-four; the South half of the Southeast Quarter of Section Thirteen, Township Eleven, Range Shity-five; All of Section Tweaty-four, Township Eleven, Range Shity-five, containing in all Nine hindred and filty-two hundredths (900:52) acres, more or less, according to Government Sections. with all its applatenances. Nø DATED and signed this 22 day of Nou. Consideration STATE DOCU NOV 2 9 1926 FEE & Dome STATE OF COLORADO. ) COUNTY OF EL PASO The foregoing instrument was acknowledged before me this 2) day of )ov: . × e ĝ . s)

## DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 Sherman St, Room 818, Denver, CO 80203 APPLICATION FOR DETERMINATION OF WATER RIGHT

COLORADO GROUND WATER COMMISSION

1.

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

Please note: This application may only be used to apply for a determination of rights to ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer underlying land areas located within a Designated Ground Water Basin. Review the instructions on the reverse of this form. This form must be completed, signed, dated and submitted to the Ground Water Commission with a non-refundable \$60 filing fee. A separate form must be used for each aquifer determination. Type or print in black ink.

1. APPLICANT INFORMATION
Name of Applicant
George F. McCune and Evelyn McCune
Applicant Mailing Address
17480 Meridian Road, Elbert, CO 80106-8916 c/o Colorado Water Plans, P O Box 1955, Elbert, CO 80106
Applicant Lelephone Number (include area code)
-303 648-9090- Contact 303 646-4201 719- 495-2562
2. AMOUNT OF OVERLYING LAND - the total and area claimed and described by the applicant in Item #8 below, consisting of 900.52 acres.
EXISTING WELLS – Are there any wells located on the claimed and described overlying land? Yes No _X
<ol> <li>ANNUAL AMOUNT OF GROUND WATER – to be withdrawn, for intended beneficial uses, from the aquifer underlying the described land area claimed by the applicant in Item #8 below. Please specify one of the following:</li> </ol>
Maximum allowable annual acre-feet annually Maximum allowable annual acre-feet, excluding acre-feet from that amount
6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be withdrawn from the aquifer
All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following beneficial uses: domestic,
industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife. The water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for replacement of depletion's from the use of water from other sources and for all other augmentation purposes
7. PLACE OF USE - of the ground water shall be considered to be that overlying land area claimed and described by the applicant in Item #6 below, unless a legal description or accurate scale map is provided which describes an alternate/additional place of use.
8. REQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall allocate ground water from the
Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. For this reason, a Nontributary Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim (form GWS-48), including a description of the overlying land area subject to this determination, must be submitted as an attachment to the application.
9. SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein constitutes perjury in the
second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements therein, know the contents thereof, and state that they are true to my knowledge.
Signature George 7 Ma Cume Date
Endra The Shall
- print name and title George F. McCune and Evelyn McCune, Owners
4/772008 1:34/24 01
FOR OFFICE USE ONLY Geoff Devis (21) Total Trans Amt: \$240.00
DIVCOWDMD

## RECEIVED

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WATER RESOURCES STATE ENGINEER COLO.

# **COLORADO** WATER PLANS

## Water Consultants

Colorado Ground Water Commission Division of Water Resources Department Of Natural Resources 1313 Sherman Street - Room 818 Denver, Colorado 80203

Re: Application for Determination of Water Right Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

**Client:** Floring=7 Mc Come + Evelyn M. Mc Que By:

Date: 4-14-08

Colorado Water Plans LLC Craig L. Curl Dr. W. Jerry Koch Lisa S. Weinsteiti, Jsq. #35688

Date:

P.O. Box 1955 / Elizabeth / Colorado / 80107 Office: 303/646-3895 Fax: 303/646-9655

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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: Denver RECEIPT NO. 3628088C

NUMBER OF ACRES IN TRACT: 900.52 acres

GENERAL LOCATION: SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6<sup>th</sup> PM, S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6<sup>th</sup> PM.

#### **AQUIFER DATA**

AMOUNT AVAILABLE FOR APPROPRIATION: (345 feet SS)(900.52 Acres)(0.17 SY) = 52816 AF 528.2 AFyr

ADJUSTMENTS: None

ANNUAL AMOUNT: 528.2 AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: N/A

OVERLAP AREA: N/A

AREA CHECKED: Sections 18, 19, and 30, T11S, R64W Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: N/A

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA: Nontributary

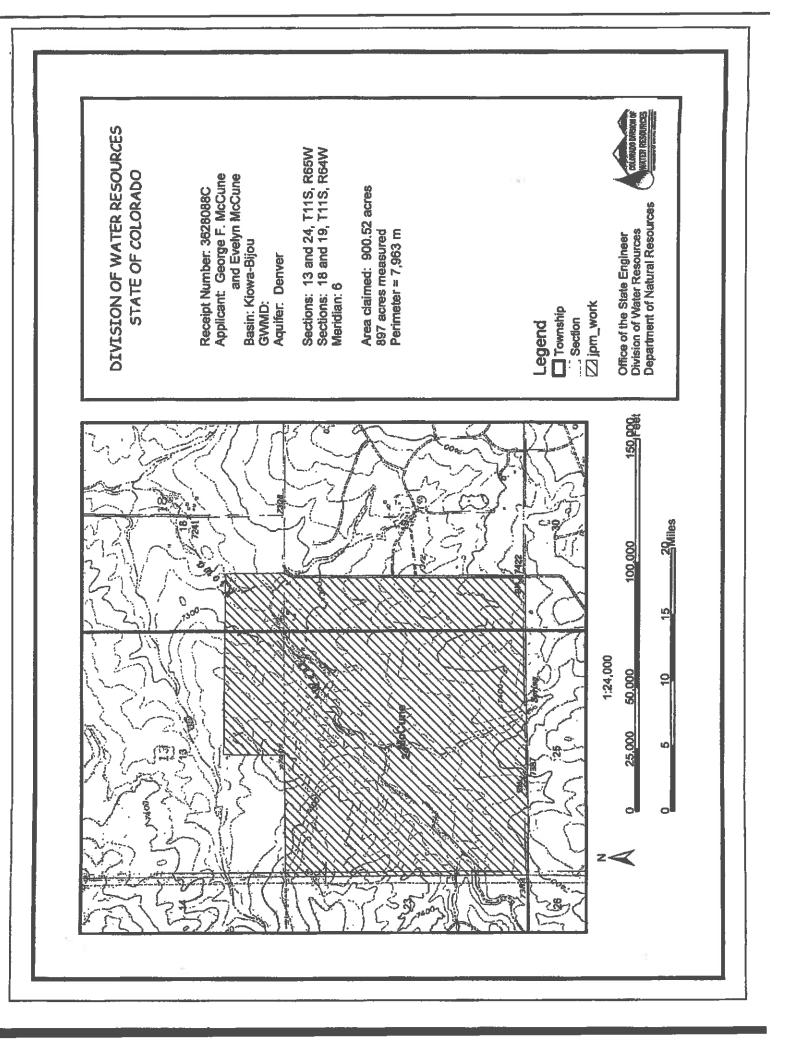
REPLACEMENT PLAN REQUIRED: Not Required

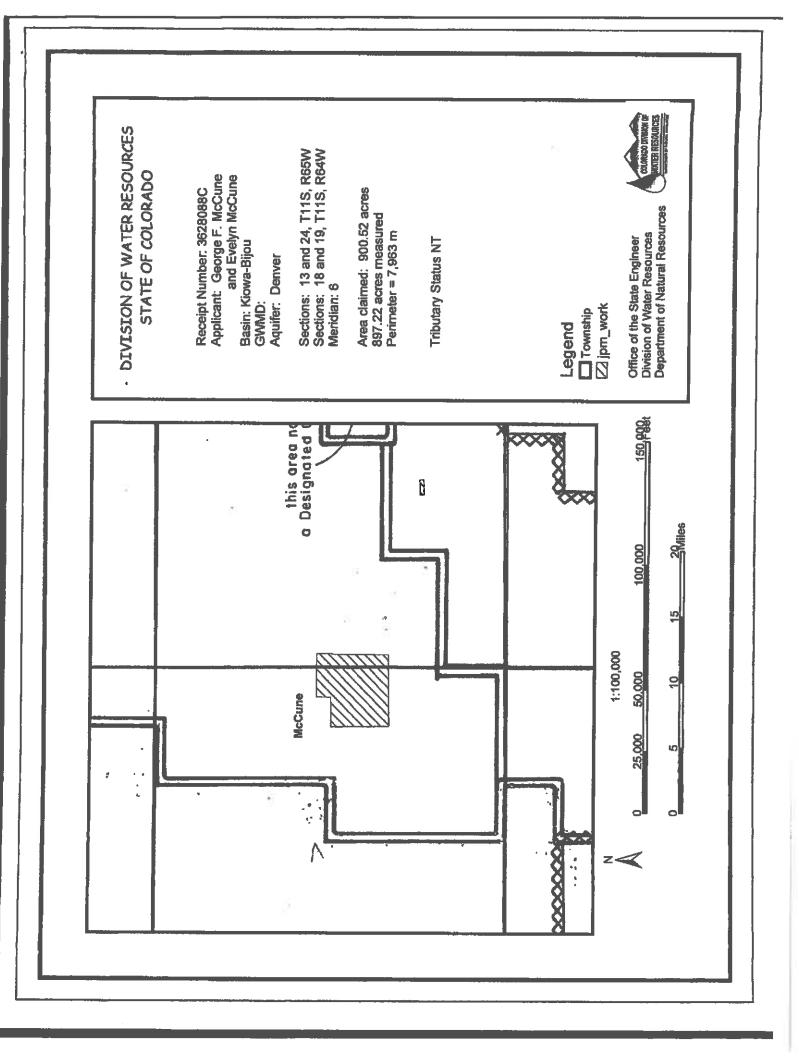
AQUIFER INTERVAL (CENTRAL DATA POINT): 970 feet to 1770 feet below ground surface

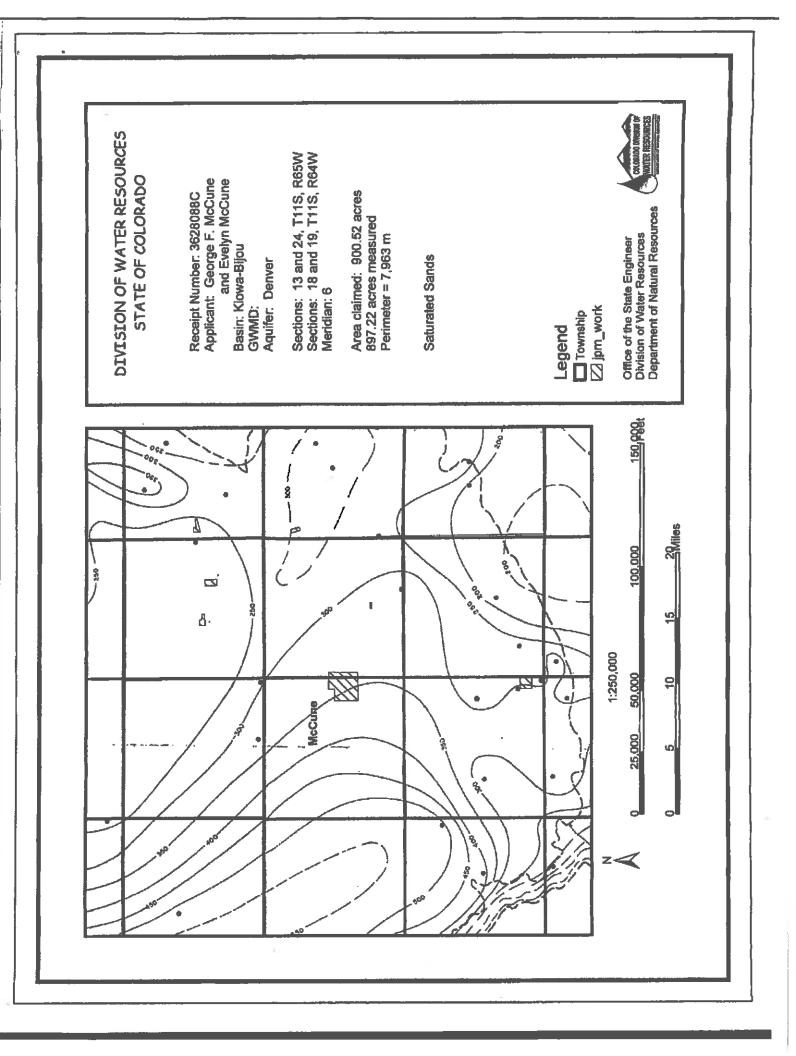
COMMENTS: The SS was considered 345 feet based on the SS map for the Denver aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff Reviewed by COC

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# **PUBLISHER'S AFFIDAVIT**

# COUNTY OF ELBERT

I, Susan Lister, do solemnly affirm that I m the Publisher of RANCHLAND NEWS; at the same is a weekly newspaper pubshed at Simia, County of Elbert, State of clorado, and has a general circulation terein; that said newspaper has been connuously and uninterruptedly published in said ounty of Elbert for a period of at least 52 onsecutive weeks next prior to the first pubcation of the annexed notice, that said newsaper is entered in the post office at Calhan, olorado as second class mall matter and that aid newspaper is a newspaper within the leaning of the Act of the General Assembly I the State of Colorado, approved March 30. 923, and entitled "Legal Notices and Adversements," with other Acts relating to the printg and publishing of legal notices and adartisements. That the annexed notice was blished in the regular and entire issue of aid newspaper, once each week for two iccessive weeks; that the first publication of aid notice was in the issue of said newspaer dated:

May 8 2008

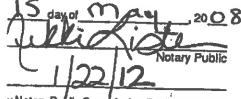
to the last publication of said notice was in e issue of said.newspaper dated;

lay 2008

Ind that copies of each number of said paper which said notice and/or list was published are delivered by carriers or transmitted by all to each of the subscribers of said newsiper, Ranchland News, according to the scustoyned mode of busigess in this office.

1 ale 3 Publisher

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



y Notary Public Commission Expiration Date)

**Determinations of Water** . . . Right BEFORE THE COLORADO GROUND WATER COMMESSION KIOWA-BUOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY TAKE NOTICE that , purposet , to Socia 37-90-107(7), C.R.S., George F. McCune and Evelyn McCure (hereinsther "applican") have applied for determinations of water right to allow the withdrawal of designated ground water from the Lammie-Fox Hills, Arapalne, Denver, and Dawnoi squiftre underlying 900.52 sures particully described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SEL/4, Section 15 and all of Section 24, Township 11 South, Range 65 West of the 6" PM. The applicant chains ownership of this land and control of the ground water in the above described. aquifies under this property. The ground water allocations from these aquifies will be used on the described property for the following beneficial une: dermite, industrial, commercial, inigation, augmentation, stock watering, necreational water feature pende and piscatorial habitat less than 1000 square fost and wildlife, repl rement and all other augmentation purposes. The constitutes allowable amount of ground water in each aquifer underlying the described property will be allocated.

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, the Colorado Ground Water Consulation shall allocate ground water from the above-described equifies based on ownership of the overlying and and an aquifer life of one handred years. A preliminary evaluation of the applications by fao Commission Staff finds the annual encount of weter available, for allocation from such of the described aquifers underlying the abovedescribed property to be as follows: 263.4 acrofost for the Lytumie-Fox Hills, 398.0 acre-fast for the Ampahos, 528.2 acre-feet for the Denver, and \$19.5 for the Dawnon subject to final staff evaluation. The estimated svailable, annual acco-fact, allocation, amount, for each aquifier indicated above may be increased or decreased by ad by the Commission to conform to the actual equifer ch noteristics, based upon aite specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquifes underlying the above-described property to be as follows: nontributary for the Laurane-Fox Hills, nontributary for the Argunhoe, nontributary for the Deaver, and notnontributary (actual impact replacement) for the Dawson.

Upon Commission approval of these determinations of water right, well permits for wells to withdraw the allowed allocation from a specific quiltr shall be available upon application, subject to the conditions of the determination and the Dasignapied Basis Rules and subject to approval by the Commission, Such wells must be completed in the specified squifer and located on the slove described 900.52 areo property. Well permits for wells to withdraw ground water from the Davyce aquifer would also be subject to the conditions of a sephacement plan to be approved by the Commission.

Any permits withing to object to the approval of these deterministices of water right sound do as in writing, helefly 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 aquifers the and must ; be received by the Commission Staff, Colorado Ground Water Commission, \$18 Contended 80203, by June 16, 2008.

à.

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

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#### MAY 1 9 2008

WATER CONNECTS 0711-111-140608 0711-111-140608

77.



## DEPARTMENT OF NATURAL RESOURCES

# DIVISION OF WATER RESOURCES

June 27, 2008

Bill Ritter, Jr. Governor Harris D. Sherman Executive Director Dick Wolfe, P.E. Director

George F. and Evelyn McCune 17480 Meridian Road Elbert, CO 80106-8916

## **RE: Determination of Water Right**

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1691-BD, for the allocation of ground water in the Denver aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely,

Justino P. Micolo

Justina P. Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosures: a/s

Office of the State Engineer 1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589 www.water.state.co.us

#### DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT: UNIVERSITY OF COLORADO FOUNDATION, INC.

BASIN: UPPER BLACK SQUIRREL CREEK

GWMD: UPPER BLACK SQUIRREL CREEK

COUNTY: EL PASO

AQUIFER: ARAPAHOE

**RECEIPT NO. 471559-C** 

NUMBER OF ACRES IN TRACT: 646.029 acres

GENERAL LOCATION: Section 35, Township 12 South, Range 65 West, of the 6th P.M.

#### **AQUIFER DATA**

AMOUNT AVAILABLE FOR APPROPRIATION: (215.SS)(646.029A)(.17SY) = 23612AF 236AFyr

ADJUSTMENTS: None

ANNUAL AMOUNT: 236AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: Permit No: 17048-F (Sec.25, Twp12S, Rng.65W, 6th P.M.) completed 54 % into the Arapahoe aquifer and 46 % into the Denver, Depth 1919 feet, 242 acre-feet. Permit No: 17648-F (Sec. 1,Twp.13S, Rng65W, 6th P.M.) completed 44% into the Arapahoe aquifer and 56 % into the Denver, Depth 1584 feet, 162 acre-feet

OVERLAP AREA: No overlap

AREA CHECKED: Sec. 25, 26, 35 and 36, Twp.12S, Rng.65W, 6th P.M. and Sec. 1, E1/2 of Sec.2, Twp.13S, Rng.65W, 6th P.M.

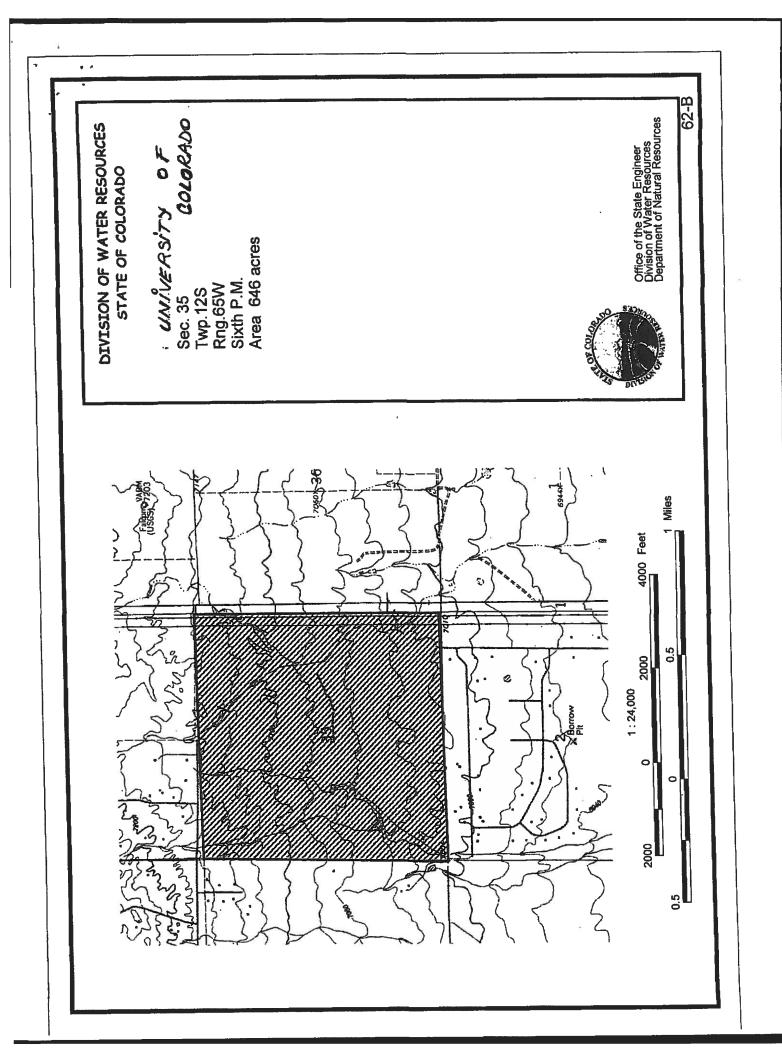
SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: None

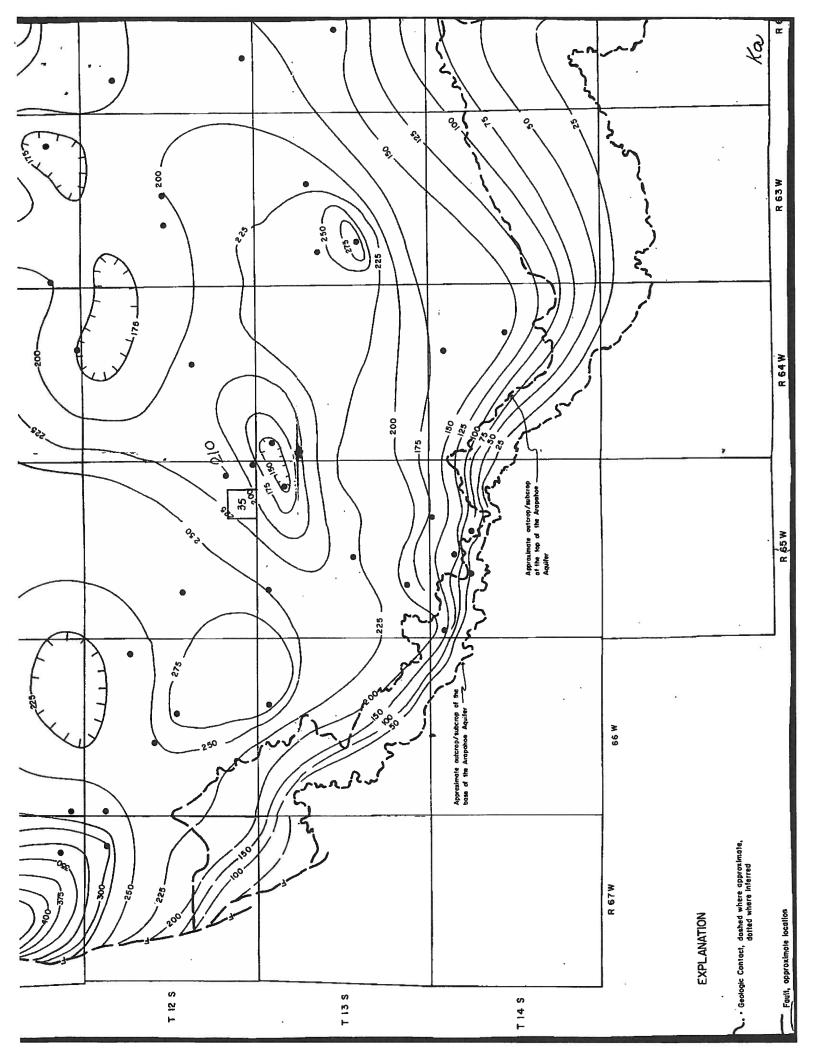
REPLACEMENT WATER STATUS OF CLAIMED LAND AREA: Nontributary

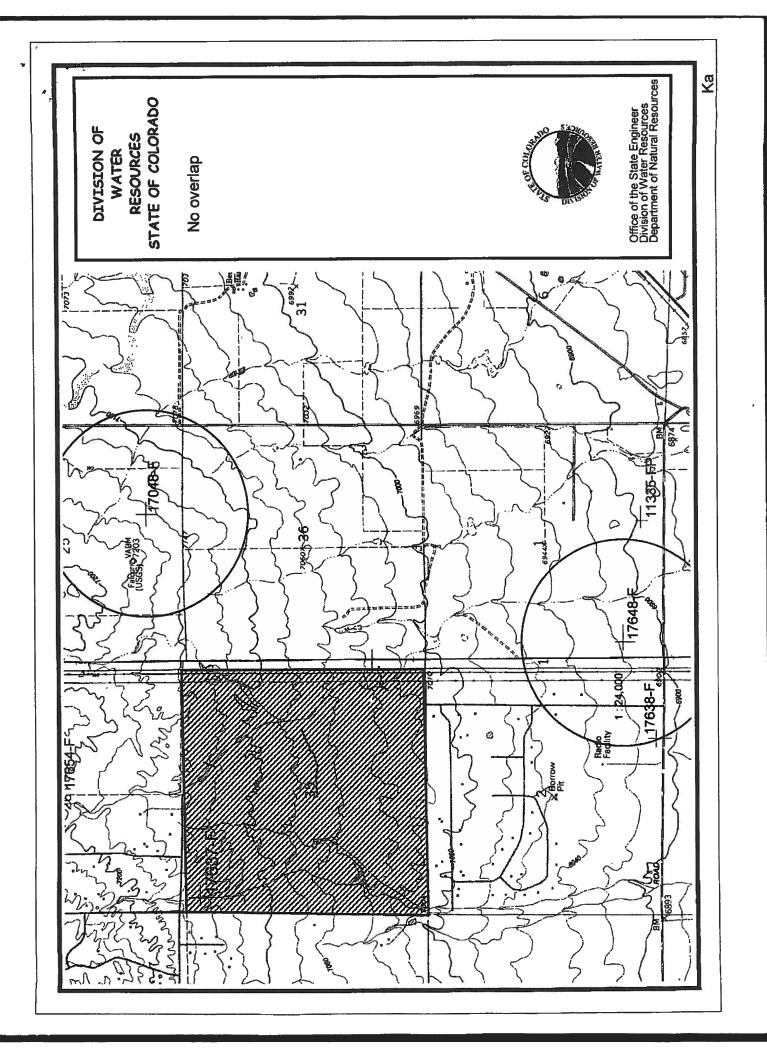
REPLACEMENT PLAN REQUIRED: No

AQUIFER INTERVAL (CENTRAL DATA POINT): 1295-1800

COMMENTS: The SS was considered 215 feet based on the review of the Designated Basin Rules (map) for the Arapahoe aquifer and review of the geophysical logs for the wells with Permit Nos. 17048-F and 17648-F.







#### DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT: UNIVERSITY OF COLORADO FOUNDATION, INC.

BASIN: UPPER BLACK SQUIRREL CREEK

COUNTY: EL PASO

AQUIFER: DENVER

RECEIPT NO. 471559-B

GWMD: UPPER BLACK SQUIRREL CREEK

NUMBER OF ACRES IN TRACT: 646.029 acres

GENERAL LOCATION: Section 35, Township 12 South, Range 65 West, of the 6th P.M.

#### **AQUIFER DATA**

AMOUNT AVAILABLE FOR APPROPRIATION: (300.SS)(646.029A)(.17SY) = 32947AF 329AFyr

ADJUSTMENTS: None

ANNUAL AMOUNT: 329AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: Permit No: 17048-F (Sec.25, Twp12S, Rng.65W, 6th P.M.) completed 54 % into the Arapahoe aquifer and 46 % into the Denver, Depth 1919 feet, 242 acre-feet. Permit No: 17648-F (Sec. 1,Twp.13S, Rng65W, 6th P.M.) completed 44% into the Arapahoe aquifer and 56 % into the Denver, Depth 1584 feet, 162 acre-feet

Permit No: 17638-F (Sec.2, Twp. 13S, Rng. 65W, 6th P.M.) completed 75% into the Denver and 25% into the Dawson, Depth 370 feet. 32.2 acre-feet

Permit No: 11335-FP (Sec.1, Twp.13S, Rng.65W, 6th P.M.) completed 23% into the Denver and 77% into the Dawson, Depth 238, 240 acre-feet

OVERLAP AREA: No overlap

AREA CHECKED: Sec. 25, 26, 35 and 36, Twp.12S, Rng.65W, 6th P.M. and Sec. 1, E1/2 of Sec.2, Twp.13S, Rng.65W, 6th P.M.

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: None

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA: alluvial contact-4% area)

Not nontributary (more than one mile of the aquifer

REPLACEMENT PLAN REQUIRED: No

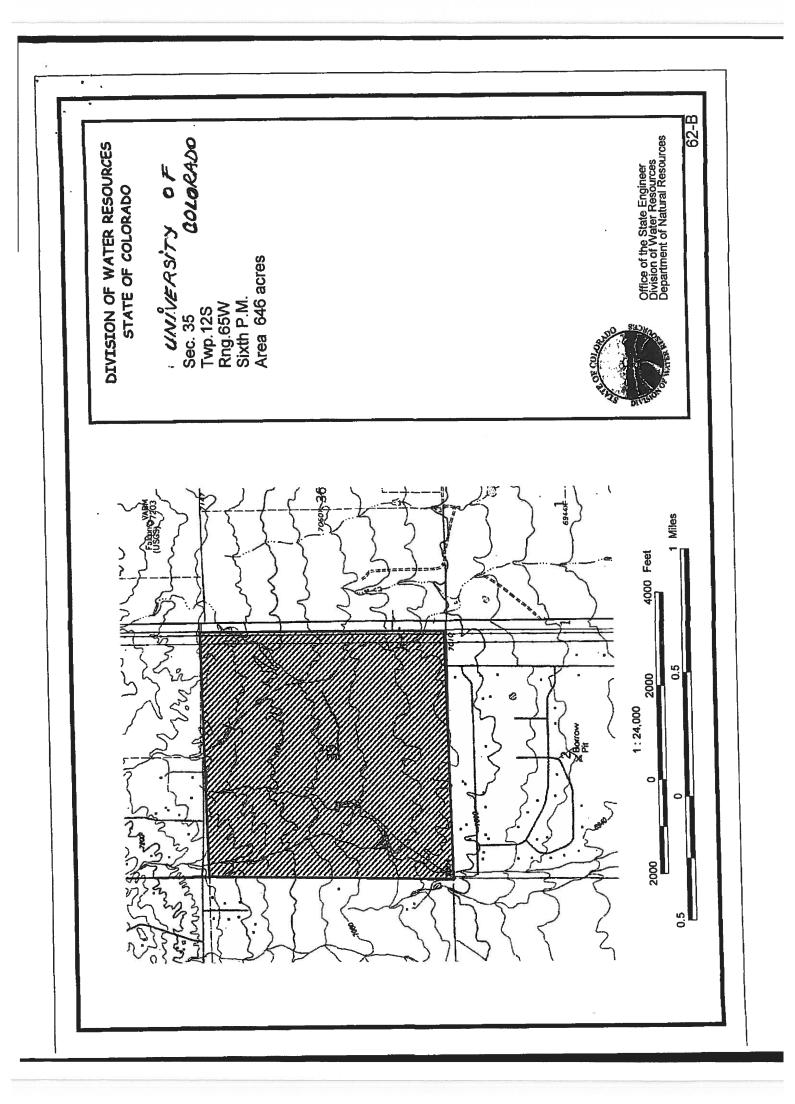
AQUIFER INTERVAL (CENTRAL DATA POINT): 365-1255

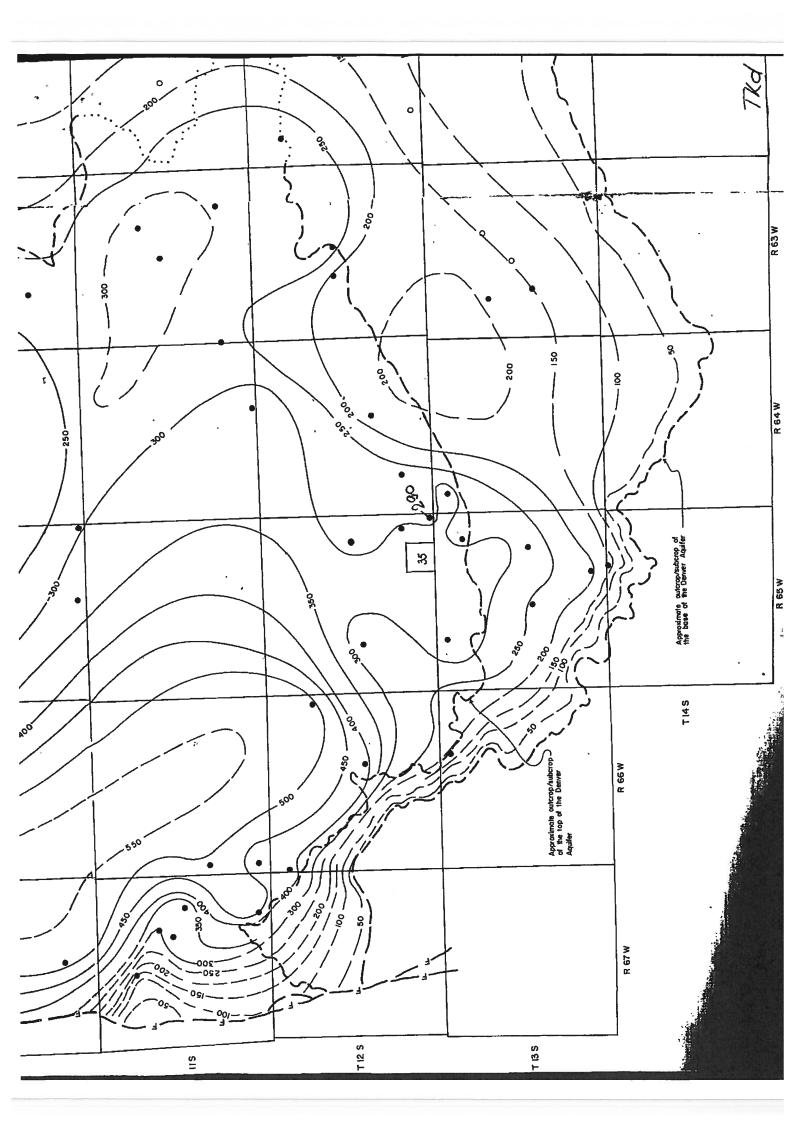
COMMENTS: The SS was considered 300 feet based on the review of the Designated Basin Rules (map) for the Denver aquifer, review of the geophysical logs for the wells with Permit Nos. 17048-F, 17648-F, 17638-F and 11335-FP and review of the evaluation of a previous Determination of Water Rights for Paint Brush Hills Metropolitan District located in Section 25 and E1/2 of Section 26, Township 12 South, Range 65 West of the 6th P.M.

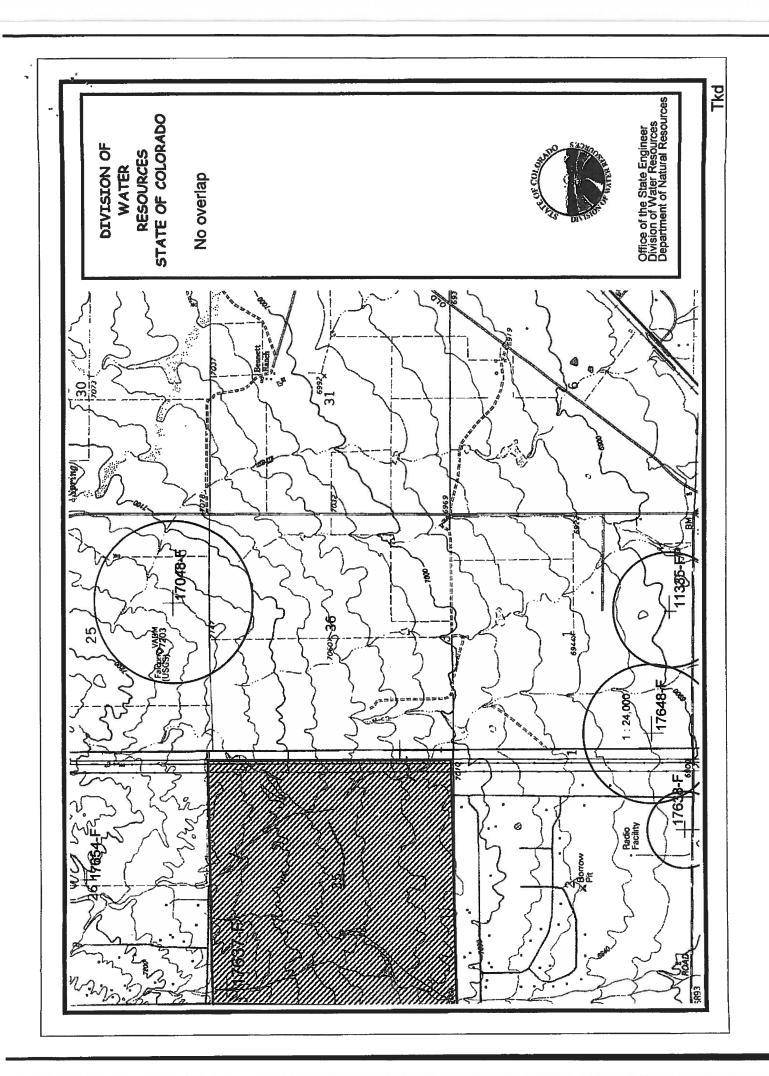
Evaluated by IDC Checked by RAC

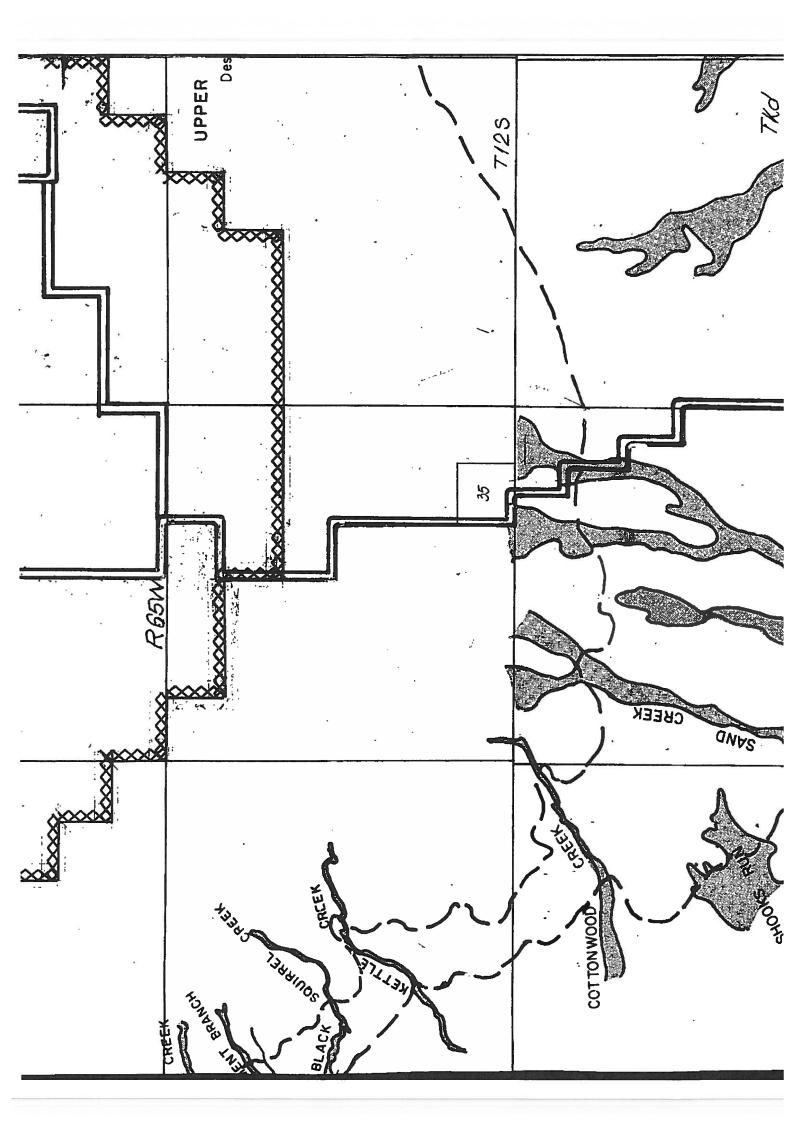
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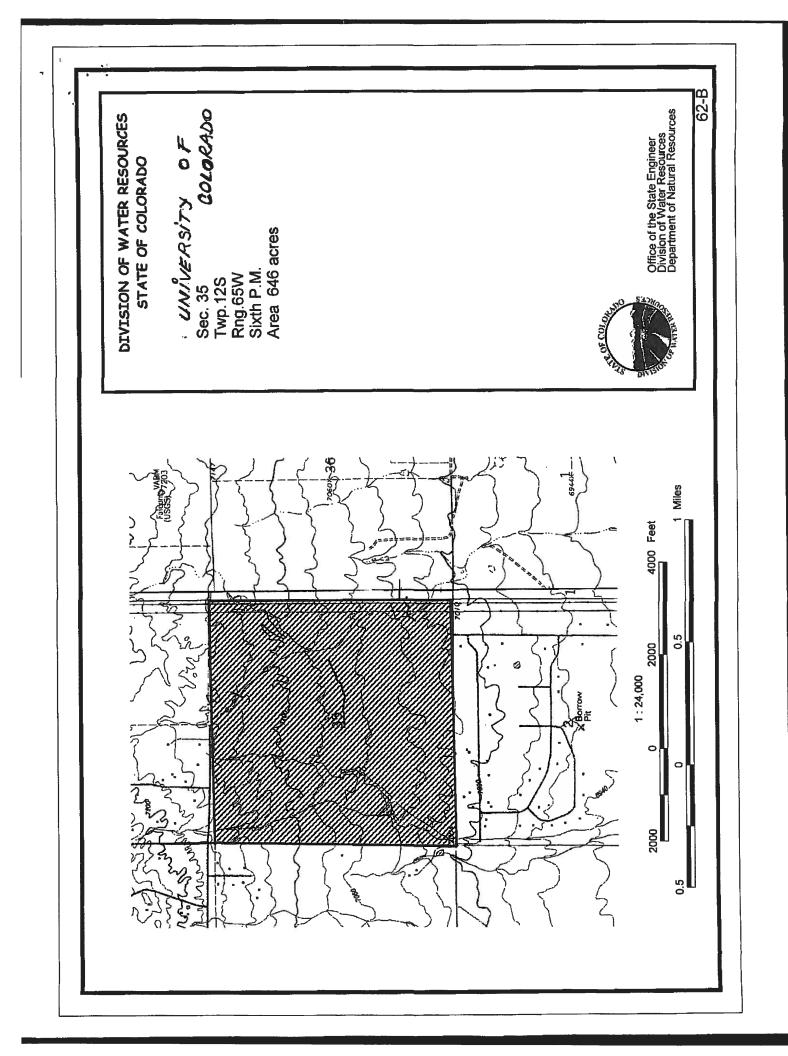


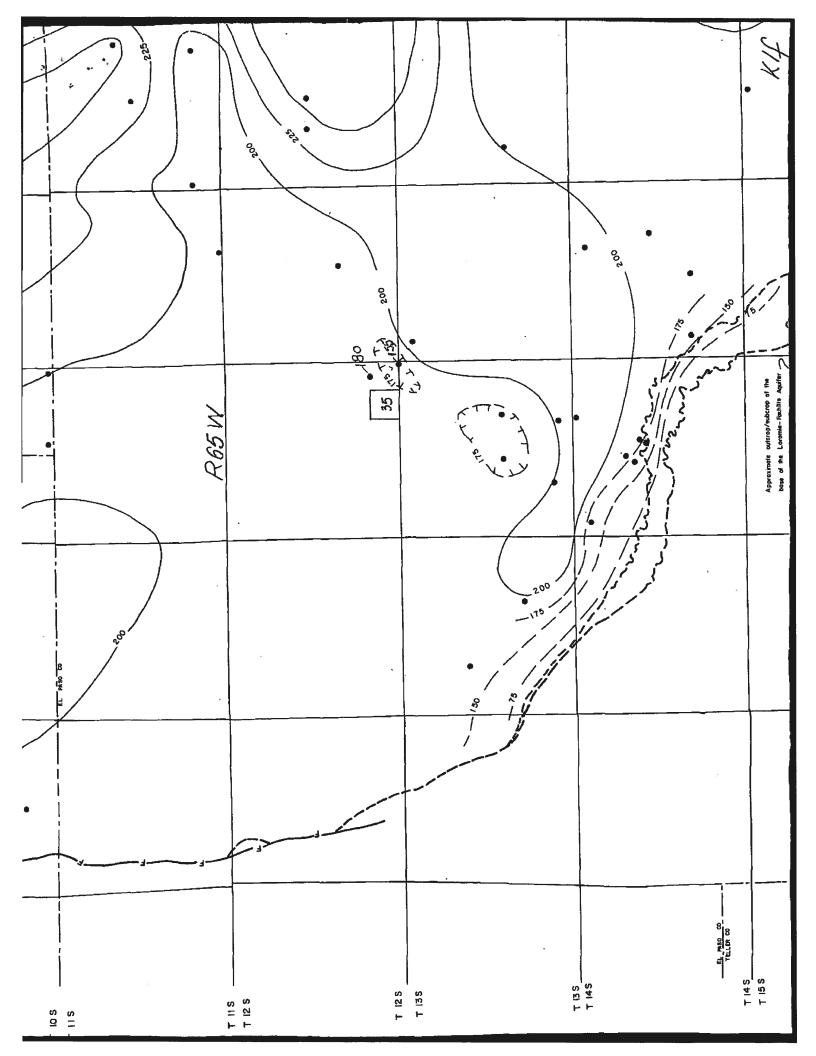


#### DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT: UNIVERSITY OF COLORADO FOUNDATION, INC. BASIN: UPPER BLACK SQUIRREL CREEK GWMD: UPPER BLACK SQUIRREL CREEK COUNTY: EL PASO AQUIFER: LARAMIE-FOX HILLS **RECEIPT NO. 471559-D** NUMBER OF ACRES IN TRACT: 646.029 acres GENERAL LOCATION: Section 35, Township 12 South, Range 65 West, of the 6th P.M. **AQUIFER DATA** AMOUNT AVAILABLE FOR APPROPRIATION: (175.SS)(646.029A)(.15SY) =16958AF 170AFyr ADJUSTMENTS: None ANNUAL AMOUNT: 170AFyr PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: None **OVERLAP AREA:** AREA CHECKED: Sec. 25, 26, 35 and 36, Twp.12S, Rng.65W, 6th P.M. and Sec. 1, E1/2 of Sec.2, Twp.13S, Rng.65W, 6th P.M. SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: None REPLACEMENT WATER STATUS OF CLAIMED LAND AREA: Nontributary REPLACEMENT PLAN REQUIRED: No 2080-2355 AQUIFER INTERVAL (CENTRAL DATA POINT): The SS was considered 175 feet based on the review of the Designated Basin Rules (map) for the Laramie-COMMENTS: Fox Hills aquifer.

Evaluated by IDC Checked by RAC



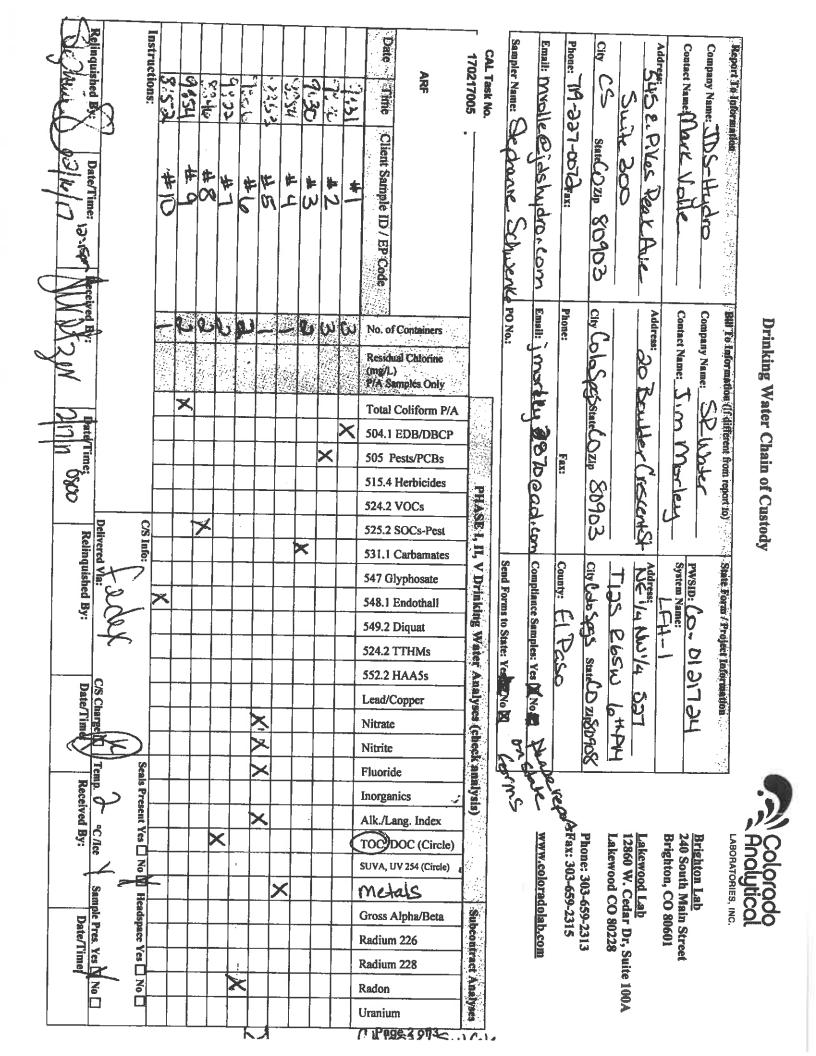


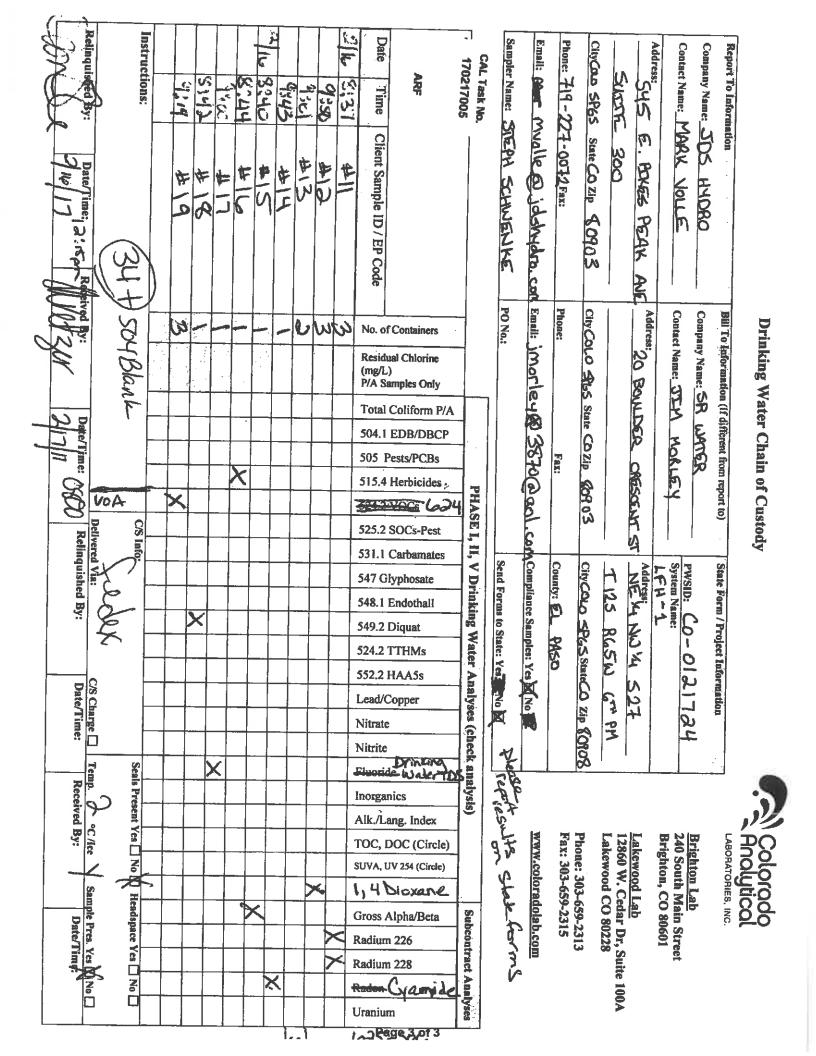
Appendix C

Coloredo Department of Public Health and Environment	1 #	Inor 4300 Fax	Inorganic Chemicals Certified Laboratory Report Forn WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO 80246-153 Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us	emicals Certified Laboratory Report Form WQCD - Drinking Water CAS Creek Drive South, Denver, CO 80246-1530 58-1398; cdphe.drinkingwater@state.co.us	orm 1530 D.us		Revise	Revised 6/13/2014
S	ection I (Sumlied	Section 1 (Sumlied or Completed by Public Water System)	Water System)	Section II (Su	Section II (Supplied or Completed by Certified Laboratory)	w Certified La	aboratory)	
	Public V	<b>Public Water System Information</b>	tion	U	<b>Certified Laboratory Information</b>	nformation		
PWSID#: CO-0121724	121724			Laboratory ID: CO 0015				
System Name: LFH-1	LFH-1			Laboratory Name: Colorado Analytical Laboratory	o Analytical Laborato	L,		
Contact Person: Mark Volle	: Mark Vollc		Phone #: 719-227-0072	Contact Person: Customer Service		Phone: 303-659-2313	2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
			Section III (Supplied or Comp	(Supplied or Completed by Public Water System)	0			
Sample Date: 2/16/17		Collector: Stephanie Schwe Facility II	Facility ID (On Schedule):	San	Sample Pt II) (On Schedule):	le):		
		Seci	Section IV Inorganic Chemicals (Completed by Certified Laboratory)	ompleted by Certified Labon	utory)			
Lab Receipt Date	I ab Analysis Date	Lab Sample II)	Analyte Name	CAS No	Analytical Method	MCL.	Lab MRL	Result (mo/1)
2/17/17	2/17/17	170217005-01	Fluoride	7681-49-4	EPA 300.0	4	60.0	1.07

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

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

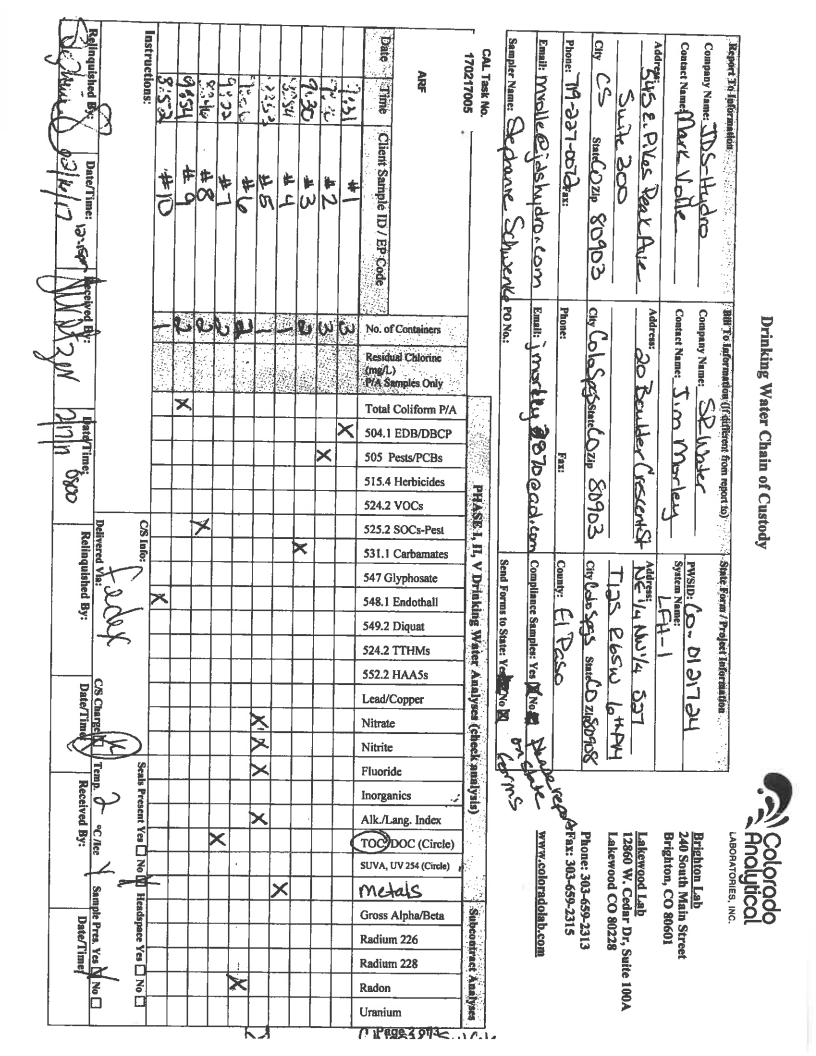


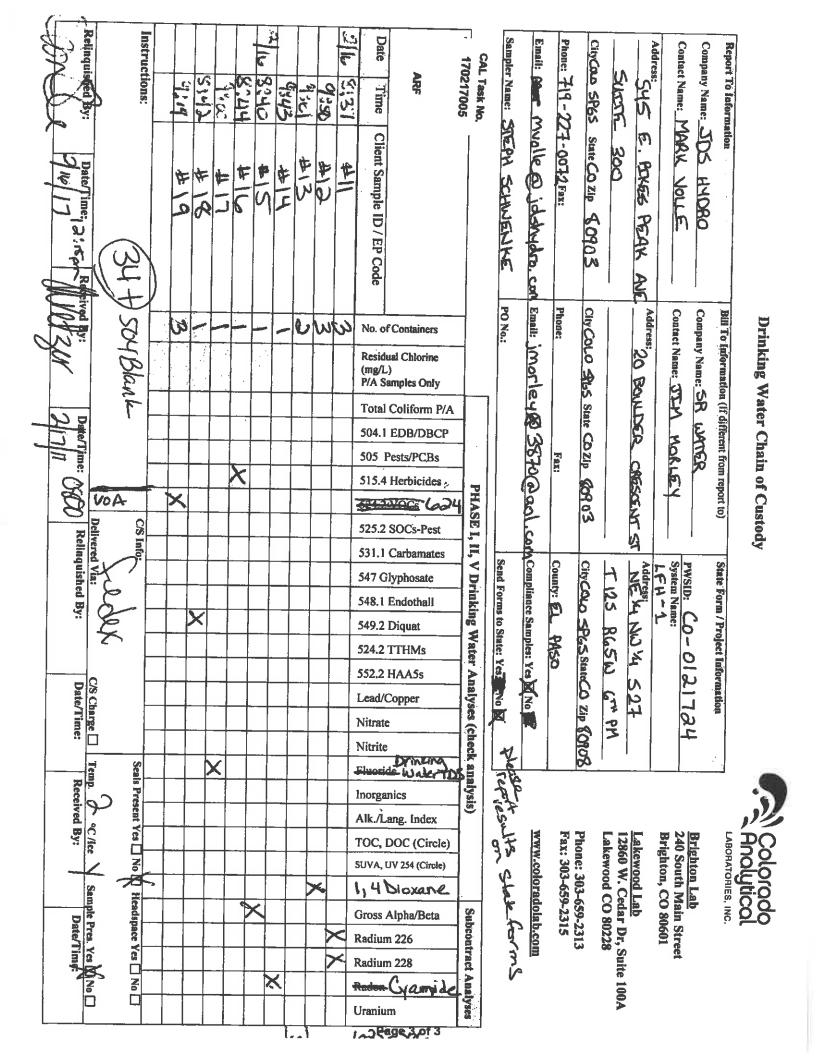


Q		Inor	ganic Chemicals Certified Laboratory ] WOCD - Drinking Water CAS	Inorganic Chemicals Certified Laboratory Report Form WOCD - Drinking Water CAS			Revise	Revised 4/13/2015
Colorado Departarent of Padits F health and Emvironment	NI 1940	Subn	nit Online at http://www	Submit Online at http://www.wqcdcompliance.com/login	E			IOC
	Section I (Supplies	Section I (Sumplied or Completed by Public Water Syst	: Water System)	Section II (Sumlie	Section II (Sumplied or Completed hy Certified I aboratory)	stified Lab	matory	
	Public	<b>Public Water System Information</b>	tion	Certifi	Certified Laboratory Information	mation	11 100 10 100	
PWSID#: CO-0121724	-0121724			Laboratory ID: CO 0015				
System Name: LFH-1	LFH-1			Laboratory Name: Colorado Analytical Laboratory	alytical Laboratory			
Contact Person	Contact Person: Mark Volle		Phone #:	Contact Person: Customer Service	Phone:	303-659-2313	313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
			Section III (Supplied or Compl	(Supplied or Completed by Public Water System)				
Sample Date: 2/16/17		lector: Stephanie Schwe	Collector: Stephanie Schwe Facility ID (On Schedule):	Sample F	Sample Pt ID (On Schedule):			
Tak Daries			tion IV Inorganic Chemicals (C	Section IV Inorganic Chemicals (Completed by Certified Laboratory)				
Date	t an Analysis Date	Lao Sampie II)	Analyte Name	CAS No	Analytical Method	MCL.	Lab MRL.	Result
2/17/17	2/22/17	170217005-01A	Antimony	7740-36-0	or	0.006	0.001	BD1.
2/17/17	2/22/17	170217005-01A	Arsenic	7440-38-2	EPA 200.8 0	0.01	0.001	0.002
2/1/1/2	2/22/17	170217005-01A	Barium	7440-39-3	EPA 200.8	2	0.001	0.015
11/1/1/2	2/22/17	170217005-01A	Beryllium	7440-41-7	EPA 200.8 0.	0.004	0.001	BDL
21/1/1/2	2/22/17	170217005-01A	Cadmium	7440-43-9	EPA 200.8 0.	0.005	0.001	BDL
1111.172	2/22/17	170217005-01A	Chromium	7440-47-3	EPA 200.8 (	0.1	0.001	0.001
2/1/1/2	2/22/17	170217005-01A	Mercury	7439-97-6	EPA 200.8 0.	0.002	0.001	BDL
LV/LV/Z	2/22/17	170217005-01A	Nickel	7440-02-0	EPA 200.8 N	N/A	0.001	0.001
11/1.1/2	2/22/17	170217005-01A	Selenium	7782-49-2	EPA 200.8 0	0.05	0.001	BDL
11/1/17	2/24/17	170217005-01A	Sodium	7440-23-5	EPA 200.7 N	N/A	0.1	142.7
11/11/7	11/77/7	170217005-01A	Thallium	7440-28-0	EPA 200.8 0.	0.002	0.001	BDL

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

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







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

### Stuart Nielson Colorado Analytical Laboratories, Inc.

L	ab Sam	ple ID	B16917-001	· ·				
Custom	er Sam	iple ID	170217005-	<b>01 - Lfh-1</b> - F	WSID: CO	0121724 - LFH-1		
				sampled or	n 02/16/17 (	@ 0906 by Stephanie Sch	wenke	
				Precision*	Detection		Analysis	
Parameter		Code	Result	+/-	Limit	Method	Date / Time	Analyst
<b>Gross Alpha</b>	1.4	Т	0.0	0.0	1.5	SM 7110 B	3/2/17 @ 0840	LD
	pCl/L	Т	0.0	2.1	2.2	SM 7110 B	3/2/17 @ 0840	LD
Radium-226	pCI/L	Т	0.0	0.2	0.1	SM 7500-Ra B	3/3/17 @ 0825	LD
	pCi/L	Т	0.0	0.8	0.8	EPA Ra-05	3/14/17 @ 1257	JR
Radon	pCi/L	Т	345	25	13.9	SM 7500-Rn B	2/17/17 @ 1500	AN

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; NJ CO008; NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

\*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

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

			Radionuclide	s Certifie	d Laboratory	Radionuclides Certified Laboratory Report Form			Revision	Revision 6/13/2014
			M	QCD - Dri	WQCD - Drinking Water CAS	CAS				(
Colorado Department		43	00 Cherry Cre	ek Drive S	South; Denver	4300 Cherry Creek Drive South; Denver, CO 80246-1530			02	SAD
of Public Health		ł	Fax: (303) 758-	-1398; cdp	he.drinkingw	(303) 758-1398; cdphe.drinkingwater@state.co.us				
		Section I (Supplied or Completed by Public	sblic Water System)	(iii		Section II (Supplied or Completed by Certified Laboratory)	ed or Completed	by Certified 1	Laboratory)	
		Public Water System Information				Certified L	<b>Certified Laboratory Information</b>	nation		
PWS ID: C00121724	21724				Laboratory ID: CO 00008	00008				
System Name: Lfh-1	L.Ab-1				Laboratory Name:	Laboratory Name: Hazen Research, Inc.				
Contact Person:			Phone #:		Contact Person: Jessica Axen	ssica Axen		Phone #: 303-279-4501	-279-4501	
Comments:			Do Samples Need to be	4	Comments:					
			Composited <u>BY THE LAB?</u>							·
			Section I	II (Supplied	or Completed by	Section III (Supplied or Completed by Public Water System)				
Sample Date: 02/16/2017	02/16/2017	Collector: Stephanie Schwenke Facility ID (On Schedule):	Facility ID (On	Schedule):	Sam	Sample Pt ID (On Schedule):				
			Section IV Radi	onuclides (Su	applied or Comple	Section IV Radionuclides (Supplied or Completed by Certified Laboratory)	lory)			
Lab Receipt Date	Lab Receipt Lab Analysis Date Date	s Lab Sample ID	Analy	Analyte Name (Code)	ode)	CAS No.	Analytical Method	MCL	Lab MRL	Result
610021/00	03/02/2017	B16017-001	Gross Alpha Including Uranium (4002)	acluding Ura	anium (4002)	12587-46-1	SM 7110 B	N/A	1.5	0.0(±0.0)
110711100			Combin	Combined Uranium (4006)	(900+)	7440-61-1	D2907-97	30 ug/L		
02/17/2017	03/03/2017	B16917-001	Radi	Radium -226 (4020)	20)	13982-63-3	SM 7500-Ra B	N/A	0.1	0.0(±0.2)
02/17/2017	03/14/2017	B16917-001	Radi	Radium -228 (4030)	30)	15262-20-1	EPA Ra-05	N/A	0.8	0.0(±0.8)
02/17/2017	03/02/2017	B16917-001	Gro	Gross Beta (4100)	(0)	12587-47-2	SM 7110 B	50 pCi/L*	2.2	0.0(±2.1)
			Total Dis	Total Dissolved Solids (1930)	ls (1930)		EPA 160.3	N/A		
*The MCL ft	or Gross Beta	*The MCL for Gross Beta Particle Activity is 4 mrem/year. Si	Ir. Since there is	no simple co	onversion betwee	nce there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.	EPA considers 2	50 pCi/L to b	be the level	of concern.
			Section V (	Section V Calculated Values	alues					
		N/N	Gross Alpha Excluding Uranium (4000)	xcluding Un	anium (4000)	Calculated Value	alue	15 pCi/L	N/A	
		14 F.F.	Combined Radium {-226 & -228} (4010)	ium {-226 &	:-228} (4010)	Calculated Value	alue	5 pCi/L	N/A	
Z	NT: Not Tested					ug/L: Micrograms per Liter	as per Liter			5
L.	ib MRL: Labo	Lab MRL: Laboratory Minimum Reporting Level				pCi/L: Picocuries per Liter	s per Liter			
BI	DL: Below La	BDL: Below Laboratory MRL. A less than sign (<)	n (<) may also be used	e used		MCL: Maximum Contaminant Level	Contaminant L	evel		

MCL: Maximum Contaminant Level

Drinking	
Water	
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	Construction of the second of the second sec		
Report To Information	Bill To Information (if different from report to)	State Form / Project Information	Colorado Analytical
Company Name: <u>Colorado Analytical</u>	Company Name: Same As Report To	PWSID: C00121724	Brighton Lab
Contact Name: Stuart Nielson	Contact Name:	System Name: Lfn-1	240 South Main Street Brighton, CO 80601
Address: <u>240 S. Main St.</u>	Address:	System Address: Ne 1/4 Nw 1/4 S27	Lakewood Lab 12860 W. Cedar Dr. Suite 101
City: Brighton State: CO Zip: 80601	City: State: Zip:	T125 R65w 6th Pm City: Colorado Spgs State: CO Zip: 80908	Lakewood CO 80228
Phone:303-659-2313 Fax:303-659-2315	Phone: Fax:	County: El Paso	Phone: 303-659-2313 Fax: 303-659-2315
Email: stuartnielson@coloradolab.com	Email:	Compliance Samples: Yes 🕅 No 🗌	www.coloradolab.com
Sampler Name: Stephanie Schwenke	PO No.:	Send Forms to State: Yes 🗌 No 🕅	
	PHASE I, I	PHASE I, II, V Drinking Water Analyses (check analysis)	nalysis) Subcontract Analyses

4	Relinquished By:	1.8	-	Instruct						02/16/17	Date		Task	
	shed By:			ions:Pleas					LF	0906	Time		Task Number	
l	4			e print on s					Mas		Client S			
011	Date/Time:			Instructions: Please print on state forms but do not submit to CDPHE. Thanks!					BOTTLES	170217005-01 LFH-1	Client Sample ID / EP Code			
2	6 Rec			do not sub				1	S		IP Code			
	Received By:			mit to C						6	No. o	f Containers		
				DPHE. Th							(mg/l	ual Chlorino _) iamples Only		
				anks!							Tota	Coliform P/	Ά	
											504.	EDB/DBCI	<b>P</b>	
	Date/Time:										505	Pests/PCBs		
	Time										515.4	4 Herbicides		PH
											524.2	2 VOCs		PHASE I, II, V Drinking
		Deli		C/S Info:							525.2	2 SOCs-Pest		I, E
	Reli	Delivered Via:		Info;							531.	I Carbamates	;	LV.
	Relinquished By:	Via:									547 (	Glyphosate		Dria
	hed H	F	5								548.	I Endothall		king
	ly:	<b>X3</b> 7	F								549.2	2 Diquat		
		S	tage								52.4.2	2 TTHMs		uter .
			Ç								552.2	2 HAA5s		Anal
	Date	C/S Charge									Lead	/Copper		lyses
	Date/Time:	narge		i							Nitra	te		
	R		$\cap$								Nitri	te		eck a
		Temp.	10	Scal							Fluo	ride		Water Analyses (check analysis)
	RER		R	Seals Present	þ						Inorg	ganics		(sis
		°C /Ice	6		Ċ						Alk./	Lang. Index		
		• 8	7	Yes 🛛							TOC	, DOC (Circl	e)	
	М	Samp	4	No							SUVA	, UV 254 (Circle	e)	
	0		3	포										70
	2	is. Ye	۲	Headspace						$\boxtimes$	Gros	s Alpha/Beta		Sabe
	Date/Time:	Sample Pres. Yes 🔲 No 🗌	#	ace Yes						$\boxtimes$	Radi	um 226		Subcontract Analyses
	e/Tim	5	HAZE		₥					$\boxtimes$	Radi	um 228		let A
	Date/Time: 43		12	No No	6					$\boxtimes$	Rado	n		nalyz
	0.8.		L	7							Uran	ium		Ē

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

TASK NO: 170217005

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170217005 Client PO: Client Project: LFH-1 CO-0121724

Date Received: 2/17/17 Date Reported: 3/6/17 Matrix: Water - Drinking

Customer Sample ID LFH-1 Sample Date/Time: 2/16/17 Lab Number: 170217005-01

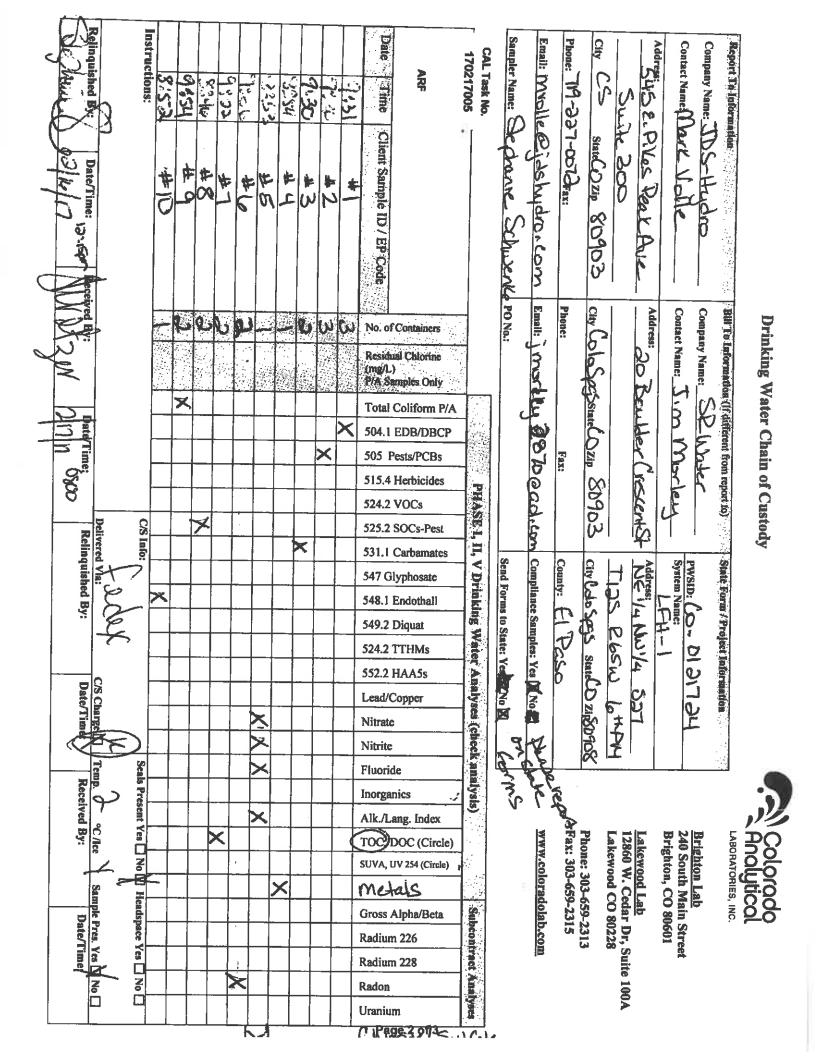
Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	155.5 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Calcium as CaCO3	6.3 mg/L	SM 3111-B	0.1	2/24/17	MBN
Carbonate	4.0 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Langelier Index	-0.43 units	SM 2330-B		2/24/17	SAN
pH	8.44 units	SM 4500-H-B	0.01	2/17/17	MBN
Temperature	20 °C	SM 4500-H-B	1	2/17/17	MBN
Total Alkalinity	159.5 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Total Dissolved Solids	456 mg/L	SM 2540-C	5	2/23/17	ISG

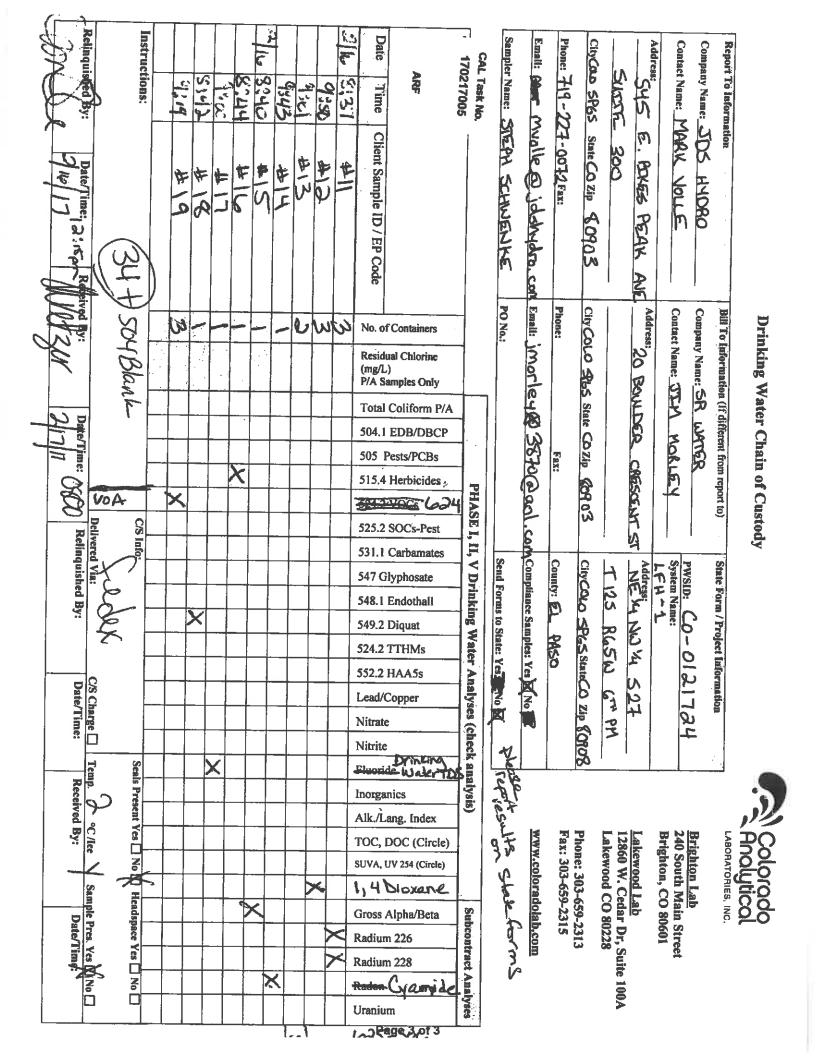
Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 1 of 3

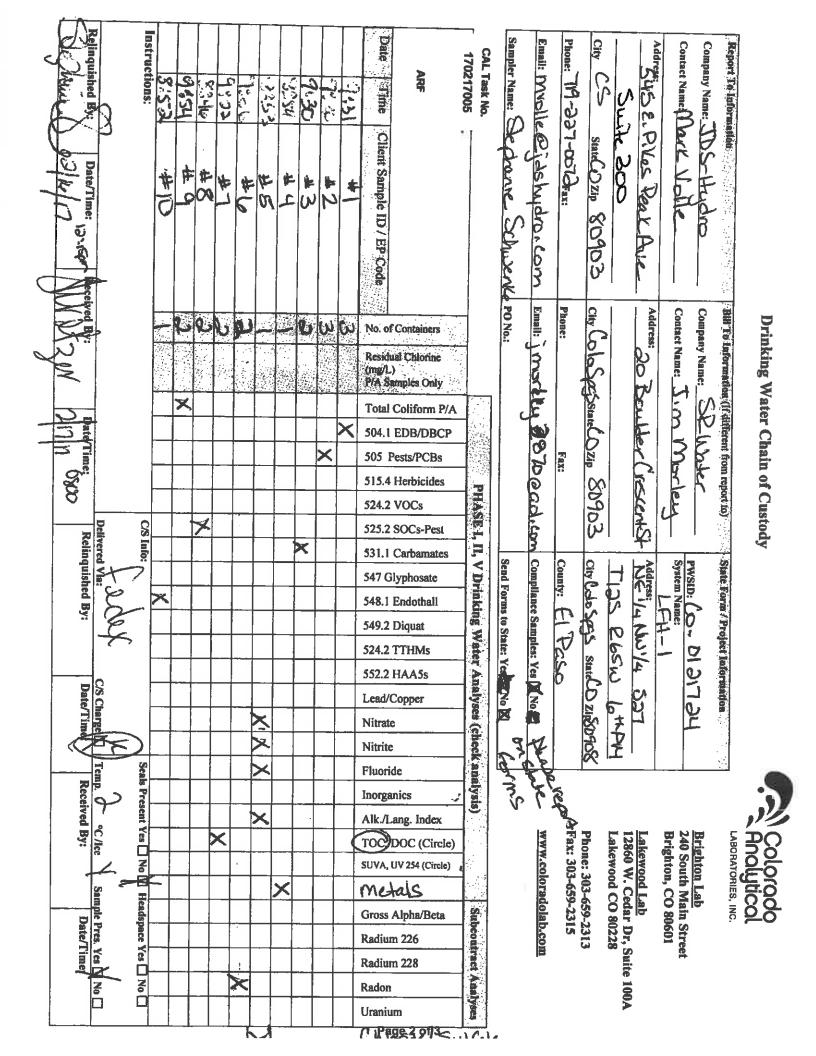


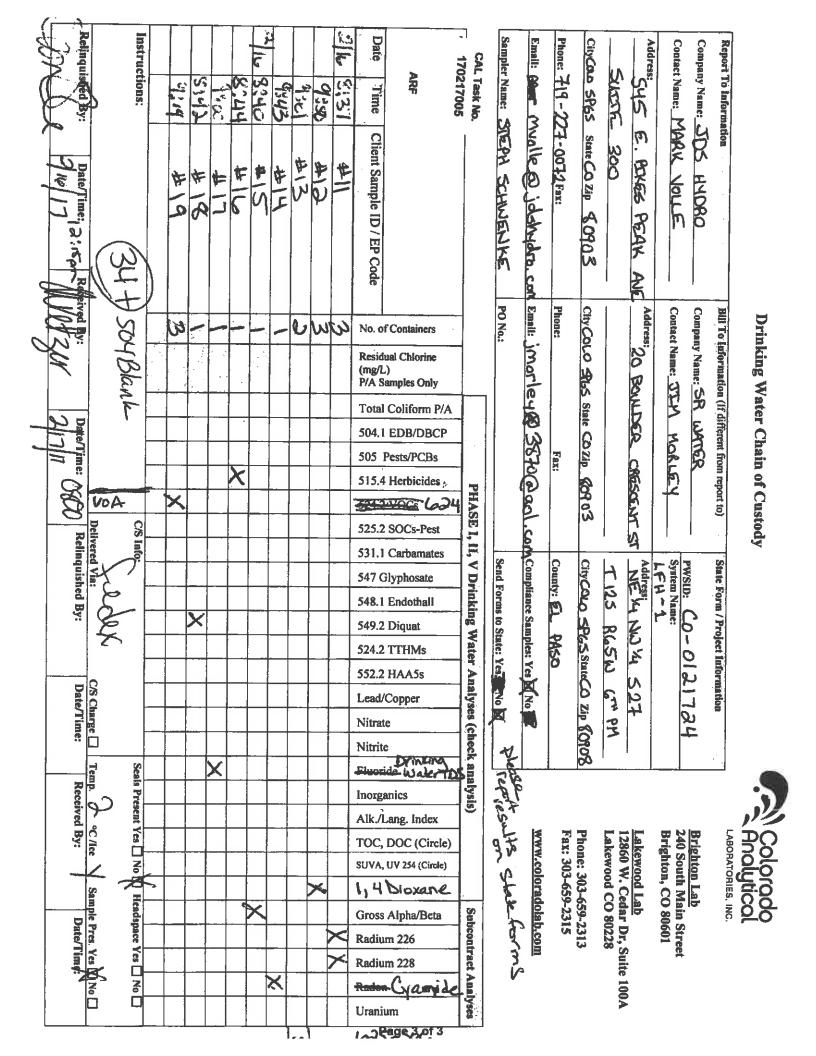


Collarado Departorent of Pedite (fealth and Eavieonment	Nitrate and Nitrite Submit Onlin	Vitrite as N WQC Online at 1	Vitrogen C JD - Drink http://www	e as Nitrogen Certified Laboral WQCD - Drinking Water CAS ie at http://www.wqcdcomplian	e as Nitrogen Certified Laboratory Report Form WQCD - Drinking Water CAS ie at http://www.wqcdcompliance.com/login	port Form /login			Revised	Revised 4/13/2015 NOX
Section I (Sumplied or Completed by Public Water System)	ad by Public Wa	ter System)			Section II (Su	Section II (Supplied or Completed by Certified Laboratory)	pleted by Cer	tified Laho	natorvì	
Public Water System Information	m Information					Certified Laboratory Information	atory Inform	nation		
PWSID#: CO-0121724				Laborator	Laboratory ID: CO 0015					
System Name: LFH-1				Laborator	Laboratory Name: Colorado Analytical Laboratory	do Analytical Li	aboratory			
Contact Person: Mark Volle	Ph	Phone #: 719-;	719-227-0072	Contact P	Contact Person: Customer Service	Service	Phone: 3	Phone: 303-659-2313	13	
Comments:				Comments:	rs:					
Section III (Supplied or Completed by Public Water System)	ublic Water Syst	cm)		Secti	Section IV (Supplied or Completed by Certified Laboratory)	or Completed b	y Certified L	aboratory)		
Sample Collector Facility ID On Schedule Date	Sample Pt ID 0 On Schedule	Confirmation?	Lab Receipt Date	Lab Analysis Date	I aboratory Sample ID #	Analyte	Analytical Method	MCL (mg/L)	Lab MRL. (mg/L)	Result (me/L)
2/16/17 cphanic Schwenk			2/17/17	2/17/17	170217005-01	Nitrate Nitrogen	EPA 300.0	10	0.1	BDL
2/16/17 cephanie Schwenk			2/17/17	2/17/17	170217005-01	Nitrite Nitrogen	EPA 300.0	-	0.1	BDL

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

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





Contract Person: Mark Volle Contact Person: Mark Volle Contact Person: Mark Volle Comments:	An Submit Online at An Submit Online at An Submit Online at Section I (Supplied or Completed by Public Water System Information -0121724 -0121724 -121	Submit Online at http://www.wqcdcompliance.com/login	wardannianee com/loc	tin		<b>UOS/JOA</b>	
Supplied or C Public Wate offe	ompleted by Public r System Informa		with the second s				200
Volle		Water System)	Section JI (Suppl	Section JI (Supplied or Completed by Certified Laboratory) Contified I aboratory Information	by Certified I	aboratory)	
Voile			Laboratory ID: CO 00063				
Volle			Laboratory Name: Colorado Analytical Laboratory	Analytical Laborato	, ki		
		Phone #: 719-227-0072	Contact Person: Customer Service		Phone: 303-659-2313	-2313	
		Do Samples Need to be Composited BY THE LAB?	Comments:				
		Section V (Supplied or Cornol	(Supplied or Commleted by Public Water System)				
Collector	tor: Stephanie Schwenk Facil	wenk Facility ID (On Schedule):	Sample	Sample Pt ID (On Schedule):			
	Section VJ Syr	nthetic Organic Chemicals (Sup	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	(Laboratory)			
sis	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (up/L)	Lab MRL (ue/L)	Result (ue/L.)
	170217005-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
	170217005-01G	2,4,-D	94-75-7	EPA 515.4	70	0.1	BDL
	170217005-01G	2,4.5-TP	93-72-1	EPA 515.4	50	0.2	BDL
	170217005-01H	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL.
1 1/2/2	110-500/12/1	Aldicarb	116-06-3	EPA 531.1	N/A	9.6	BDL
╞	170217005-011	Aldicarh sufforide	1040-00-1	EDA 521 1	A/N		BDL
	1110-500212021	Atrazine	1912-24-9	EPA 525.2	NA 3	0.1	BDL
2/23/17 17	170217005-01H	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
	170217005-011	Carbofuran	1563-66-2	EPA 531.1	40	0.9	BDL
	170217005-01F	Chlordane	57-74-9	EPA 505	2	0.2	BDI,
+	170217005-01G	Dalapon	75-99-0	EPA 515.4	200	1	BDL
	170217005-0111	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	0.6	BDL
+	170217005-01H	Di(2-cthyfhexyl)phthalate	117-81-7	EPA 525.2	و	0.6	BDI.
+	170217005-01G	Dinosch	85-85-7	FPA 515.4	7	0.2	BDL
+	1/021/005-01K	Diquat	85-00-7	FPA 549.2	20	0.4	BDL
+	170217005-01J	Endothall	145-73-3	FPA 548.1	100	6	BDL
+	-110-C00/ 170/ 1	Endin	72-20-8	EPA 505	2	0.01	BDL
+	170217005-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDI,
	170217005-01H	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
2/24/17 1	170217005-01F	Heptachlor epoxide	1024-57-3	IEPA 505	0.2	0.02	BDL

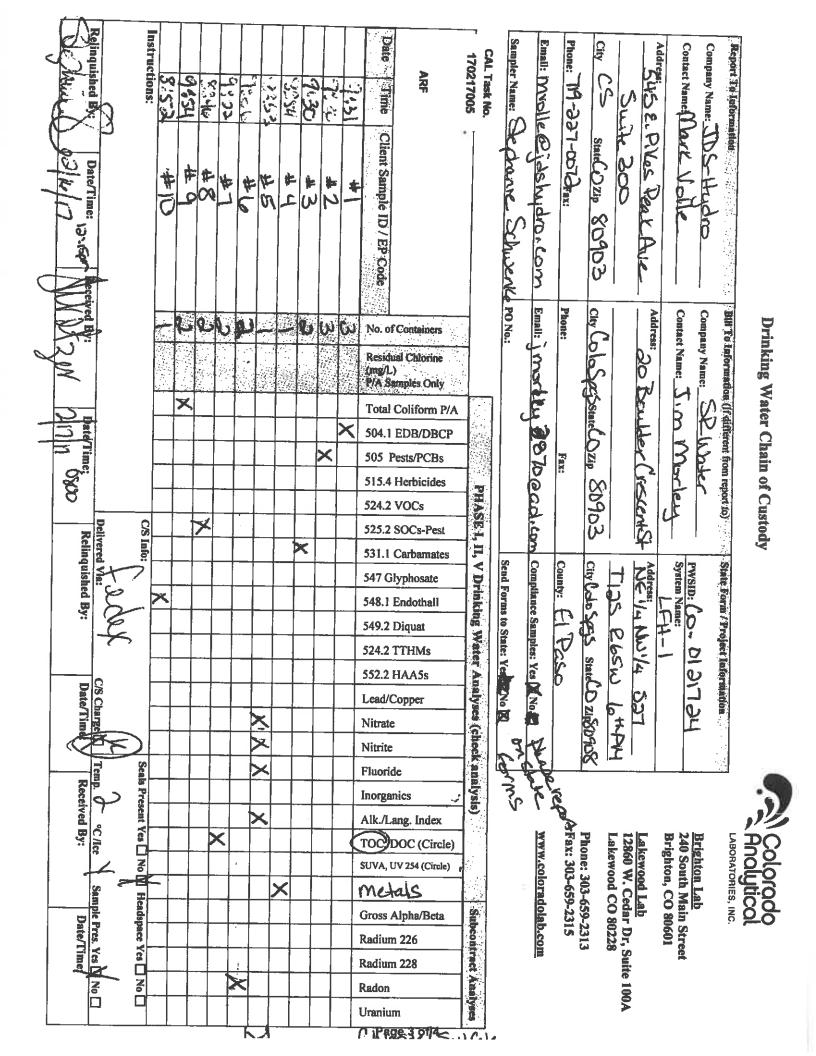
Page 1 of 4

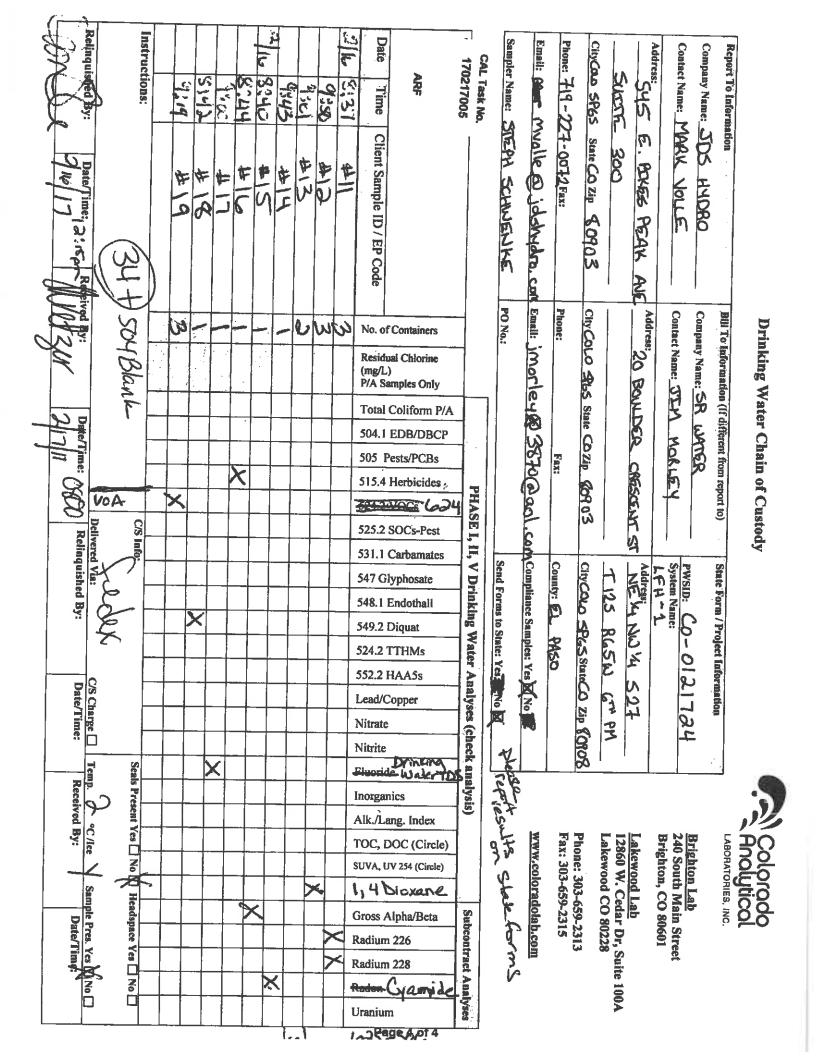
			Result	('T/8n)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDI.	BDI,
			-	-										
			Lab MRL	(rt/gn)	0.1	0.1	0.02	0.1	-	0.04	0.1	0.1	0.07	-
			MCL	('1/3m)	1	50	0.2	40	200	-	500	0.5	4	3
	Sample Pt ID (On Schedule):	aboratory)	Analytical	Method	EPA 505	EPA 505	EPA 505	EPA 505	I:PA 531.1	EPA 515.4	EPA 515.4	FPA 505	EPA 525.2	EPA 505
olic Water System)	Sample Pt	ompleted by Certified L	CAS No.		1 18-74-1	77-47-4	58-89-9	72-43-5	23135-22-0	87-86-5	1918-02-1	1336-36-3	122-34-9	8001-35-2
Section V (Supplied or Completed by Public Water System)	chwenk Facility ID (On Schedule):	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	Analyte Name		Hexachlorobenzene	Hexachlorocyclopentadiene	Lindane	Methoxychlor	Oxamyl	Pentachlorophenol	Picloram	Polychlorinated hiphenyl's	Simazine	Toxaphene
	Collector: Stephanie Schwenk Facil	Section VI S	Lab Sample ID		170217005-01F	170217005-01F	170217005-01F	170217005-01F	170217005-011	170217005-01G	170217005-01G	170217005-01F	170217005-01H	170217005-01F
21724	16/17	and the second se	Lah Analysis	Date	2/24/17	2/24/17	2/24/17	2/24/17	3/2/17	3/1/17	3/1/17	2/24/17	2/23/17	2/24/17
PWSID#: CO-0121724	Sample Date: 2/16/17		Lab Receipt	Date	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17

NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also he used.

170217005-01

212. 3/8/17







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

# **Analytical Results**

TASK NO: 170217005

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170217005 Client PO: Client Project: LFH-1 CO-0121724

Date Received: 2/17/17 Date Reported: 3/6/17 Matrix: Water - Drinking

Customer Sample ID	LFH-1
Sample Date/Time:	2/16/17

Lab Number: 170217005-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	5.8 mg/L	EPA 300.0	0.1 mg/L	2/17/17	ШG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	2/24/17	VDB
E-Coli	< 1 mpn/100ml	Colilert	1 mpn/100ml	2/18/17	VDB
Sulfate	142.1 mg/L	EPA 300.0	0.1 mg/L	2/17/17	ЦG
Total Coliform	93 mpn/100ml	Colliert	1 mpn/100ml	2/18/17	VDB
Total Organic Carbon	0.8 mg/L	SM 5310-C	0.5 mg/L	2/23/17	ISG
Turbidity	2.49 NTU	SM 2130-B	0.01 NTU	2/17/17	MBN
<u>Total</u>					
Aluminum	0.053 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD
Calcium	2.5 mg/L	EPA 200.7	0.1 mg/L	2/22/17	MBN
Соррег	0.0026 mg/L	EPA 200.8	0.0008 mg/L	2/22/17	TCD
iron	0.602 mg/L	EPA 200.7	0.005 mg/L	2/24/17	MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001 mg/L	2/22/17	TCD
Magnesium	0.39 mg/L	EPA 200.7	0.02 mg/L	2/22/17	MBN
Manganese	0.0259 mg/L	EPA 200.8	0.0008 mg/L	2/22/17	TCD
Potassium	1.6 mg/L	EPA 200.7	0.1 mg/L	2/22/17	MBN
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	2/22/17	TCD
Strontium	0.037 mg/L	EPA 200.8	0.005 mg/L	2/22/17	TCD
Total Hardness	7.7 mg/L as CaCO3	SM 2340-B	0.1 mg/L as CaCO3	2/24/17	MBN
Uranium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	2/22/17	TCD
Zinc	0.004 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD

#### Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 1 of 4



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

# **Analytical Results**

TASK NO: 170217005

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170217005 Client PO: Client Project: LFH-1 CO-0121724			Date Received: 2/17/17 Date Reported: 3/6/17 Matrix: Water - Drinking							
Sample Date/Time:	LFH-1 2/16/17 170217005-01									
Test	Result		Method	ML.	Date Analyzed	Analyzed By				
<u>Total</u> Zinc	0.00	5 mg/L	EPA 200.8	0.001 mg/	_ 2/22/17	TCD				

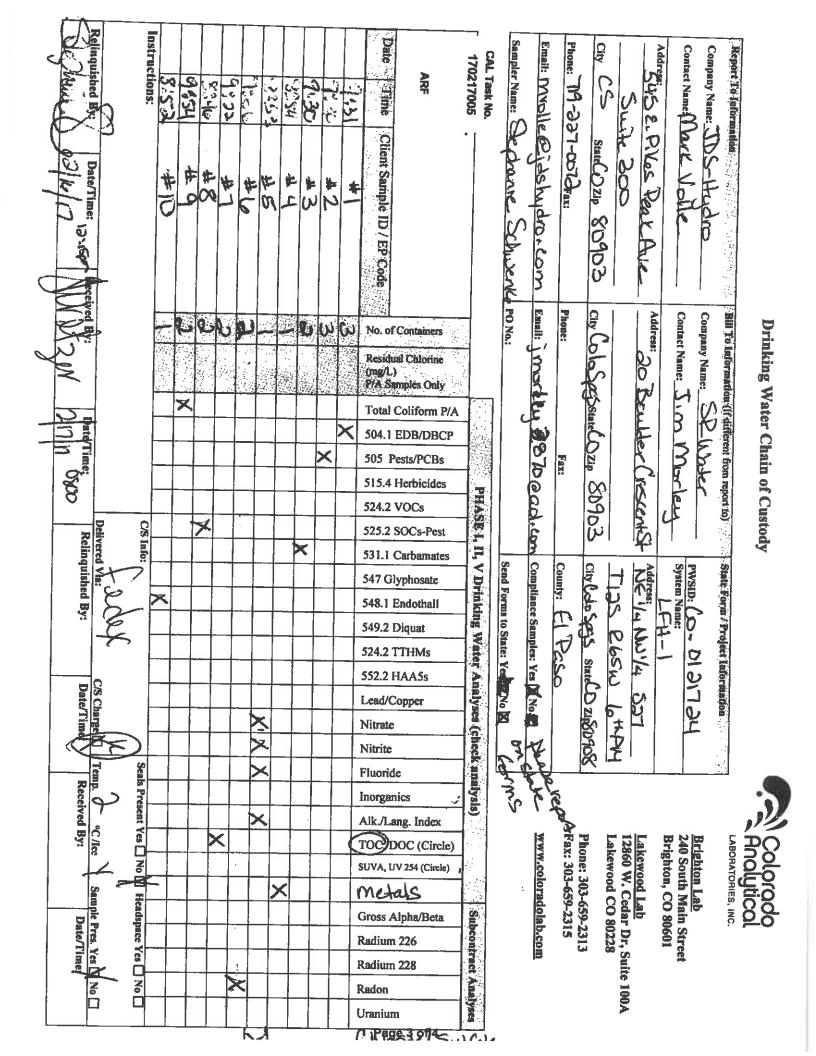
Abbreviations/ References:

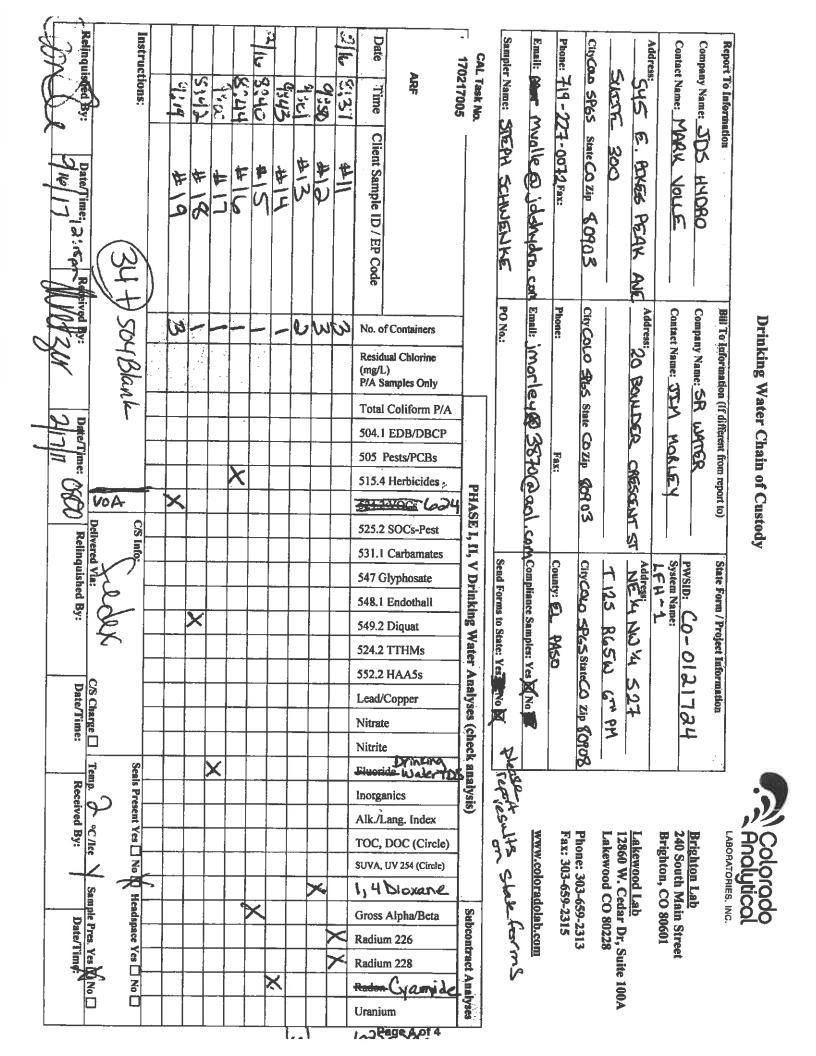
ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 2 of 4

170217005 2/2







Billings, MT 800.735.4489 • Casper, WY 888.235.0515 College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

### **ANALYTICAL SUMMARY REPORT**

March 02, 2017

Colorado Analytical Laboratories Inc PO Drawer 507 Brighton, CO 80601

Work Order: C17020566 Quote ID: C4542 - 624, 625, 1,4-Dioxane

Project Name: 170217005 LFH-1 CO-0121724

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 2/21/2017 for analysis.

Lab ID	Client Sample ID	Collect Date Re	eceive Date	Matrix	Test
C17020566-001	170217005-01 LFH-1	02/16/17 0:00	02/21/17	Drinking Water	Azeotropic Distilation Separatory Funnel Liquid-Liquid Ext. Semi-Volatile Organic Compounds 624-Purgeable Organics Volatile Compounds by Azeotropic Distillation

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

20

Digitally signed by Randy Horton Date: 2017.03.02 10:49:28 -07:00

<b>ENERGY</b>	Trust our People. Trust our Data.	Billings, MT 800.735.4489 • Casper, WY 888.235.0515
1 0413 11-6° 112 \$	www.energylab.com	College Station, TX 868.690.2218 - Gillette, WY 866.686.7175 - Helena, MT 877.472.0711
CLIENT:	Colorado Analytical Laboratories Inc	
Project:	170217005 LFH-1 CO-0121724	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.

Work Order:

C17020566



#### LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch **Client:** Colorado Analytical Laboratories Inc Report Date: 03/02/17 Project: 170217005 LFH-1 CO-0121724 Collection Date: 02/16/17 Lab ID: C17020566-001 DateReceived: 02/21/17 Client Sample ID: 170217005-01 LFH-1 Matrix: Drinking Water MCL/ Analyses **Result Units** Qualifiers RL QCL Method Analysis Date / By VOCS BY AZEOTROPIC DISTILLATION 1.4-Dioxane ND ug/L 1.0 SW8260M 02/27/17 11:16 / eli-b - Analysis by direct aqueous injection of the sample distillate. A deuterated version of 1,4-Dioxane was added to the sample prior to distillation and used to quantitate the 1.4-Dioxane and account for any variations in the analysis or distillation. VOLATILE ORGANIC COMPOUNDS Acetone ND ug/L 20 E624 02/24/17 19:19 / eli-b Acetonitrile ND ug/L 20 E624 02/24/17 19:19 / eli-b Acrolein ND ug/L 20 F624 02/24/17 19:19 / eli-b Acrylonitrile ND ug/L 20 E624 02/24/17 19:19 / eli-b Benzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Bromobenzana ND ug/L 1.0 E624 02/24/17 19:19 / ell-b Bromochloromethane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Bromodichloromethane E624 ND ug/L 1.0 02/24/17 19:19 / eli-b Bromoform ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Bromomethane ND ug/L E624 1.0 02/24/17 19:19 / eli-b Carbon disulfide ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Carbon tetrachloride ug/L ND E624 1.0 02/24/17 19:19 / eli-b Chlorobenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Chlorodibromomethane ND 1.0 ug/L E624 02/24/17 19:19 / eli-b Chloroethane ND ug/L 1.0 02/24/17 19:19 / ell-b E624 2-Chloroethyl vinvl ether ug/L ND 1.0 E624 02/24/17 19:19 / eli-b Chloroform ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Chloromethane ug/L ND 1.0 E624 02/24/17 19:19 / eli-b 2-Chlorotoluene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 4-Chlorotoluene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1.2-Dibromoethane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Dibromomethane ug/L ND 1.0 E624 02/24/17 19:19 / ell-b 1,2-Dichlorobenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1.3-Dichlorobenzene ug/L E624 ND 1.0 02/24/17 19:19 / eli-b 1.4-Dichlorobenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Dichlorodifluoromethane ug/L E624 ND 10 02/24/17 19:19 / eli-b 1.1-Dichloroethane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1.2-Dichloroethane ug/L 1.0 ND E624 02/24/17 19:19 / eli-b 1.1-Dichloroethene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b cis-1,2-Dichloroethene ND ug/L 1.0 E624 02/24/17 19:19 / ell-b trans-1,2-Dichloroethene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1,2-Dichloropropane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1,3-Dichloropropane 02/24/17 19:19 / eli-b ND ug/L 1.0 E624 2,2-Dichloropropane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1,1-Dichloropropene ND ug/L E624 1.0 02/24/17 19:19 / eli-b cis-1,3-Dichloropropene ND ug/L E624 1.0 02/24/17 19:19 / eli-b trans-1,3-Dichloropropene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Ethylbenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:Colorado Analytical Laboratories IncProject:170217005 LFH-1 CO-0121724Lab ID:C17020566-001Client Sample ID:170217005-01 LFH-1

Report Date: 03/02/17 Collection Date: 02/16/17 DateReceived: 02/21/17 Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL.	MCL/ QCL Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS	kirs	um/l		2.0	E604	02/24/17 19:19 / eli-b
Methyl tert-butyl ether (MTBE) Methyl ethyl ketone		ug/L ug/L		2.0	E624 E624	02/24/17 19:19 / eli-b 02/24/17 19:19 / eli-b
		-		20		
Methyl isobutyl ketone		ug/L		10	E624	02/24/17 19:19 / eli-b
Methylene chloride		ug/L		1.0	E624	02/24/17 19:19 / eli-b
Naphthalene		ug/L		0.50	E624	02/24/17 19:19 / eli-b
Styrene		ug/L		1.0	E624	02/24/17 19:19 / eli-b
Tetrachloroethene		ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,1,1,2-Tetrachloroethane		ug/L		1.0	E624	02/24/17 19:19 / ell-b
1,1,2,2-Tetrachloroethane		ug/L		1.0	E624	02/24/17 19:19 / ell-b
Toluene		ug/L		1.0	E624	02/24/17 19:19 / ell-b
Trichioroethene		ug/L		1.0	E624	02/24/17 19:19 / slī-b
1,1,1-Trichloroethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,1,2-Trichloroethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Trichlorofluoromethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,2,3-Trichloropropane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Vinyl Acetate	ND	ug/L		1.0	E624	02/24/17 19:19 / ell-b
Vinyl chloride	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
m+p-Xylenes		ug/L		1.0	E624	02/24/17 19:19 / eli-b
o-Xylene		ug/L		1.0	E624	02/24/17 19:19 / eli-b
Xvienes, Total		ug/L		1.0	E624	02/24/17 19:19 / eli-b
Surr: 1,2-Dichloroethane-d4		%REC		71-139	E624	02/24/17 19:19 / eli-b
Surr: p-Bromofiuorobenzene		%REC		80-127	E624	02/24/17 19:19 / eli-b
Surr: Toluene-d8		%REC		80-123	E624	02/24/17 19:19 / eli-b
SEMI-VOLATILE ORGANIC COMPOUN	IDS					
Acenaphthene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Acenaphthylene		ug/L		10	E625	02/27/17 19:27 / eli-b
Anthracene		ug/L		10	E625	02/27/17 19:27 / eli-b
Azobenzene		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 / elí-b
Benzo(a)pyrene		ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(b)fluoranthene	ND	+		10	E625	02/27/17 19:27 / eli-b
Benzo(g,h,i)perylene		ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(k)fluoranthene		ug/L		10	E625	02/27/17 19:27 / eli-b
4-Bromophenyl phenyl ether	ND	-		10	E625	02/27/17 19:27 / eli-b
Butylbenzyiphthaiate		_			E625	02/27/17 19:27 / eli-b
4-Chloro-3-methylphenoi	ND	-		10 10	E625	02/27/17 19:27 / eli-b
	ND	-				
bis(-2-chloroethoxy)Methane	ND	-		10	E625	02/27/17 19:27 / eli-b
bis(-2-chloroethyl)Ether	ND	-		10	E625	02/27/17 19:27 / eli-b
bis(2-chloroisopropyl)Ether	ND	+		10	E625	02/27/17 19:27 / eli-b
2-Chloronaphthaiene	ND			10	E625	02/27/17 19:27 / eli-b
2-Chlorophenol	ND	ug/L		10	E625	02/27/17 19:27 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality contro! limit. MCL - Maximum contaminant level.



#### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

 Client:
 Colorado Analytical Laboratories Inc

 Project:
 170217005 LFH-1 CO-0121724

 Lab ID:
 C17020566-001

 Client Sample ID:
 170217005-01 LFH-1

Report Date: 03/02/17 Collection Date: 02/16/17 DateReceived: 02/21/17 Matrix: Drinking Water

			_	-	MCL		
Analyses	Result	Units	Qualifiers	RL	QCL M	ethod	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS							
4-Chlorophenyl phenyl ether		ug/L		10	F	625	02/27/17 19:27 / eli-b
Chrysene		ug/L		10	-	825	02/27/17 19:27 / eli-b
Diethyl phthalate	ND	ug/L		10	_	625	02/27/17 19:27 / eli-b
Di-n-butyl phthalate	ND	ug/L		10		625	02/27/17 19:27 / eli-b
1.2-Dichlorobenzene	ND	ug/L		10		625	02/27/17 19:27 / eli-b
1,3-Dichlorobenzene	ND	-		10		825	02/27/17 19:27 / ell-b
1.4-Dichlorobenzene	ND	-		10		625	02/27/17 19:27 / eli-b
3,3'-Dichlorobenzidine	ND	-		10		625 625	02/27/17 19:27 / eli-b
		ug/L		10		625 625	02/27/17 19:27 / eii-b
2,4-Dichlorophenol	ND	ug/L			_		
Dimethyl phthalate	ND	ug/L		10		625	02/27/17 19:27 / eli-b
Di-n-octyl phthalate	ND	ug/L		10		625	02/27/17 19:27 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10		625	02/27/17 19:27 / eli-b
2,4-Dimethylphenol	ND	ug/L		10		625	02/27/17 19:27 / eli-b
4,6-Dinitro-2-methylphenol	ND	•		50		625	02/27/17 19:27 / eli-b
2,4-Dinitrophenol	ND	ug/L		50		325	02/27/17 19:27 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10		325	02/27/17 19:27 / ell-b
2,6-Dinitrotoluene	ND	ug/L		10	_	525	02/27/17 19:27 / eli-b
ois(2-ethylhexy/)Phthalate	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
Fluoranthene	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
Fluorene	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
Hexachlorobenzene	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
-lexachlorobutadiene	ND	ug/L		10	E	52 <del>5</del>	02/27/17 19:27 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
Hexachloroethane	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
ndeno(1,2,3-cd)pyrene	ND	-		10	E	525	02/27/17 19:27 / eli-b
sophorone	ND	ug/L		10	E	525	02/27/17 19:27 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10		525	02/27/17 19:27 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10		325	02/27/17 19:27 / eli-b
2-Nitrophenol	ND	ug/L		10		325	02/27/17 19:27 / elí-b
4-Nitrophenol	ND	ug/L		50		525	02/27/17 19:27 / eli-b
Naphthalene	ND	ug/L		10		525	02/27/17 19:27 / eli-b
Nitrobenzene	ND	ug/L		10		325	02/27/17 19:27 / eli-b
Pentachiorophenol	ND	ug/L		50		525 525	02/27/17 19:27 / eli-b
Phenanthrene		ug/L		10		525 525	02/27/17 19:27 / eli-b
Phenol		ug/L		10		625	02/27/17 19:27 / eli-b
				10		525 525	02/27/17 19:27 / eli-b
Pyrene		ug/L		10		525 525	02/27/17 19:27 / eli-b
		ug/L				920 325	
2,4,6-Trichlorophenol		ug/L		10			02/27/17 19:27 / eli-b
Surr: 2-Fluorobiphenyi		%REC		28-107		525 565	02/27/17 19:27 / eli-b
Surr: 2-Fluorophenol		%REC		20-56		625 25	02/27/17 19:27 / eli-b
Surr: Nitrobenzene-d5		%REC		32-94		625	02/27/17 19:27 / eli-b
Surr: Phenol-d5	33.0	%REC		19-45	E	625	02/27/17 19:27 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	03/02/17
Project:	170217005 LFH-1 CO-0121724	Collection Date:	02/16/17
Lab ID:	C17020566-001	DateReceived:	02/21/17
<b>Client Sample ID:</b>	170217005-01 LFH-1	Matrix:	Drinking Water

			MCLI	
Analyses	<b>Result Units</b>	Qualifiers RL	QCL Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMP	OUNDS			
Surr: Terphenyl-d14	69.0 %REC	32-122	E625	02/27/17 19:27 / eli-b
Surr: 2,4,6-Tribromophenol	60.0 %REC	21-130	E625	02/27/17 19:27 / eli-b

The sample was received past the extraction prep hold time. The prep hold time was exceeded by 4.31 days.

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit.



## **QA/QC Summary Report**

Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E624							An	alytical Run:	R275391
Lab ID:	ccv022417	Continuing Ca	libration \	erification Standa	rd				02/24	/17 09:51
Acetone		40.8	ug/L	20	82	70	130			
Acetonitrile		60.0	ug/L	20	120	70	130			
Acrolein		59.2	ug/L	20	118	70	130			
Acrylonitrile		46.4	ug/L	20	93	70	130			
Benzene		4.80	ug/L	0.50	96	70	130			
Bromobenze		4,56	ug/L	0.50	91	70	130			
Bromochloro		4.64	ug/L	0.50	93	70	130			
Bromodichlo	romethane	4.08	ug/L	0.50	62	70	130			
Bromoform		4.08	ug/L	0.50	82	70	130			
Bromometha		5.56	ug/L	0.50	111	70	130			
Carbon disu		4.80	ug/L	0.50	96	70	130			
Carbon tetra		3.70	ug/L	0.50	74	70	130			
Chiorobenze		4.60	ug/L	0.50	96	70	130			
Chiorodibron		4.32	ug/L	0.50	86	70	130			
Chloroethan		4.88	ug/L	0.50	98	70	130			_
2-Chloroethy	/I vinyl ether	3.07	ug/L	1.0	61	70	130			S
Chloroform		4.36	ug/L	0.50	87	70	130			
Chlorometha		4.60	ug/L	0.50	92	70	130			
2-Chlorotolu		4.84	ug/L	0.50	97	70	130			
4-Chiorotolu		4.80	ug/L	0.50	96	70	130			
1,2-Dibromo Dibromometi		4.40	ug/L	0.50	88	70	130			
1,2-Dichlorol		4.60 4.72	ug/L	0.50 0.50	92 94	70 70	130 130			
1,3-Dichloroi		4.84	ug/L ug/L	0.50	94 97	70	130			
1,4-Dichlorot		4.76	ug/L	0.50	97 95	70	130			
Dichlorodiflu		3.87	ug/L	0.50	77	70	130			
1,1-Dichloroe		4.40	ug/L	0.50	88	70	130			
1,2-Dichloroe		3.78	ug/L	0.50	76	70	130			
1,1-Dichioroe		4.20	ug/L	0.50	84	70	130			
cis-1,2-Dichi		4.72	ug/L	0.50	94	70	130			
trans-1,2-Dic		4.64	ug/L	0.50	93	70	130			
1,2-Dichlorop		5.20	ug/L	0.50	104	70	130			
1,3-Dichlorop	•	4.64	ug/L	0.50	93	70	130			
2,2-Dichlorop		3.92	ug/L	0.50	78	70	130			
1,1-Dichlorop	-	4.40	ug/L	0.50	88	70	130			
cis-1,3-Dichle		4.56	ug/L	0.50	91	70	130			
	hioropropene	4.04	ug/L	0.50	81	70	130			
Ethylbenzene		4.84	ug/L	0.50	97	70	130			
-	utyl ether (MTBE)	3.68	ug/L	0.50	74	70	130			
Methyl ethyl I		42.8	ug/L	20	86	70	130			
Methyl isobul		45.6	ug/L	20	91	70	130			
Methylene ch		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.



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# **QA/QC Summary Report**

Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD RPDLimit Qual
Method: E624							Analytical Run: R27539
Lab ID: ccv022417	Continuing Ca	libration Ver	ification Standa	ard			02/24/17 09:5
Styrene	4.76	ug/L	0.50	95	70	130	
Tetrachloroethene	4.60	ug/L	0.50	92	70	130	
1, 1, 1, 2-Tetrachloroethane	4.24	ug/L	0.50	85	70	130	
1, 1, 2, 2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130	
Toluene	4.96	ug/L	0.50	99	70	130	
Trichloroethene	4.80	ug/L	0.50	96	70	130	
1,1,1-Trichloroethane	3.75	ug/L	0.50	75	70	130	
1,1,2-Trichloroethane	4.76	ug/L	0.50	95	70	130	
Trichlorofluoromethane	3.34	ug/L	0.50	67	70	130	S
1,2,3-Trichloropropane	4.20	ug/L	0.50	84	70	130	
Vinyl Acetate	4.56	ug/L	1.0	91	70	130	
Vinyl chloride	4.84	ug/L	0.50	97	70	130	
m+p-Xylenes	9.76	ug/L	0.50	98	70	130	
o-Xylene	4.76	ug/L	0.50	95	70	130	
Xylenes, Total	14.5	ug/L	0.50	97	70	130	
Surr: 1,2-Dichloroethane-d4			0.50	74	71	139	
Surr: p-Bromofluorobenzene			0.50	88	80	127	
Surr: Toluene-d8			0.50	92	80	123	
Method: E624							Batch: R275391
Lab ID:  cs022417	Laboratory Co	-				A.I_170224A	02/24/17 10:31
Acetone	41.6	ug/L	20	83	55	144	
Acetonitrile	60.4	ug/L	20	121	54	142	
Acrolein	49.6	ug/L	20	99	16	233	
Acrylonitrile	46.0	ug/L	20	92	76	127	
Benzene	4.96	ug/L	0.50	99	73	122	
Bromobenzene	4.76	ug/L	0.50	95	74	129	
Bromochloromethane	4.64	ug/L	0.50	93	66	120	
Bromodichioromethane	4.44	ug/L	0.50	89	74	128	
Bromoform	4.36	ug/L	0.50	87	66	128	
Bromomethane	5.76	ug/L	0.50	115	51	123	
Carbon disulfide	4.92	ug/L	0.50	98	46	145	
Carbon tetrachloride	3.80	ug/L	0.50	76	75	125	
Chiorobenzene	4.92	u <b>g</b> /L	0.50	98	80	123	
Chlorodibromomethane	4.64	ug/L	0.50	93	74	125	
Chloroethane	5.04	ug/L	0.50	101	59	142	
2-Chloroethyl vinyl ether Chloroform	2.74	ug/L	1.0	55 88	36	144	
Chloroform	4.40	ug/L	0.50	88	68 53	124	
Chloromethane 2-Chlorotoluene	4.64	ug/L	0.50	93 101	53 75	146	
4-Chlorotoluene	5.04 4.68	ug/L	0.50 0.50	101 94	75 74	131 129	
1.2-Dibromoethane	4.66	ug/L	0.50	94 88	7 <del>4</del> 76	129	
,		ug/L					
Dibromomethane	4.76	ug/L	0.50	95	77	125	

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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## **QA/QC Summary Report**

Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R27539
Lab (D: Ics022417	Laboratory Con	trol Sample			Run: 5971/	A.I_170224A		02/24	/17 10:3
1,2-Dichlorobenzene	4.80	ug/L	0.50	96	74	124			
1,3-Dichlorobenzene	5.00	ug/L	0.50	100	77	122			
1,4-Dichlorobenzene	4.80	ug/L	0.50	96	76	126			
Dichlorodifluoromethane	4.36	ug/L	0.50	87	56	146			
1,1-Dichloroethane	4.56	ug/L	0.50	<del>9</del> 1	74	133			
1,2-Dichloroethane	3.76	ug/L	0.50	75	75	129			
1,1-Dichloroethene	4.28	ug/L	0.50	86	74	132			
cis-1,2-Dichloroethene	4.76	ug/L	0.50	95	81	122			
trans-1,2-Dichloroethene	5.08	ug/L	0.50	102	79	143			
1,2-Dichloropropane	5.20	ug/L	0.50	104	75	126			
1,3-Dichloropropane	4.32	ug/L	0.50	86	71	136			
2,2-Dichloropropane	4.00	ug/L	0.50	80	68	142			
1, 1-Dichloropropene	4.16	ug/L	0.50	83	70	131			
cis-1,3-Dichloropropene	4.12	ug/L	0.50	82	74	135			
trans-1,3-Dichloropropene	3.96	ug/L	0.50	79	76	149			
Ethylbenzene	4.92	ug/L	0.50	98	72	130			
Methyl tert-butyl ether (MTBE)	3.71	ug/L	0.50	74	72	120			
Methyl ethyl ketone	45.2	ug/L	20	90	45	130			
Methyl isobutyl ketone	49.2	ug/L	20	98	58	135			
Methylene chloride	5.64	ug/L	0.50	113	66	142			
Naphthalene	5.44	ug/L	0.50	109	69	124			
Styrene	4.84	ug/L	0.50	97	80	124			
Tetrachloroethene	4.68	ug/L	0.50	94	72	131			
1,1,1,2-Tetrachloroethane	4.16	ug/L	0.50	83	78	124			
1,1,2,2-Tetrachloroethane	4.72	ug/L	0.50	94	68	137			
Toluene	5.16	ug/L	0.50	103	72	135			
Trichloroethene	4.80	ug/L	0.50	96	85	135			
1,1,1-Trichloroethane	3.73	ug/L	0.50	30 75	63	120			
1,1,2-Trichloroethane	4.68		0.50	94					
Trichlorofluoromethane		ug/L	0.50	94 66	78	124			•
1,2,3-Trichloropropane		ug/L	0.50	81	72	120			S
Vinyl Acetate		ug/L		82	64	138			
Vinyl chloride		ug/L	1.0		31	124			
m+p-Xylenes		ug/L	0.50	102	58	140			
o-Xylene		ug/L	0.50	98	67	139			
		ug/L	0.50	97	74	135			
Xylenes, Total	14.7	ug/L	0.50	98	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	72	71	139			
Surr: p-Bromofluorobenzene			0.50	87	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: bik022417	Method Blank				Run: 5971A	.I_170224A		02/24/	17 11:30
Acetone		ug/L	20						
Acetonitrile	ND	ug/L	20						

### Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories inc

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

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

Analyte	Result	Units	RĹ	%REC Low Limit High Li	mit RPD	RPDLimit	Qual
Method: E624						Batch:	R275391
Lab ID: bik022417	Method Blank			Run: 5971A.I_17022	4A	02/24	/17 11:30
Acrolein	ND	ug/L	20	-			
Acrylonitrile	ND	ug/L	3.0				
Benzene	ND	ug/L	0.50				
Bromobenzene	ND	ug/L	0.50				
Bromochloromethane	ND	ug/L	0.50				
Bromodichloromethane	ND	ug/L	0.50				
Bromoform	ND	ug/L	0.50				
Bromomethane	ND	ug/L	0.50				
Carbon disulfide	ND	ug/L	0.50				
Carbon tetrachloride	ND	ug/L	0.50				
Chlorobenzene	ND	ug/L	0.50				
Chlorodibromomethane	ND	ug/L	0.50				
Chloroethane	ND	ug/L	0.50				
2-Chloroethyl vinyl ether	ND	ug/L	1.0				
Chieroform	ND	ug/L	0.50				
Chloromethane	ND	ug/L	0.50				
2-Chlorotoluene	ND	ug/L	0.50				
4-Chlorotoluene	ND	ug/L	0.50				
1,2-Dibromoethane	ND	ug/L	0.50				
Dibromomethane	ND	ug/L	0.50				
1,2-Dichlorobenzene	ND	ug/L	0.50				
1,3-Dichlorobenzene	ND	ug/L	0.50				
1,4-Dichlorobenzene	ND	ug/L	0.50				
Dichlorodifiuoromethane	ND	ug/L	0.50				
1,1-Dichlorcethane	ND	ug/L	0.50				
1,2-Dichloroethane	ND	ug/L	0.50				
1,1-Dichloroethene	ND	ug/L	0.50				
cis-1,2-Dichloroethene	ND	ug/L	0.50				
trans-1,2-Dichloroethene	ND	ug/L	0.50				
1,2-Dichloropropane	ND	ug/L	0.50				
1,3-Dichloropropane	ND	ug/L	0.50				
2,2-Dichloropropane	ND	ug/L	0.50				
1,1-Dichloropropene	ND	ug/L	0.50				
cis-1,3-Dichioropropene	ND	ug/L	0.30				
trans-1,3-Dichloropropene	ND	ug/L	0.30				
Ethylbenzene	ND	ug/L	0.50				
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50				
Methyl ethyl ketone	ND	ug/L	20				
Methyl isobutyl ketone	ND	ug/L	20				
Methylene chloride	ND	ug/L	0.50				
Naphthalene	ND	ug/L	0.50				
Styrene	ND	ug/L	0.50				
Tetrachloroethene	ND	ug/L	0.50				

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc.

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

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E624								Batch:	R27539
Lab ID:	bik022417	Method Blank				Run: 5971/	A.I_170224A		02/24	/17 11:30
1,1,1,2-Tet	rachloroethane	ND	ug/L	0.50						
1, 1, 2, 2-Tet	rachloroethane	ND	ug/L	0.50						
Toluene		ND	ug/L	0.50						
Trichloroeth	hene	ND	ug/L	0.50						
1, 1, 1-Trichi	loroethane	ND	ug/L	0.50						
1,1,2-Trichi	loroethane	ND	ug/L	0.50						
Trichloroflu	oromethane	ND	ug/L	0.50						
1,2,3-Trichi	loropropane	ND	ug/L	0.50						
Vinyl Aceta	ite	ND	ug/L	1.0						
Vinyl chlorid	de	ND	ug/L	0.40						
m+p-Xylene	es	ND	ug/L	0.50						
o-Xylene		ND	ug/L	0.50						
Xylenes, To	otal	ND	ug/L	0.50						
-	-Dichloroethane-d4		•	0.50	74	71	139			
	Bromofluorobenzene			0.50	90	80	127			
Surr: Tol	uene-d8			0.50	94	80	123			
Lab ID:	b17021110-001bms	Sample Matrix	Spike			Run: 5971/	A.I_170224A		02/24	/17 20:47
Acrolein		ND	ug/L	20	0	16	233			S 1
Acrylonitrile		48.8	ug/L	20	98	76	127			
2-Chloroeth	nyi vinyi ether	3.44	ug/L	1.0	69	36	144			
	-Dichloroethane-d4		•	0.50	80	71	139			
	Iromofluorobenzene			0.50	95	80	127			
Surr: Tol	uene-d8			0.50	100	80	123			
- 1 = This is with the san	a known very reactive compour nple matrix.	nd. The recovery of	this compound was n	ormal in th	e Laborat	ory Control Sa	mple (LCS). The o	compound	appears to hav	/e reacted
Lab ID:	b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 59714	.[_170224A		02/24/	/17 21:16
Acrolein		ND	ug/L	20	0	16	233		20	S 1
Acrylonitrile	•	48.8	ug/L	20	98	76	127	0.0	20	
-	yl vinyl ether	3.66	ug/L	1.0	73	36	144	6.1	20	
	-Dichloroethane-d4		-	0.50	81	71	139			
Surr. p-B	romofluorobenzene			0.50	96	80	127			
Surr: Tol				0.50	99	80	123			
	a known very reactive compour	nd. The recovery of t	this compound was n	ormal in th	e Laborate	ory Control Sar	mple (LCS). The d	compound	appears to hav	/e reacted
	b17021110-001bms	Sample Matrix	Spike			Run: 5971A	.I_170224A		02/24/	/17 18:21
Lab ID:		40.4	ug/L	20	81	55	144			
		66.0	ug/L	20	132	54	142			
Acetone				0.50	92	73	122			
Acetone Acetonitrile		4.60	ug/L							
Acetone Acetonitrile Benzene			ug/L ug/L	0.50	92	74	129			
Acetone Acetonitrile Benzene Bromobenz	ene	4.60				74 66	129 120			
Acetone Acetonitrile Benzene Bromobenz Bromochlor	ene	4.60 4.60	ug/L	0.50	92					
Lab ID: Acetone Acetonitrile Benzene Bromobenz Bromochlor Bromodichle Bromoform	rene romethane oromethane	4.60 4.60 4.56	ug/L ug/L	0.50 0.50	92 91	66	120			

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch	: R275391
Lab ID: b17	021110-001bms	Sample Matri	k Spike			Run: 5971/	A.I_170224A		02/24	4/17 18:21
Carbon disulfide		5.12	ug/L	0.50	102	46	145			
Carbon tetrachlori	de	3.59	ug/L	0.50	72	75	125			S
Chlorobenzene		4.52	ug/L	0.50	90	80	123			
Chlorodibromome	thane	4.52	ug/L	0.50	90	74	125			
Chloroethane		5.40	ug/L	0.50	108	59	142			
Chloroform		4.68	ug/L	0.50	82	68	124			
Chloromethane		4.64	ug/L	0.50	93	53	146			
2-Chiorotoluene		4.88	ug/L	0.50	98	75	131			
4-Chlorotoluene		4.68	ug/L	0.50	94	74	129			
1,2-Dibromoethan	e	4.16	ug/L	0.50	83	76	124			
Dibromomethane		4.64	ug/L	0.50	93	77	125			
1,2-Dichlorobenze	ne	4.64	ug/L	0,50	93	74	124			
1,3-Dichlorobenze	ne	4.88	ug/L	0.50	98	77	122			
1,4-Dichlorobenze	ne	4.76	ug/L	0.50	91	76	126			
Dichlorodifluorome	ethane	4.32	ug/L	0.50	86	56	146			
1,1-Dichloroethan	8	4.24	ug/L	0.50	85	74	133			
1,2-Dichloroethan	9	3.48	ug/L	0.50	70	75	129			S
1,1-Dichloroethen	9	4.12	ug/L	0.50	82	74	132			
cis-1,2-Dichloroeth	iene	4.48	ug/L	0.50	90	81	122			
trans-1,2-Dichloro	ethene	4.64	ug/L	0.50	93	79	143			
1,2-Dichloropropa	ne	4.92	ug/L	0.50	98	75	126			
1,3-Dichloropropa	ne	4.24	ug/L	0.50	85	71	136			
2,2-Dichloropropa	ne	3.60	ug/L	0.50	72	68	142			
1,1-Dichloroproper	ne	4.04	ug/L	0.50	81	70	131			
cis-1,3-Dichloropro		4.08	ug/L	0.50	82	74	135			
trans-1,3-Dichlorop	propene	3.97	ug/L	0.50	79	76	149			
Ethylbenzene		4.64	ug/L	0.50	93	72	130			
Methyl tert-butyl et	her (MTBE)	3.63	ug/L	0.50	73	72	120			
Methyl ethyl keton		44.4	ug/L	20	89	45	130			
Methyl isobutyl ket	one	51.2	ug/L	20	102	58	135			
Methylene chloride	ļ.	5.44	ug/L	0.50	109	66	142			
Naphthalene		4.84	ug/L	0.50	97	69	124			
Styrene		4.56	ug/L	0.50	91	80	124			
Tetrachloroethene		4.44	ug/L	0.50	89	72	131			
1,1,1,2-Tetrachlord		3.95	ug/L	0.50	79	78	124			
1,1,2,2-Tetrachloro	ethane	4.88	ug/L	0.50	98	68	137			
Toluene		4.88	ug/L	0.50	98	72	135			
Trichloroethene		4.56	ug/L	0. <del>5</del> 0	91	85	126			
1,1,1-Trichloroetha		3.51	ug/L	0.50	70	63	120			
1,1,2-Trichloroetha		4.52	ug/L	0.50	90	78	124			
Trichlorofluoromet		3.29	ug/L	0.50	66	72	120			S
1,2,3-Trichloroprop	ane	3.90	ug/L	0. <del>5</del> 0	78	64	138			
Vinyl Acetate		4.00	ug/L	1.0	80	31	124			

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R27539
Lab ID: b17021110-001bms	Sample Matrix	< Spike			Run: 5971	A.I_170224A		02/24	/17 18:21
Vinyl chloride	5.12	ug/L	0.50	102	58	140			
m+p-Xylenes	9.32	ug/L	0.50	93	67	139			
o-Xylene	4.44	ug/L	0.50	89	74	135			
Xylenes, Total	13.8	ug/L	0.50	92	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	80	71	139			
Surr: p-Bromofluorobenzene			0.50	94	80	127			
Surr: Toluene-d8			0.50	101	80	123			
Lab ID: b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 5971,	A.I_170224A		02/24	/17 18:50
Acetone	44.0	ug/L	20	88	55	144	8.5	20	
Acetonitrile	65.6	ug/L	20	131	54	142	0.6	20	
Benzene	5.04	ug/L	0.50	101	73	122	9.1	20	
Bromobenzene	4.96	ug/L	0.50	99	74	129	7.5	20	
Bromochloromethane	4.80	ug/L	0.50	96	66	120	5.1	20	
Bromodichloromethane	4.60	ug/L	0.50	92	74	128	5.4	20	
Bromoform	4.80	ug/L	0.50	96	66	128	8.7	20	
Bromomethane	6.00	ug/L	0.50	120	51	123	2.0	20	
Carbon disulfide	5.20	ug/L	0.50	104	46	145	1.6	20	
Carbon tetrachloride	3.97	ug/L	0.50	79	75	125	10	20	
Chlorobenzene	4.88	ug/L	0.50	98	80	123	7.7	20	
Chlorodibromomethane	4.76	ug/L	0.50	95	74	125	5.2	20	
Chloroethane	5.32	ug/L	0.50	106	59	142	1.5	20	
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	
2-Chlorotoluene	5.20	ug/L	0.50	104	75	131	6.3	20	
4-Chlorotoluene	5.04	ug/L	0,50	101	74	129	7.4	20	
1.2-Dibromoethane	4.52	ug/L	0.50	90	76	124	8.3	20	
Dibromomethane	4.88	ug/L	0.50	98	77	125	5.0	20	
1,2-Dichlorobenzene	5.04	ug/L	0.50	101	74	124	8.3	20	
1,3-Dichlorobenzene	5.20	ug/L	0.50	104	77	122	6.3	20	
1.4-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	
1,1-Dichloroethane	4.68	ug/L	0.50	94	74	133	9.9	20	
1,2-Dichloroethane	3.76	ug/L	0.50	75	75	129	7.8	20	
1,1-Dichloroethene	4.44	ug/L	0.50	89	74	132	7.5	20	
cis-1,2-Dichloroethene	4.88	ug/L	0.50	98	81	122	8.5	20	
trans-1,2-Dichloroethene	5.12	ug/L	0.50	102	79	143	9,8	20	
1,2-Dichloropropane	5.24	ug/L	0.50	105	75	126	6.3	20	
1,3-Dichloropropane	4.64	ug/L	0.50	93	71	136	9.0	20	
2,2-Dichloropropane	3.96	ug/L	0.50	79	68	142	9.6	20	
1,1-Dichloropropene	4.44	ug/L	0.50	89	70	131	9.4	20	
cis-1,3-Dichloropropene	4.40	ug/L	0.50	88	74	135	7.5	20	
			0.50	85	76	149	6.6	20	
trans-1,3-Dichloropropene	4.24	ug/L	0.00	00	70	143	0.0	20	

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc.

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R275391
Lab ID: b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 5971/	A.I_170224A		02/24	/17 18:50
Ethylbenzene	5.00	ug/L	0.50	100	72	130	7.5	20	
Methyl tert-butyl ether (MTBE)	3.83	ug/L	0.50	77	72	120	5.5	20	
Methyi ethyl ketone	46.0	ug/L	20	92	45	130	3.5	20	
Methyl isobutyl ketone	51.2	ug/L	20	102	58	135	0.0	20	
Methylene chloride	5.72	ug/L	0.50	114	66	142	5.0	20	
Naphthalene	5.56	ug/L	0.50	111	69	124	14	20	
Styrene	4.84	ug/L	0.50	97	80	124	6.0	20	
Tetrachloroethene	4.72	ug/L	0.50	94	72	131	6.1	20	
1,1,1,2-Tetrachloroethane	4.20	ug/L	0.50	84	78	124	6.1	20	
1,1,2,2-Tetrachloroethane	5.20	ug/L	0.50	104	68	137	6.3	20	
Toluene	5.12	ug/L	0.50	102	72	135	4.8	20	
Trichloroethene	4.80	ug/L	0.50	96	85	126	5.1	20	
1,1,1-Trichloroethane	3.94	ug/L	0.50	79	63	120	12	20	
1,1,2-Trichioroethane	4.76	ug/L	0.50	95	78	124	5.2	20	
Trichlorofluoromethane	3.36	ug/L	0.50	67	72	120	2.3	20	S
1,2,3-Trichloropropane	4.20	ug/L	0.50	84	64	138	7.4	20	
Vinyl Acetate	4.20	ug/L	1.0	84	31	124	4.9	20	
Vinyl chloride	5.08	ug/L	0.50	102	58	140	0.8	20	
m+p-Xylenes	9.92	ug/L	0.50	99	67	139	6.2	20	
o-Xylene	4.80	ug/L	0.50	96	74	135	7.8	20	
Xylenes, Total	14.7	ug/L	0.50	98	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	81	71	139			
Surr: p-Bromofluorobenzene			0.50	94	80	127			
Surr: Toluene-d8			0.50	100	80	123			

#### Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

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

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Bato	h: 107004
Lab ID:	MB-107004	Method Blank				Run: SV59	73N2.I_170227B		02/27	7/17 18:24
Acenaphthe	ane	ND	ug/L	10			_			
Acenaphthy	lene	ND	ug/L	10						
Anthracene		ND	ug/L	10						
Azobenzen	e	ND	ug/L	10						
Benzo(a)an	thracene	ND	ug/L	10						
Benzo(a)py	rene	ND	ug/L	10						
Benzo(b)flu	oranthene	ND	ug/L	10						
Benzo(g,h,i	)perylene	ND	ug/L	10						
Benzo(k)fiu	oranthene	ND	ug/L	10						
4-Bromoph	enyl phenyl ether	ND	ug/L	10						
Butylbenzyl	phthalate	ND	ug/L	10						
4-Chloro-3-	methylphenol	ND	ug/L	10						
bis(-2-chlore	ethoxy)Methane	ND	ug/L	10						
bis(-2-chlore	oethyl)Ether	ND	ug/L	10						
bis(2-chloro	isopropyi)Ether	ND	ug/L	10						
2-Chlorona	ohthalene	ND	ug/L	10						
2-Chloroph	enol	ND	ug/L	10						
4-Chlorophe	enyl phenyl ether	ND	ug/L	10						
Chrysene		ND	ug/L	10						
Diethyl phth	alate	ND	ug/L	10						
Di-n-butyl p	hthalate	ND	ug/L	10						
1,2-Dichloro	benzene	ND	ug/L	10						
1,3-Dichloro	benzene	ND	ug/L	10						
1,4-Dichlord	benzene	ND	u <b>g</b> /L	10						
3,3'-Dichlor	obenzidine	ND	ug/L	10						
2,4-Dichioro	phenol	ND	ug/L	10						
Dimethyl ph	thalate	ND	ug/L	10						
Di-n-octyl pl	nthalate	ND	ug/L	10						
Dibenzo(a,h	)anthracene	ND	ug/L	10						
2,4-Dimethy	iphenol	ND	ug/L	10						
4,6-Dinitro-2	-methylphenol	ND	ug/L	50						
2,4-Dinitrop	henol	ND	ug/L	50						
2,4-Dinitroto	luene	ND	ug/L	10						
2,6-Dinitroto		ND	ug/L	10						
bis(2-ethylh	exyl)Phthalate	ND	ug/L	10						
Fluoranthen	e	ND	ug/L	10						
Fluorene		ND	ug/L	10						
Hexachlorot		ND	ug/L	10						
Hexachlorob		ND	ug/L	10						
	cyclopentadiene	ND	ug/L	10						
Hexachioroe		ND	ug/L	10						
Indeno(1,2,3	l-cd)pyrene	ND	ug/L	10						
Isophorone		ND	ug/L	10						

#### Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

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

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

Analyte	Result I	Jnits	RL %REG	C Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batc	h: 107004
Lab ID: MB-107004	Method Blank			Run: SV59	73N2.I_170227B		02/27	7/17 18:24
n-Nitrosodimethylamine	ND u	ıg/L	10		_			
n-Nitroso-di-n-propylamine	ND t	ıg/L	10					
n-Nitrosodiphenylamine	ND i	ig/L	10					
2-Nitrophenol	ND t	ıg/L	10					
4-Nitrophenol	ND U	ıg/L ÷	50					
Naphthalene	ND u	<b>/g/</b> ∟	10					
Nitrobenzene	ND U	ıg/∟	10					
Pentachlorophenol	ND t	ıg/L i	50					
Phenanthrene	ND t	ig/L	10					
Phenol	ND t	ıg/∟	10					
Pyrene	ND u	ıg/L ʻ	10					
1,2,4-Trichlorobenzene	ND U	ıg/L ʻ	0					
2.4,6-Trichlorophenol	ND L	ig/L ·	10					
Surr: 2-Fluorobiphenyl		· ·	0 55	5 28	107			
Surr: 2-Fluorophenol			0 36	5 20	56			
Surr: Nitrobenzene-d5		1	10 58	32	94			
Surr: Phenol-d5		1	0 35	5 19	45			
Surr: Terphenyl-d14		li i	0 77	32	122			
Surr: 2,4,6-Tribromophenol		1	0 58	3 21	130			
Lab ID: LCS-107004	Laboratory Contro	ol Sample		Run: SV59	73N2.I_170227B		02/27	/17 18:55
Acenaphthene	81.2 L	i <b>g/L</b> 1	0 81	58	99			
Acenaphthylene	76.5 U	ig/L 1	0 77	57	96			
Anthracene	79.5 0	ig/L 1	0 80	60	107			
Azobenzene	79.3 u	ig/L 1	0 79	56	100			
Benzo(a)anthracene	84.1 u	ig/L 1	0 84	62	114			
Benzo(a)pyrene	80.1 u	ig/L 1	0 80	62	108			
Benzo(b)fluoranthene	88.6 u	g/L 1	0 89	48	127			
Benzo(g,h,i)perylene	81.6 u	ig/L 1	0 82	62	121			
Benzo(k)fluoranthene	79.2 u	g/L 1	0 79	55	111			
4-Bromophenyl phenyl ether	63.0 u	g/L 1	0 83	58	105			
Butylbenzylphthalate	91.6 u	g/L 1	0 92	60	113			
4-Chloro-3-methylphenol	65.7 u	g/L 1	0 66	53	92			
bls(-2-chloroethoxy)Methane	73.9 u	g/L 1	0 74	50	92			
bis(-2-chloroethyl)Ether	63.4 u	g/L 1	0 63	44	82			
bis(2-chloroisopropy!)Ether	61.2 u	g/L 1	0 61	56	87			
2-Chloronaphthalene		-	0 75		95			
2-Chlorophenol		g/L 1	0 60	47	76			
4-Chlorophenyl phenyl ether	75.8 u	g/L 1	0 76	58	99			
Chrysene	81.9 u	g/L 1	0 82	63	106			
onajoono					400			
Diethyl phthalate	78.6 u	g/L 1	0 79	58	103			
		-	0 79 0 88		103			

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625								Batc	h: 107004
Lab ID: LCS-107004	Laboratory Cor	trol 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'-Dichlorobenzídine	68.6	ug/L	10	69	51	93			
2,4-Dichlorophenol	64.7	ug/L	10	65	49	90			
Dimethyl phthalate	76.4	u <b>g</b> /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-Dimethylphenoi	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			
Fiuorene	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	ug/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	ug/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

Project: 170217005 LFH-1 CO-0121724

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Batc	h: 107004
Lab ID:	B17021688-001CMS	Sample Matrix	k Spike			Run: SV59	73N2.I_170227B		02/27	/17 20:29
Acenaphth	ylene	83.0	ug/L	10	83	57	96			
Anthracene	2	86.4	ug/L	10	86	60	107			
Azobenzen	e	84.3	ug/L	10	84	56	100			
Benzo(a)ar	nthracene	90.3	ug/L	10	90	62	114			
Benzo(a)py	/rene	80.9	ug/L	10	81	62	108			
Benzo(b)flu	Joranthene	80.4	ug/L	10	80	48	127			
Benzo(g,h,i		80.5	ug/L	10	81	62	121			
Benzo(k)flu		83.5	ug/L	10	83	55	111			
	enyl phenyl ether	80.4	ug/L	10	80	58	105			
Butylbenzy		99.7	ug/L	10	100	60	113			
-	methyiphenol	77.0	ug/L	10	77	53	92			
	oethoxy)Methane	77.3	ug/L	10	77	50	92			
-	oethyl)Ether	66.7	ug/L	10	67	44	82			
-	pisopropyi)Ether	66.6	ug/L	10	67	56	87			
2-Chlorona		79.8	ug/L	10	80	56	95			
2-Chloroph	•	64.1	ug/L	10	64	47	76			
-	enyl phenyl ether	84.5	ug/L	10	85	58	99			
Chrysene	engi priorigi e urei	85.9	ug/L	10	86	63	106			
Diethyl pht	halate	85.4	ug/L	10	85	58	103			
Di-n-butyl p		96.0	ug/L	10	96	61	110			
1,2-Dichlor		66.1	ug/L	10	66	43	81			
1,3-Dichlor		61.9	ug/L	10	62	41	79			
1,4-Dichlor		61.8	ug/L	10	62	42	79			
3,3'-Dichlor		69.1	ug/L	10	69	51	93			
2,4-Dichlor		68.4	ug/L	10	68	49	90			
Dimethyl pl	•	81.4	ug/L	10	81	58	104			
Di-n-octyl p		90.6	ug/L	10	91	56	110			
	h)anthracene	80.0	ug/L	10	80	61	111			
• •	•	69.2		10	69	45	87			
2,4-Dimethy	2-methylphenol	58.9	ug/L	50	59	45 37	105			
		56.9 54.8	ug/L	50	55	27	81			
2,4-Dinitrop		82.5	ug/L	10	83	63	110			
			ug/L				107			
2,6-Dinitrote		80.8	ug/L	10	81	60 56	108			
Fluoranther	exyl)Phthalate	92.0	ug/L	10	92	56				
	le	88.0	ug/L	10	88	63	110			
Fluorene	<b>.</b>	80.1	ug/L	10	80	60	99			
Hexachloro		82.5	ug/L	10	83	57	103			
Hexachioro		69.0	ug/L	10	69	39	83			
	cyclopentadiene	68.1	ug/L	10	68	39	91			
Hexachioro		65.6	ug/L	10	66	37	75			
-	3-cd)pyrene	82.3	ug/L	10	82	59	109			
Isophorone		71.3	ug/L	10	71	42	102			
n-Nitrosodir	methylamine	41.5	ug/L	10	41	20	45			

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit (	Qual
Method: E625								Batch:	107004
Lab ID: B17021688-	001CMS Sample Matr	ix Spike			Run: SV59	73N2.I_170227B		02/27/1	7 20:29
n-Nitroso-di-n-propylamin	e 76.9	ug/L	10	77	49	98			
n-Nitrosodiphenylamine	93.7	ug/L	10	94	61	108			
2-Nitrophenol	69.9	ug/L	10	70	51	96			
4-Nitrophenol	24.6	ug/L	50	25	15	36			
Naphthalene	76.0	ug/L	10	76	48	96			
Nitrobenzene	72.5	ug/L	10	73	51	91			
Pentachtorophenol	89.2	ug/L	50	89	53	109			
Phenanthrene	85.1	ug/L	10	85	58	104			
Phenol	36.7	ug/L	10	37	27	45			
Pyrene	89.8	ug/L	10	90	64	108			
1,2,4-Trichlorobenzene	70.9	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	67.7	ug/L	10	68	47	89			
Surr: 2-Fluorobiphenyl			10	62	28	107			
Surr: 2-Fluorophenol			10	39	20	56			
Surr: Nitrobenzene-d5			10	72	32	94			
Surr: Phenol-d5			10	35	19	45			
Surr: Terphenyl-d14			10	87	32	122			
Surr: 2,4,6-Tribromophe	enol		10	75	21	130			
Lab ID: B17021688-	003CMS Sample Matr	ix Spike			Run: SV59	73N2.I_170227B		02/27/1	7 21:3
Acenaphthene	89.8	ug/L	10	90	58	99			
Acenaphthylene	82.2	ug/L	10	82	57	96			
Anthracene	73.2	ug/L	10	73	60	107			
Azobenzene	80.2	ug/L	10	80	56	100			
Benzo(a)anthracene	85.1	ug/L	10	85	62	114			
Benzo(a)pyrene	77.0	ug/L	10	77	62	108			
Benzo(b)fluoranthene	73.3	ug/L	10	73	48	127			
Benzo(g,h,i)perviene	78.5	ug/L	10	79	62	121			
Benzo(k)fluoranthene	83.1	ug/L	10	83	55	111			
4-Bromophenyl phenyl ett	ner 78.1	ug/L	10	78	58	105			
Butylbenzylphthalate	92.9	ug/L	10	93	60	113			
4-Chioro-3-methylphenol	69.5	ug/L	10	69	53	92			
bis(-2-chloroethoxy)Metha		ug/L	10	70	50	92			
bis(-2-chloroethyl)Ether	58.4	ug/L	10	58	44	82			
bis(2-chlorolsopropyl)Ethe	F 57.7	ug/L	10	58	56	87			
2-Chloronaphthalene	77.7	ug/L	10	78	56	95			
2-Chlorophenol	56.6	ug/L	10	57	47	76			
4-Chlorophenyl phenyl eth		ug/L	10	83	58	89			
Chrysene	82.0	ug/L	10	82	63	106			
Diethyl phthalate	80.2	ug/L	10	80	<del>5</del> 8	103			
	86.9	ug/L	10	87	61	110			
Di-n-butyl phthalate	00.0	~ <del>.</del>							
Di-n-butyl phthalate 1,2-Dichlorobenzene	61.5	ug/L	10	62	43	81			

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	701 12 0	LOW LINK	High Limit	KPU	RPDLimit	Qual
Method: E625			······					Batcl	n: 107004
Lab ID: B17021688-003CMS	Sample Matro	( Spike			Run: SV59	73N2.I_170227B		02/27	/17 21:31
1,4-Dichlorobenzene	57.9	ug/L	10	58	42	79			
3,3'-Dichlorobenzidine	52.9	u <b>g</b> /L	10	53	51	93			
2,4-Dichlorophenol	61.5	ug/L	10	62	49	90			
Dimethyl phthalate	74.3	ug/L	10	74	58	104			
Di-n-octyl phthalate	82.5	ug/L	10	83	56	110			
Dibenzo(a,h)anthracene	75.9	ug/L	10	76	61	111			
2,4-Dimethylphenol	60.0	ug/L	10	60	45	87			
4,6-Dinitro-2-methylphenol	41.6	ug/L	50	42	37	105			
2,4-Dinitrophenol	30.1	ug/L	50	30	27	81			
2,4-Dinitrotoluene	86.9	ug/L	10	87	63	110			
2,6-Dinitrotoluene	75.9	ug/L	10	76	60	107			
bls(2-ethylhexyl)Phthalate	81.5	ug/L	10	82	56	108			
Fluoranthene	82.0	ug/L	10	82	63	110			
Fluorene	81.9	ug/L	10	82	60	99			
Hexachlorobenzene	75.8	ug/L	10	76	57	103			
Hexachlorobutadiene	69.3	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	69.5	ug/L	10	70	39	91			
Hexachloroethane	57.7	ug/L	10	58	37	75			
Indeno(1,2,3-cd)pyrene	73.4	ug/L	10	73	59	109			
Isophorone	68.4	ug/L	10	68	42	102			
n-Nitrosodimethylamine	27.8	ug/L	10	28	20	45			
n-Nitroso-di-n-propylamine	68.7	ug/L	10	69	49	98			
n-Nitrosodiphenylamine	84.0	ug/L	10	84	61	108			
2-Nitrophenol	61.8	ug/L	10	62	51	96			
4-Nitrophenol	27.7	ug/L	50	28	15	36			
Naphthalene	72.4	ug/L	10	72	48	96			
Narobenzene	69.7	ug/L	10	70	51	91			
Pentachlorophenol	66.8	ug/L	50	67	53	109			
Phenanthrene	79.7	ug/L	10	80	58	104			
Phenol	33.9	ug/L	10	34	27	45			
Pyrene	81.2	ug/L	10	81	64	108			
1,2,4-Trichlorobenzene	71.3	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	63.8	ug/L	10	64	47	99			
Surr: 2-Fluorobiphenyl	00.0	ag/c	10	45	28	107			
Surr: 2-Fluorophenol			10	37	20	56			
Sur: Nitrobenzene-d5			10	62	32	94			
Surr: Phenol-d5			10	31	19	45			
Surr: Terphenyl-d14			10	64	32	122			
Surr: 2,4,6-Tribromophenol			10	55	21	130			
Lab ID: MB-107004	Method Blank				Run: SV597	3N2.I_170228A		02/28/	17 12:11
Benzidine	ND	ug/L	10						

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte		Resuit L	Inits	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Batcl	h: 107004
Lab ID: Benzidine	LCS-107004	Laboratory Contro 63.4 u	bi Sample ⊧g/L	10	63	Run: SV59 10	73N2.I_170228A 100		02/28	/17 12:42
Lab ID: Benzidine	B17021688-001CMS	Sample Matrix Sp 25.8 u	oike Ig/L	20	26	Run: SV59 10	73N2.I_170228A 100		02/28	/17 14:16
Lab ID: Benzidine	B17021688-003CMS	Sample Matrix Sp 28.5 u	i <b>ke</b> g/L	20	28	Run: SV59 10	73N2.I_170228A 100		02/28	/17 15:18



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc.

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625	· · · · · · · · · · · · · · · · · · ·					· · · · · ·	Ar	alytical Run:	R275528
Lab ID: 27-Feb-17_CCV_2	Continuing Ca	libration V	erification Standa	ard				02/27	7/17 15:18
Acenaphthene	75.7	ug/L	10	101	80	120			
Acenaphthylene	75.2	ug/L	10	100	80	120			
Anthracene	78.7	ug/L	10	105	80	120			
Azobenzene	79.8	ug/L	10	106	80	120			
Benzo(a)anthracene	78.0	ug/L	10	104	80	120			
Benzo(a)pyrene	78.0	ug/L	10	104	80	120			
Benzo(b)fluoranthene	78.6	ug/L	10	105	80	120			
Benzo(g,h,i)perylene	75.3	ug/L	10	100	80	120			
Benzo(k)fluoranthene	73.2	ug/L	10	98	80	120			
4-Bromophenyl phenyl ether	74.4	ug/L	10	99	80	120			
Butylbenzylphthalate	84.4	ug/L	10	113	80	120			
4-Chloro-3-methylphenol	77.2	ug/L	10	103	80	120			
bis(-2-chloroethoxy)Methane	79.4	ug/L	10	106	80	120			
bis(-2-chloroethyi)Ether	80,8	ug/L	10	108	80	120			
bls(2-chloroisopropyl)Ether	77.8	ug/L	10	104	80	120			
2-Chloronaphthalene	70.3	ug/L	10	94	80	120			
2-Chlorophenol	80.3	ug/L	10	107	80	120			
4-Chlorophenyl phenyl ether	72.9	ug/L	10	97	80	120			
Chrysene	75.0	ug/L	10	100	80	120			
Diethyl phthalate	75.7	ug/L	10	101	80	120			
Di-n-butyl phthalate	81.6	ug/L	10	109	80	120			
1,2-Dichlorobenzene	72.7	ug/L	10	97	80	120			
1,3-Dichlorobenzene	77.8	ug/L	10	104	80	120			
1,4-Dichlorobenzene	74.9	ug/L	10	100	80	120			
3,3'-Dichlorobenzidine	75,8	ug/L	10	101	80	120			
2,4-Dichlorophenol	74.8	ug/L	10	100	80	120			
Dimethyl phthalate	75.3	ug/L	10	100	80	120			
Di-n-octyl phthalate	83.5	ug/L	10	111	80	120			
Dibenzo(a,h)anthracene	74.8	ug/L	10	100	80	120			
2,4-Dimethylphenol	73.0	ug/L	10	97	80	120			
4.6-Dinitro-2-methylphenol	71.3	ug/L	50	95	80	120			
2,4-Dinitrophenol	69.4	ug/L	50	93	80	120			
2,4-Dinitrotoluene	79.4	ug/L	10	106	80	120			
2,6-Dinitrotoluene	78.1	ug/L	10	104	80	120			
bis(2-ethylhexyl)Phthalate	84.4	ug/L	10	112	80	120			
Fluoranthene	76.0	ug/L	10	101	80	120			
Fluorene	77.8	ug/L	10	104	80	120			
Hexachlorobenzene	73.8	ug/L	10	98	80	120			
Hexachlorobutadiene	71.9	ug/L	10	96	80	120			
Hexachlorocyclopentadiene	73.1	ug/L	10	97	80	120			
Hexachloroethane	77.6	ug/L	10	103	80	120			
Indeno(1,2,3-cd)pyrene	75.6	ug/L	10	101	80	120			
Isophorone	78.1	ug/L	10	104	80	120			

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC [	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625		·····					Ar	alytical Run:	R275528
Lab ID: 27-Feb-17_CCV_2	Continuing Ca	libration Verific	ation Standa	rd				02/27	/17 15:18
n-Nitrosodimethylamine	75.3	ug/L	10	100	80	120			
n-Nitroso-di-n-propylamine	77.8	ug/L	10	104	80	120			
n-Nitrosodiphenylamine	78.9	ug/L	10	105	80	120			
2-Nitrophenol	75.8	ug/L	10	101	80	120			
4-Nitrophenol	69.6	ug/L	50	93	80	120			
Naphthalene	79.8	ug/L	10	106	80	120			
Nitrobenzene	76.8	ug/L	10	102	80	120			
Pentachiorophenol	73.3	ug/L	50	98	80	120			
Phenanthrene	74.0	ug/L	10	99	80	120			
Phenoi	79.2	ug/L	10	106	80	120			
Pyrene	75.2	ug/L	10	100	80	120			
1,2,4-Trichlorobenzene	72.8	ug/L	10	97	80	120			
2,4,6-Trichlorophenol	73.6	ug/L	10	98	80	120			
Surr: 2-Fluorobiphenyi		_	10	100	80	120			
Surr: 2-Fluorophenol			10	113	80	120			
Surr: Nitrobenzene-d5			10	105	80	120			
Surr: Phenol-d5			10	121	80	120			S
Surr: Terphenyl-d14			10	101	80	120			
Surr: 2,4,6-Tribromophenol			10	102	80	120			
Method: E625							An	alytical Run:	R275577
Lab ID: 28-Feb-17_CCV_2	Continuing Ca	libration Verific	ation Standa	rd				02/28	/17 11:39
Benzidine	89.5	ug/L	10	119	80	120			

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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# **QA/QC Summary Report**

Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW8260M							/	Analytical Rur	1: 107003
Lab ID:	CCV-107003	Continuing Cal	Ibration Verificatio	n Standa	rd					/17 08:30
1,4-Dioxane		105	ug/L	1.0	105	80	120		GEIZI	/17 00.00
Method:	SW8260M								Batch	n: 107003
Lab (D:	LCS-107003	Laboratory Cor	ntrol Sample			Run: VOA5	973A.I_170227A			/17 09:22
1,4-Dioxane		106	ug/L	1.0	106	70	130			
Lab ID:	MB-107003	Method Blank				Run: VOA5	973A.I_170227A		02/27	(17 09:44
1,4-Dioxane		ND	ug/L	1.0			-			
Lab ID:	C17020566-001BMS	Sample Matrix	Spike			Run: VOA5	973A.I_170227A		02/27/	17 11:37
1,4-Dioxane		200	ug/L	2.0	100	70	130			
Lab iD:	C17020566-001BMSD	Sample Matrix	Spike Duplicate			Run: VOA5	973A.I_170227A		02/27/	17 11:59
1,4-Dioxane		206	ug/L	2.0	103	70	130	3.0	20	



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

C17020566

# **Work Order Receipt Checklist**

# Colorado Analytical Laboratories Inc

Login completed by:	Dorian Quis		Date	Received: 2/21/2017
Reviewed by:	Kasey Vidick		Re	ceived by: dcq
Reviewed Date:	2/21/2017		Car	rier name: Ground
Shipping container/cooler in	good condition?	Yes 🗹	No 🔄	Not Present
Custody seals intact on all sh	hipping container(s)/cooler(s)?	Yes	No 🗌	Not Present
Custody seals intact on all sa	imple bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🗹	No 🛄	
Chain of custody signed whe	n relinquished and received?	Yes 🖌	No 🗌	
Chain of custody agrees with	sample labels?	Yes 🔽	No 🗌	
Samples in proper container/	bottle?	Yes 🗸	No 📋	
Sample containers intact?		Yes 🗸	No 🗌	
Sufficient sample volume for i	indicated test?	Yes 🔽	No 🗌	
All samples received within he (Exclude analyses that are co such as pH, DO, Res CI, Suit	nsidered field parameters	Yes 🗹	No 📋	
Temp Blank received in all sh	ipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temper	ature:	6.8°C Blue Ice		
Water - VOA vials have zero I	neadspace?	Yes 🗸	No 🗌	No VOA vials submitted
Water - pH acceptable upon r	eceipt?	Yes	No 📋	Not Applicable

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### **Contact and Corrective Action Comments:**

None

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Report To Information	Bill To Information (If different from report to)	Project Name	Colorado Anal Ara
Company Name: Colorado Analytical	Company Name: Same As Report To	170217005	Laboratories, inc.
Contact Name: Stuart Niclson	Contact Name:	Lfh-1 Co-0121724	Brighton Lab 240 South Main Street
Address: 240 S. Main St.	Address:	Task Number (Lab Use Only)	Brighton, CO 80601 Lakewood Lab
			12860 W. Cedar Dr. Suite 100A
ļ			87700 DO DOD MONHON
City Brighton State CO Zip80601	CityState Zip		Phone: 303-659-2313
Phone:3036592313 Fax:3036592315	Phone: Fax:		Fax: 303-659-2315
Email: stuartnicison@coloradolab.com	Email:	Disposal Date(Lab Use Only)	WWW.coloradolab.com
Sample Collector: Stephanie Schwenke	PO No.:		

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

C MONDAL					
	625 SOCs				CS Charge
	Grab or (Check One Only) Composite 624 VOC Long List				ia: Relinquished By:
	Plant Tissue Other Other Drinking Water			CIS Info	Date/Time: Reling
NAME AND ADDRESS					Received By:
and and the state of	Soll Sludge Compost	170217005-01 LFH-I		Peergy Labs	Date/Filme: 730/7 1600
	te Water	2/16/17 17/02/		Instructions. Send viz UPS to Energy Labs	3, A Relinquished By: DADAMA

v Public Water System)       Section JI (Sumplied or Completed or Completed or Completed or Completed or Completed or Completed fragmenton)         Information       Laboratory ID: CO 0015         Phone #: 719-227-0072       Laboratory Namc: Colorado Analytical Laboratory Namc: Colorado Analytical Laboratory Namc: Contract Person: Customer Service         Do Samples Need to be       Contract Person: Customer Service         Do Samples Need to be       Comments:         Section III (Supplied or Completed by Public Water System)       Section III (Supplied or Completed by Certified Laboratory)         Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Analytical Laboratory)         Analyte Name       TAB	Colorado Deparaceut		Inor 4300 Fax	Inorganic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO 80246-1530 Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us	emicals Certified Laboratory Report Form WQCD - Drinking Water CAS Creek Drive South, Denver, CO 80246-1530 58-1398; cdphe.drinkingwater@state.co.us	orm 1530 1.us		Revise	Revised 6/13/2014
Public Water System Information       04     Laboratory II       105     Laboratory N       105     Renth MD       105     Phone #: 719-227-0072       105     Contact Person       106     Samples Need to be       107     Contact Person       108     Composited BY THF LAB?       108<	Section	I (Supplied or	r Completed by Public	Water System)	Section JI (Sur	plied or Completed b	v Certified L	shoratory	
14     Laboratory ID: C0 0015       nrg Ranch MD     Laboratory Name: Colorado Analytical Labor       k Volle     Phone #: 719-227-0072     Contact Person: Customer Service       composited BY THE LAB?     Contact Person: Customer Service       Collector: Stephanie Schwe Facility ID     Section III (Supplied or Completed by Public Water System)       Section IV Inorganic Chemicals (Completed by Certified I aboratory)     Analysis       Date     Inorganic Chemicals (Completed by Certified I aboratory)       Date     17032407-01     Trantal		Public W	ater System Information	tion	Ŭ	rtified Laboratory I	nformation		
ng Ranch MD k Volle k VVolle k V	PWSID#: C0012172				Laboratory ID: CO 0015				
*k Volle       Phone #: 719-227-0072       Contact Person: Customer Service         Do Samples Need to be Composited BY THE LAB?       Do Samples Need to be Comments:       Comments:         Section III Composited BY THE LAB?       Section III (Supplied or Completed by Public Water System)       Section III (Supplied or Completed by Public Water System)         Analysis       Lab Sample ID       New Well       Sample Pt ID (On Schodule): New Well         Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Mathod       Mathod         Date       170324007-01       Fluoride       Total Aoratory)	System Name: Sterlir	ng Ranch MD			Laboratory Name: Colorado	Analytical Laborato	L.		
Do Samples Need to be Composited BY THF LAB?     Do Ruments:       Composited BY THF LAB?     Comments:       Composited BY THF LAB?     Section III (Suppled or Completed by Public Water System)       Section III (Suppled or Completed by Public Water System)       Analysis     Lab Sample P1 ID (On Schedule): New Well       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Date     Analytical       10324017     170324007-01	Contact Person: Marl	k Volle		Phone #: 719-227-0072	Contact Person: Customer 5		Phone: 303-659-2313	-2313	
Section III (Supplied or Completed by Public Water System)       Section III (Supplied or Completed by Public Water System)       Section IV ID (On Schedule): New Well     Sample P1 ID (On Schedule):       Analysis     Lab Sample ID     Analytical     Method       12ate     170324007-01     Fluoride     7681.00.0     Analytical     Method	Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
Section III (Supplied or Completed by Public Water System)       Collector: Stephanie Schwe Facility ID (On Schedule): New Well       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       b Analysis     Lab Sample ID       Date     CAS No       Analysis     Constant Construction       Analysis     Constant Constant Completed by Certified Laboratory)       Date     CAS No       Analyte Name     CAS No       Method     Cm								-	
Collector:     Stephanic Schwe     Facility ID (On Schedule):     New Well     Sample P1 ID (On Schedule):       Section IV Inorganic Chemicals (Completed by Certified Laboratory)     Section IV Inorganic Chemicals (Completed by Certified Laboratory)     Mailyical     Mailyical       Date     1324017     170324007-01     Fluoride     7681.40.4     Fluoride				Section III (Supplied or Comp	leted by Public Water System				
Section IV Inorganic Chemicals (Completed by Certified Laboratory)           Lab Sample ID         Analytical         Mathematicals         Completed by Certified Laboratory)           1 ab Analysis         Lab Sample ID         Analytical         M           1 bate         3/24/17         170324007-01         Fluoride         7691.40.4         PAN 200.0	Sample Date: 3/23/17	Collec	tor: Stephanie Schwe	Facility ID (On Schedule): ]		ole Pt ID (On Schedu	le): New Well	Vell	
Lab Analysis     Lab Sample ID     Analyse Name     CAS No.     Analysical       Date     3/24/17     170324007-01     Filuride     7681.40.4     PDA 200.0			Sec	tion IV Inorganic Chemicals (C	ompleted by Certified Labora	torv)			
3/24/17 170324007-01 Fluoride 7681-40-4 PDA 200-0		Analysis Date	Lab Sample (D	Analyte Name	CAS No.		MCL (me/l.)	Lab MRL.	Result
		1/24/17	170324007-01	Flunride	7681-49-4	EPA 300.0	4	0.09	1.22

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

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

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Analytical	LABORATORIES, INC.	Brighton Fah	240 South Main Street	Brighton, CO 80601	Lakewood Lab		Lakewood CO 80228	Frome: 303-659-2313 Fax: 303-659-2315	www.coloradolab.com			analysis) Subcontract Analyses	()	ircle)	528 526 529 724 724 724 72 72 72 72 72 72 72 72 72 72 72 72 72	A, DV A, UV A, UV Z, MU Z, MU	Alk. Alk. Cros Cros Cros Cros Cros Cros Cros Cros											Seals Present Yes No Headspace Yes No	ce Sampl	Neceived By: Date/Lime:
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	Report To Information	Company Name: JDS-14cdrc (cnxul lands)	Contact Name: Mark Volle		WISHS E. PILLERE AND	Sunt 200	City CS Star CZID & CAS	e-911.ª	Email: MVolleCidehydre, Com	Sampler Name: Konding of Muserker PO No.		CAL Task No.	170324007	Ра	ARF ARF	w Date   Time   Client Sample [D / EP Code		117 1018 22-5	C   # +10°	× 1 3	117 PC:S		1)0117	17	8177 65-8	1/ 8/12 #19	OCT beis .	Instructions:	Relinquished By Date/Time:	1:200 1:200 1:200

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PWSID#: C00121724	121724			Laboratory ID: CO 0015					
System Name:	System Name: Sterling Ranch MD	9		Laboratory Name: Colorado Analytical Laboratory	olorado Analyti	cal Laboratory			
Contact Person: Mark Volle	: Mark Volle		Phone #:	Contact Person: Customer Service	omer Service	Phot	Phone: 303-659-2313	-2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:			-		
			Section III (Supplied or Compl	(Supplied or Completed by Public Water System)	System)				
Sample Date: 3/23/17		Collector: Stephanie Schwe   Facility II		New Well	Sample Pt ID (On Schedule):	(On Schedule	c): New Well	Vell	
			Section IV Inorganic Chemicals (C	ganic Chemicals (Completed by Certified Laboratory)	Laboratory)				
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	No.	Analytical Method	MCL.	Lab MRI.	Result (mu/T)
3/24/17	3/29/17	170324007-01A	Antimony	7740-36-0	36-0	FPA 200.8	0.006	0.001	BDL
3/24/17	3/29/17	170324007-01A	Arsenic	7440-38-2		EPA 200.8	0.01	0.001	0.002
3/24/17	3/29/17	170324007-01A	Barium	7440-39-3		EPA 200.8	2	0.001	0.003
3/24/17	3/29/17	170324007-01A	Beryllium	7440-41-7		EPA 200.8	0.004	0.001	BDL
3/24/17	3/29/17	170324007-01A	Cadmium	7440-43-9		EPA 200.8	0.005	0.001	BDL
3/24/17	3/29/17	170324007-01A	Chromium	7440-47-3		EPA 200.8	0.1	0.001	BDL
3/24/17	3/29/17	170324007-01A	Mercury	7439-97-6	97-6	EPA 200.8	0.002	0.0001	BDL
3/24/17	3/29/17	170324007-01A	Nickel	7440-02-0		EPA 200.8	V/N	0.001	0.001
3/24/17	3/29/17	170324007-01A	Selenium	7782-49-2		EPA 200.8	0.05	0.001	BDL
3/24/17	3/30/17	170324007-01A	Sodium	7440-23-5		EPA 200.7	V/N	0.1	52.8
3/24/17	3/29/17	170324007-01A	l'hallium	7440-28-0		EPA 200.8	0.002	0.001	BDL

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

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

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	Report To Information	Company Name: JDS-H-dro Cerrout Hards	Contact Name:	Address: 15 E.		Phone: 119-337-007 Pax:	Email:	Sampler Name: Sechante	CAL	170			ite	3-23				Τ						Instructions: No	with the both shipment.	Relinquish	Å
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Colorado Analytical	LABORATORIES, INC. Brighton Lab 240 South Main Street	Brighton, CO 80601	12860 W. Cedar Dr, Suite 100A Lakewood CO 80228			www.coloradolab.com		Inalysis) Subcontract Analyses	(	3. Index OC (Circle 254 (Circle Dia/Beta	Fluoride Inorganic Alk./Lang Gross Alg Gross Alg Radium 2 Radium 2 Radium 2 Radium 2	×				×				Seals Present Yes 🗌 No 🗍 Headspace Yes 🗍 No 🗍	Temn. "C floe Samula Pres Vec 🗆 No 🗍	ceived By:
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Drinking Water Chai		Address:	8	S culolesap	Phone:	Email: JMDVI &	NKCPO Na:			Chlorine	Residual No. of Cc Residual Sam	-	X	n e	nc	Dictor 3	1 1	6	ar.			Received By:
	Report To Information Company Name: JDS-1-Higher Consul Hands	S. P.V.		CS state zin 80903	119-327-0073	Email: MVolle@jdshydro.com	Sampler Name: Kichenke Schusenke PO No.:	CAL Task No.	170324007	ARF	Time Client Sample ID / EP Code	8101 #11	6:mm #13		2:40 ALL	+·1)0117	キレ	814 6:8	004 beis			eid By Date/Time:
	Report To Infor Company Name: Contact Name:	CHC PA		City	Phone:	Email:	Sampler	CALTa	17032	Page 3	c o	3-23	-							Instructions:		Reinquished by



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

TASK NO: 170324007

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170324007 Client PO: Client Project: Sterling Ranch MD CO0121724

Date Received: 3/24/17 Date Reported: 4/21/17 Matrix: Water - Drinking

Customer Sample ID Sterling Ranch MD Sample Date/Time: 3/23/17 8:03 AM Lab Number: 170324007-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	99.7 mg/L as CaCO3	SM 2320-B	0.1	3/28/17	VDB
Calcium as CaCO3	2.5 mg/L	SM 3111-B	0.1	3/30/17	MBN
Carbonate	< 0.1 mg/L as CaCO3	SM 2320-B	0.1	3/28/17	VDB
Langelier Index	-1.23 units	SM 2330-B		3/31/17	LJG
pH	8.16 units	SM 4500-H-B	0.01	3/24/17	MBN
Temperature	20 °C	SM 4500-H-B	1	3/24/17	MBN
Total Alkalinity	99.7 mg/L as CaCO3	SM 2320-B	0.1	3/28/17	VDB
Total Dissolved Solids	143 mg/L	SM 2540-C	5	3/29/17	ISG

Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 1 of 3

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

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

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PWSID#: C00121724	1	A TT ALCO SYSTEM LIMULING		Laboratory ID: CO 00063	CETTURED LADOFATORY INTORMATION	Information		
System Name: S	Sterling Ranch MD	MD		Laboratory Name: Colorado /	Colorado Analytical Laboratory	ſJ		
Contact Person: Mark Volle	Mark Volle		Phone #: 719-227-0072	Contact Person: Customer Service		Phone: 303-659-2313	-2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
PWSID#: CO0121724	724		Section V (Supplied or Compl	(Supplied or Completed by Public Water System)				
Sample Date: 3/23/17	717	Collector: Stephanie Schwenk Facil	hwenk Facility ID (On Schedule):	New Well Sample	Sample Pt ID (On Schedule):	: New Well	0	
		Section VI Sy	inthetic Organic Chemicals (Sur	leted by C	I Laboratory)			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	Analytical Method	MCL (us/L)	Lab MRL (us/L)	Result (uo/1.)
3/24/17	4/3/17	170324007-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
3/24/17	3/29/17	170324007-01G	2,4D	94-75-7	EPA 515.4	70	0.1	BDL
3/24/17	3/29/17	170324007-01G	2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL
3/24/17	3/31/17	170324007-011	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb	116-06-3	EPA 531.1	N/A	0.6	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL
3/24/17	3/31/17	170324007-011	Atrazine	1912-24-9	EPA 525.2	3	0.1	BDL
3/24/17	3/31/17	170324007-011	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
3/24/17	3/31/17	170324007-011	Carbofuran	1563-66-2	EPA 531.1	40	6.0	BDL
11/4/15	3/30/17	170324007-01F	Chlordanc	57-74-9	FPA 505	7	0.2	BDL
11/1-7/5	11/67/5	11/032400/-011	Dalapon	75-99-0	EPA 515.4	200	-	BDL
111-710	11/12/2	170324007-011	Dil 2-cuny incxy i batic	103-23-1	EPA 525.2	400	9.6	BDL
2111-210	11/10/2	11/02/400/-010	LJN(2-ctrtyIncxyI)prtnalate	117-81-7	EPA 525.2	9	0.6	BDI,
11/47/2	11/67/6	010-/0020001	Diposch	85-85-7	EPA 515.4	7	0.2	BDL
114710	3/24/17	710-/0072001	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
3/24/1/	3/29/17	170324007-01K	Endothall	145-73-3	EPA 548.1	100	6	BDL
11/47/2	3/30/1/	1/032400/-015	Endrin	72-20-8	EPA 505	2	0.01	BDL
3/24/17	4/3/17	170324007-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL
3/24/1/	3/31/17	170324007-011	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
3/24/1/	3/30/17	170324007-01F	Hentachlor epoxide	1024-57-3	HPA 505	0.2	0.02	BDL
NT: Not Tested ug/L:	Micrograms per l	Liter MCL: Maximum Contamir	nant Level BDL Below Laboratory MI	NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also be used	xt.		170324007-01	N 1/2 4/21/17

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PWSID#: CO0121724	21724		Section V (Supplied or Completed	(Supplied or Completed by Public Water System)				
Sample Date: 3/23/17	23/17	Collector: Stephanie S	Stephanie Schwenk Facility ID (On Schedule):	New Well Sample	Sample Pt ID (On Schedule):	New Well		
		Section VI 5	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	d or Completed by Certified	Laboratory)			
Lab Receipt	Lab Analysis	Lab Sample ID	Analyte Name	CAS No	Analytical	MCL	Lab MRL	Result
LUate	Date				Method	("I/an)	(ng/L)	(/T/20)
3/24/17	3/30/17	170324007-01F	Hexachlorobenzene	118-74-1	EPA 505	1	0.1	RDI.
3/24/17	3/30/17	170324007-01F	Hexachlorocyclopentadiene	77-47-4	EPA 505	50	6	BUL
3/24/17	3/30/17	170324007-01F	Lindane	58-89-9	EPA 505	0.2	2010	BDL
3/24/17	3/30/17	170324007-01F	Methoxychlor	72-43-5	EPA 505	40	10	IUI
3/24/17	3/31/17	170324007-01J	Oxamyl	23135-22-0	EPA 531.1	200	-	BUI
3/24/17	3/29/17	170324007-01G	Pentachlorophenol	87-86-5	EPA 515.4	-	104	IUI
3/24/17	3/29/17	170324007-01G	Picloram	1918-02-1	EPA 515.4	500	10	IUI
3/24/17	3/30/17	170324007-01F	Polychlorinated biphenyl's	1336-36-3	EPA 505	0.5	0.1	RNL
3/24/17	3/31/17	170324007-011	Simazine	122-34-9	EPA 525.2	4	0.07	RDI.
3/24/17	3/30/17	170324007-01F	Toxaphene	8001-35-2	EPA 505	3	-	BDL

NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also be used.

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Anolytical LABORATORIES, INC.	Brighton Lab 240 South Main Stand	Brighton, CO 80601		Lakewood CO 80228	-2 Phone: 303-659-2313		www.coloradolab.com		k analysis) Subcontract Analyses	(	(Circle) (Circle) (Circle) (Circle)	וווונג חווונג חוווג רוווג חוווג חוווג חוווג חוווג חוווג חוווג חוווג חוווג חוווג חוווג חוווג ב חוווג רוווג רוווג רוווג רוווג רוווג רוווג רוווג רוווג רוווג רוווג רוווג רוווג רוווג רוווג רוווג רוווווווו								×			Seals Present Yes No C Headspace Yes No C	Temp. °C/Ice Sample Pres. Yes 🗌 No 🗍	Received By: Date/Time:
page 2 of 2	Hellei	AW	LOCK CREW		Staff ZipSUJU3	.0	Yes 🚺 No 🔲	Kes 🗆 No. 🔐	r Analyses (checl	, ,		cobbe	552.2 Lead/ Nitrate								_		_	C/S Charge	Date/Time:
Page 20	HELIE 10 07:01sma	System Name: Sker line Ronch MD	Address: Baudder Cresent		city CS s	County: El Paso	Compliance Samples: Yes 🚺 No 🗌	Send Forms to State: Yes No. W	PHASE 1, 11, V Drinking Water Analyses (check analysis)		ihall tt	ohqvi Endo upid	254°5 248°1 248°1 248°1										ioj	Delivered Via:	Relinquished By:
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tion	- F	Marte Volle	E. Pikes Park Ave	Suk 20	StatLEZIP KUTES	37-00/2	Email: M Volle Gjdshydre, com	Sampler Name: Kong ng Si husenke PO No.					Client Sample ID / EP Code	#11	61# -		オレ	#15	4 16 (1,4 Dionan	. 1-	110	Unt A		1	- ZDAn
Report To Information	Company Name:	11 I			City (`S	Phone: 719-307-0073	Email: MVol	Sampler Name:	CAL Task No.	170324007		32V	Date	3-23 8,01	6:00 cm		3:36	2:12		2.0	No. N	610 A	Instructions:	 Dalinaniahad D.	A Cherry

			Radion	uclides C	Certified I	aboratory	Radionuclides Certified Laboratory Report Form			Revision	Revision 6/13/2014
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Colocado Department		43	00 Chei	ry Creek	Drive Sou	ith; Denver	4300 Cherry Creek Drive South; Denver, CO 80246-1530				
of Public Health and Environment		μ.	Fax: (30:	3) 758-13	198; cdphe.	.drinkingwa	(303) 758-1398; cdphe.drinkingwater@state.co.us				
	Section	Section I (Supplied or Completed by Public		Water System)			Section II (Supplied or Completed by Certified Laboratory)	ed or Completed	by Certified I	aboratory)	
	4	Public Water System Information	1				Certified L	Certified Laboratory Information	nation		
PWS ID: C00121724	21724				Lab	Laboratory ID: CO 00008	00008				
System Name:	System Name: Sterling Ranch MD	Ą			Lab	oratory Name:	Laboratory Name: Hazen Research, Inc.				
Contact Person:			Phone #:		Con	Contact Person: Jessica Axen	ssica Axen		Phone #: 303-279-4501	279-4501	
Comments:			Do Samp Composi	Do Samples Need to be Composited <u>BY THE LAB?</u>		Comments:					
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Sample Date: 03/23/2017	03/23/2017	Collector:	Facility	Facility ID (On Schedule):	hedule):	Samp	Sample Pt ID (On Schedule):				
			Section	IV Radionu	sclides (Suppl	lied or Comply	Section IV Radionuclides (Supplied or Completed by Certified Laboratory)	tory)			Γ
Lab Receipt Date	Lab Analysis Date	Lab Sample ID		Analyte ?	Analyte Name (Code)		CAS No.	Analytical Method	MCL	Lab MRL	Result
03/24/2017	04/18/2017	C27017-001	Gross	Alpha Inclu	Gross Alpha Including Uranium (4002)	ım (4002)	12587-46-1	SM 7110 B	N/A.	1.5	0.0(±1.5)
				Combined 1	Combined Uranium (4006)	(90)	7440-61-1	D2907-97	30 ug/L		
03/24/2017	04/07/2017	C27017-001		Radium	Radium -226 (4020)		13982-63-3	SM 7500-Ra B	N/A	0.1	0.4(±0.3)
03/24/2017	03/30/2017	C27017-001		Radium	Radium -228 (4030)		15262-20-1	EPA Ra-05	N/A	0.6	0.2(±0.6)
03/24/2017	04/18/2017	C27017-001		Gross E	Gross Beta (4100)		12587-47-2	SM 7110 B	50 pCi/L*	2.1	0.0(±2.0)
			Ţ	otal Dissolv	Total Dissolved Solids (1930)	(930)		EPA 160.3	N/A		
*The MCL fo	r Gross Beta F	*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.	ar. Since	here is no :	simple conv	ersion betwee	in mrem/year and pCi/L	<b>EPA</b> considers 5	50 pCi/L to b	e the level o	of concern.
			Sei	tion V Calc	Section V Calculated Values	'n					
	~	N/A	Gross /	Alpha Exch	Gross Alpha Excluding Uranium (4000)	um (4000)	Calculated Value	alue	15 pCi/L	N/A	
			Combin	ed Radium	Combined Radium {-226 & -228} (4010)	28} (4010)	Calculated Value	alue	5 pCi/L	N/A	
IN	NT: Not Tested						ug/L: Micrograms per Liter	us per Liter			
La	MRL: Labor	Lab MRL: Laboratory Minimum Reporting Level	svel				pCi/L: Picocuries per Liter	s per Liter			

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

pUtL: Picocuries per Liter MCL: Maximum Contaminant Level

Drinking	
Water	
Chain	
of	
Custody	

Bill To Information (If different from report to)       State Form / Project         Company Name: same       PWSID: CO01217         Contact Name:       System Name: Sterili         Address:       System Name: Sterili         City:       State:       Zip:         City:       State:       Zip:         Phone:       Fax:       County: El Paso         Email:       Po No.:       Send Forms to State	Sampler Name:	Email: stuartnielson@coloradolab.com	Phone:303-659-2313 Fax:303-659-2315	City: Brighton State: CO Zip: 80601	Address: P.O. Box 507	Contact Name: Stuart Nielson	Company Name: Colorado Analytical Labs	Report To Information
State Form / Project Information         PWSID: CO0121724         System Name: Sterling Ranch MD         System Address:         20 Boulder Crescent         City: Colo Spgs       State: CO Zip: 8090         County: El Paso         Compliance Samples: Yes X No         Send Forms to State: Yes No	PC No.:	Email:	Phone:	- State:	Address:	Contact Name:	Company Name: same	Bill To Information (If different from report to)
	Send Forms to State: Yes V No X	Compliance Samples: Yes 🛛 No 🗌	County: El Paso	City: Colo Spgs State: CO Zip: 80903	System Address: 20 Boulder Crescent	System Name: Sterling Ranch MD	PWSID: C00121724	State Form / Project Information

ILING Colle	Relinquished By:	>	Please print results o						3/23/17 08:03	Date Time	ARF	170324007	CAL Task No.
1150	Daye/Timf: Re		Please print results on Colorado State form but do not submit to CDPHE. Thank you.						170324007 Sterling Ranch MD	Client Sample ID / EP Code			
	Received By:		submit i			 	 		6	No. c	f Containers		
	Ý:		** Combined Radium -226 & -228. abmit to CDPHE. Thank you.							(mg/l	lual Chlorine L) Samples Only		
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Colorado Analytical

<u>Brighton Lab</u> 240 South Main Street Brighton, CO 80601

Lakewood Lab 12860 W. Cedar Dr, Suite 101 Lakewood CO 80228

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

www.coloradolab.com



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

TASK NO: 170324007

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

> Facility ID: New Well Sample Point ID: New Well

Task No.: 170324007 **Client PO:** Client Project: Sterling Ranch MD CO0121724

Date Received: 3/24/17 Date Reported: 4/21/17 Matrix: Water - Drinking

Customer Sample ID Sterling Ranch MD Sample Date/Time: 3/23/17

8:03 AM Lab Number: 170324007-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	1.3 mg/L	EPA 300.0	0.1 mg/L	3/24/17	LIG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	3/28/17	VDB
E-Coli	< 1 mpn/100ml	Colliert	1 mpn/100ml	3/25/17	VDB
Sulfate	10.7 mg/L	EPA 300.0	0.1 mg/L	. 3/24/17	LJG
Total Coliform	68 mpn/100ml	Colifert	1 mpn/100ml	3/25/17	VDB
Total Organic Carbon	< 0.5 mg/L	SM 5310-C	0.5 mg/L	. 3/28/17	ISG
Turbidity	1.08 NTU	SM 2130-B	0.01 NTU	3/24/17	MBN
<u>Total</u>					
Aluminum	0.032 mg/L	EPA 200.8	0.001 mg/L	. 3/29/17	TCD
Calcium	1.0 mg/L	EPA 200.7	0.1 mg/L	. 3/29/17	MBN
Copper	< 0.0008 mg/L	EPA 200.8	0.0008 mg/L	3/29/17	TCD
iron	0.180 mg/L	EPA 200.7	0.005 mg/L	3/30/17	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001 mg/L	3/29/17	TCD
Magnesium	0.06 mg/L	EPA 200.7	0.02 mg/L	3/29/17	MBN
Manganese	0.0071 mg/L	EPA 200.8	0.0008 mg/L	3/29/17	TCD
Potassium	1.0 mg/L	EPA 200.7	0.1 mg/L	3/29/17	MBN
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	3/29/17	TCD
Strontium	0.009 mg/L	EPA 200.8	0.005 mg/L	3/29/17	TCD
Total Hardness	2.7 mg/L as CaCO3	SM 2340-B	0.1 mg/L as CaCO3	3/30/17	MBN
Uranium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	3/29/17	TCD
Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L	3/29/17	TCD

Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Microgrems Per Liter or PPB mpn/100 m/s = Most Probable Number Index/ 100 m/s Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 1 of 4



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

# **Analytical Results**

TASK NO: 170324007

Bill To: Jim Morley Company: SR Water 20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170324007 Client PO: Client Project: Sterling Ran	ch MD CO0121724		Received: 3/24/1 Reported: 4/21/1 Matrix: Water	7	
Customer Sample ID Sterli Sample Date/Time: 3/23/ Lab Number: 17032			Facility Sample Point	ID: New Well ID: New Well	
est	Result	Method	ML	Date Analyzed	Analyzed By
<u>otal</u> Zinc	0.002 mg/L	EPA 200.8	0.001 mg	/L 3/29/17	TCD

Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpr/100 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 2 of 4

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	Report To Information	Company Name: JDS-Highe Consul I tants	Contact Name:	dree	542		-	Phone:	Email: M Volle@jdshybre, com	Sampler Name: Kychenke Schusenke	CAL Task No.	1703	,	4	Date	3-23	_	-		_				1	<u> </u>	Instructions:		Belinquished
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# ANALYTICAL SUMMARY REPORT

April 06, 2017

Colorado Analytical Laboratories Inc PO Drawer 507 Brighton, CO 80601

Work Order: C17030850 Quote ID: C4542 - 624, 625, 1,4-Dioxane

Project Name: 170324007 Sterling Ranch MD

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 3/28/2017 for analysis.

Lab ID	Client Sample ID	Collect Date Re	ceive Date	Matrix	Test
C17030850-001	170324007 Sterling Ranch MD	03/23/17 8:03 0	03/28/17	Groundwater	Azeotropic Distilation Separatory Funnel Liquid-Liquid Ext. Semi-Volatile Organic Compounds 624-Purgeable Organics Volatile Compounds by Azeotropic Distillation

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Digitally signed by Randy Horton Date: 2017.04.06 16:31:29 -06:00

ENERGY CABODATORIES	Trust our People. Trust our Data. www.energylab.com	Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 886.686.7175 • Helena, MT 877.472.0711
CLIENT:	Colorado Analytical Laboratories Inc	Report Date: 04/06/17
Project:	170324007 Sterling Ranch MD	Report Date. 04/00/17
Work Order:	C17030850	CASE NARRATIVE

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

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### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Project: Lab ID: Client Sample (D:	Colorado Analytical Lab 170324007 Sterling Rar C17030850-001 170324007 Sterling Rar	ich MD	s inc				Collec	Received:	03/23/17 08:03
Analyses		Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analy	/sis Date / By
VOCS BY AZEOTR	OPIC DISTILLATION								
1,4-Dioxane		ND	ug/L		1.0		SW8260	A 04/08	6/17 09:34 / eli-b
<ul> <li>Analysis by direct a quantitate the 1,4-Direct</li> </ul>	queous injection of the sample of oxane and account for any variat	istillate. A ions in the	deuterated analysis or	version of 1,4-Dio	xane was	added to th	ie sample pi	ior to distillati	on and used to
VOLATILE ORGAN	IIC COMPOUNDS								
Acetone		ND	ug/L		20		E624	03/31	/17 16:09 / eli-b
Acetonitrile		ND	ug/L		20		E624	03/31	/17 16:09 / eli-b
Acrolein		ND	ug/L		20		E624	03/31	/17 16:09 / eli-b
Acrylonitrile		ND	ug/L		20		E624	03/31	/17 16:09 / ell-b
Benzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
Bromobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
Bromochioromethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
Fromodichloromethan	e	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
iromoform		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
romomethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
arbon disulfide		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
arbon tetrachloride		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
hlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
hlorodibromomethan	e	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
hloroethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eil-b
-Chloroethyl vinyl eth	er	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
chloroform		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
Chloromethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
-Chlorotoluene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
-Chlorotoluene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
2-Dibromoethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
libromomethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / ell-b
2-Dichlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
,3-Dichlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
4-Dichlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / ell-b
ichlorodifiuorom ethal	ne	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
1-Dichloroethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
2-Dichloroethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
1-Dichloroethene			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
s-1,2-Dichioroethene	1		ug/L		1.0		E624	03/31	/17 16:09 / eli-b
ans-1,2-Dichloroethe	ne		ug/L		1.0		E624	03/31	/17 16:09 / eli-b
2-Dichloropropane			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
3-Dichloropropane			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
,2-Dichloropropane			ug/L		1.0		E624	03/31	/17 16:09 / ell-b
1-Dichloropropene			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
is-1,3-Dichloroproper	6	ND			1.0		E624		/17 16:09 / eli-b
ans-1,3-Dichioroprop			ug/L		1.0		E624		/17 16:09 / eli-b
thylbenzene		ND	-		1.0		E624		/17 16:09 / ell-b

Report Definitions:

RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch

Client:Colorado Analytical Laboratories IncProject:170324007 Sterling Ranch MDLab ID:C17030850-001Client Sample ID:170324007 Sterling Ranch MD

Report Date: 04/06/17 Collection Date: 03/23/17 08:03 DateReceived: 03/28/17 Matrix: Groundwater

Analyses         Result         Units         Qualifiers         RL         QCL         Method         Analysis Date / i           VOLATILE ORGANIC COMPOUNDS           Methyl tert-butyi ether (MTBE)         ND         ug/L         2.0         E624         03/31/17 16:09 /           Methyl tert-butyi ether (MTBE)         ND         ug/L         20         E624         03/31/17 16:09 /           Methyl tert-butyi ether (MTBE)         ND         ug/L         10         E624         03/31/17 16:09 /           Methyl tert-butyi ketone         ND         ug/L         10         E624         03/31/17 16:09 /           Methyl isobutyi ketone         ND         ug/L         10         E624         03/31/17 16:09 /           Methylene chloride         ND         ug/L         0.50         E624         03/31/17 16:09 /           Naphthalene         ND         ug/L         1.0         E624         03/31/17 16:09 /           Styrene         ND         ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17 16:09 /	20
Methyl tert-butyl ether (MTBE)         ND         ug/L         2.0         E624         03/31/17         16:09 /           Methyl ethyl ketone         ND         ug/L         20         E624         03/31/17         16:09 /           Methyl isobutyl ketone         ND         ug/L         10         E624         03/31/17         16:09 /           Methyl isobutyl ketone         ND         ug/L         10         E624         03/31/17         16:09 /           Methyl isobutyl ketone         ND         ug/L         10         E624         03/31/17         16:09 /           Methylene chloride         ND         ug/L         1.0         E624         03/31/17         16:09 /           Naphthalene         ND         ug/L         0.50         E624         03/31/17         16:09 /           Styrene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0	28
Methyl ethyl ketone         ND ug/L         20         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND ug/L         10         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND ug/L         10         E624         03/31/17 16:09 /           Methyl ene chloride         ND ug/L         1.0         E624         03/31/17 16:09 /           Naphthalene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Tetrachloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 / <t< td=""><td></td></t<>	
Methyl isobutyl ketone         ND ug/L         10         E624         03/31/17 16:09 /           Methylene chloride         ND ug/L         1.0         E624         03/31/17 16:09 /           Naphthalene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Tetrachloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	eli-b
Methylene chloride         ND         ug/L         1.0         E624         03/31/17         16:09 /           Naphthalene         ND         ug/L         0.50         E624         03/31/17         16:09 /           Styrene         ND         ug/L         0.50         E624         03/31/17         16:09 /           Styrene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Tetrachloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           Toluene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1-Trichloroethane         ND         ug/L         1.0         E624         03	eli-b
Naphthalene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Tetrachloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Toluene         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	eli-b
Styrene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Tetrachloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           Toluene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624<	eli-b
Tetrachloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           Toluene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Trichloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0	eli-b
Instruction         Instruction	eli-b
1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Toluene         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichlorofiuoromethane         ND ug/L         1.0         E624         03/31/17 16:09 /	ell-b
Toluene         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichlorofiuoromethane         ND ug/L         1.0         E624         03/31/17 16:09 /	eli-b
Trichloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichlorofiuoromethane         ND ug/L         1.0         E624         03/31/17 16:09 /	eli-b
1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichlorofiuoromethane         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 /           Trichlorofluoromethane         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 /	eli-b
	eli-b
4 D D Triphionenene	ell-b
1,2,3-Trichloropropane ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
Vinyl Acetate ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
Vinyl chloride ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
m+p-Xylenes ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
o-Xylene ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
Xylenes, Total ND ug/L 1.0 E624 03/31/17 16:09 /	eli-b
Surr: 1,2-Dichloroethane-d4 105 %REC 71-139 E624 03/31/17 16:09 /	eli-b
Surr: p-Bromofluorobenzene 102 %REC 80-127 E624 03/31/17 16:09 /	∋lí-b
Surr: Toluene-d8 92.0 %REC 80-123 E624 03/31/17 16:09 / 6	ali-b
SEMI-VOLATILE ORGANIC COMPOUNDS	
Acenaphthene ND ug/L 10 E625 03/30/17 17:14 / 0	
Acenaphthylene ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
Anthracene ND ug/L 10 E625 03/30/17 17:14 / 0	
Azobenzene ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
Benzidine ND ug/L 10 E625 03/30/17 17:14 / 0	
Benzo(a)anthracene ND ug/L 10 E625 03/30/17 17:14 / 0	eli <b>-b</b>
Benzo(a)pyrene ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
Benzo(b)fluoranthene ND ug/L 10 E625 03/30/17 17:14 / 6	eli-b
Benzo(g,h,i)perylene ND ug/L 10 E625 03/30/17 17:14 / 6	elí-b
Benzo(k)fluoranthene ND ug/L 10 E625 03/30/17 17:14 / 6	eli <b>-b</b>
4-Bromophenyl phenyl ether ND ug/L 10 E625 03/30/17 17:14 / 6	eli <b>-b</b>
Butylbenzylphthalate ND ug/L 10 E625 03/30/17 17:14 / 6	
4-Chloro-3-methyiphenoi ND ug/L 10 E625 03/30/17 17:14 / e	eli-b
bis(-2-chloroethoxy)Methane ND ug/L 10 E625 03/30/17 17:14 / 6	li-b
bis(-2-chloroethyl)Ether ND ug/L 10 E625 03/30/17 17:14 / e	li-b
bis(2-chloroisopropyl)Ether ND ug/L 10 E625 03/30/17 17:14 / 6	li-b
2-Chloronaphthalene ND ug/L 10 E625 03/30/17 17:14 / e	d b
2-Chlorophenol ND ug/L 10 E625 03/30/17 17:14 / e	-11-12

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc
Project:	170324007 Sterling Ranch MD
Lab ID:	C17030850-001
Client Sample ID:	170324007 Sterling Ranch MD

Report Date: 04/06/17 Collection Date: 03/23/17 08:03 DateReceived: 03/28/17 Matrix: Groundwater

					MCL/	
Analyses	Result	Units	Qualifiers	RL	QCL Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS	,					
4-Chlorophenyl phenyl ether	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
Chrysene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Diethyl phthalate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Di-n-butyi phthalate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
1.2-Dichlorobenzene	ND			10	E625	03/30/17 17:14 / ell-b
1,3-Dichlorobenzene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
1,4-Dichlorobenzene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
3,3'-Dichlorobenzidine		_		10	E625	03/30/17 17:14 / eli-b
2,4-Dichlorophenol	ND	ug/L				
Dimethyl phthaiate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Di-n-octyl phthalate	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
Dibenzo(a,h)anthracene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
2,4-Dimethylphenol	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
4,6-Dinitro-2-methylphenol	ND	ug/L		50	E625	03/30/17 17:14 / eli-b
2,4-Dinitrophenol	ND	ug/L		50	E625	03/30/17 17:14 / ell-b
2,4-Dinitrotoluene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
2,6-Dinitrotoluene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
bis(2-ethylhexyl)Phthalate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Fluoranthene	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
Fluorene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Hexachlorobenzene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Hexachlorobutadiene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Hexachloroethane	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Indeno(1,2,3-cd)pyrene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Isophorone	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
n-Nitrosodimethylamine	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
n-Nitroso-di-n-propylamine	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
2-Nitrophenol	ND	ug/L		10	E625	03/30/17 17:14 / ell-b
4-Nitrophenol	ND	ug/L		50	E625	03/30/17 17:14 / eli-b
	ND	-		10	E625	03/30/17 17:14 / eli-b
Naphthalene		ug/L		10	E625	03/30/17 17:14 / eli-b
Nitrobenzene	ND	ug/L				03/30/17 17:14 / eli-b
Pentachiorophenol	ND	ug/L		50	E625	
Phenanthrene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Phenoi		ug/L		10	E625	03/30/17 17:14 / eli-b
Pyrene		ug/L		10	E625	03/30/17 17:14 / eli-b
1,2,4-Trichlorobenzene		ug/L		10	E625	03/30/17 17:14 / eli-b
2,4,6-Trichlorophenol		ug/L		10	E625	03/30/17 17:14 / ell-b
Surr: 2-Fluorobiphenyl		%REC		28-107	E625	03/30/17 17:14 / eli-b
Surr: 2-Fluorophenol		%REC		20-56	E625	03/30/17 17:14 / eli-b
Surr: Nitrobenzene-d5	63.0	%REC		32-94	E625	03/30/17 17:14 / eli-b
Surr: Phenoi-d5	27.0	%REC		1 <b>9-4</b> 5	E625	03/30/17 17:14 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc
Project:	170324007 Sterling Ranch MD
Lab ID:	C17030850-001
Client Sample ID:	170324007 Sterling Ranch MD

Report Date: 04/06/17 Collection Date: 03/23/17 08:03 DateReceived: 03/28/17 Matrix: Groundwater

Analyses	Result Units	Qualifiers RL	MCL/ QCL Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPO	UNDS			
Surr: Terphenyl-d14	70.0 %REC	32-122	E625	03/30/17 17:14 / ell-b
Surr: 2,4,6-Tribromophenol	68.0 %REC	21-130	E625	03/30/17 17:14 / eli-b



Prepared by Billings, MT Branch

### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Ar	alytical Run	R277281
Lab ID: ccv033117	Continuing Ca	libration Verit	fication Standa	ard				03/31	1/17 08:45
Acetone	58.0	ug/L	20	116	70	130			
Acetonitrile	56.4	ug/L	20	113	70	130			
Acrolein	56.4	ug/L	20	113	70	130			
Acrylonitrile	49.6	ug/L	20	99	70	130			
Benzene	5.08	ug/L	0.50	102	70	130			
Bromobenzene	5.04	ug/L	0.50	101	70	130			
Bromochloromethane	5.36	ug/L	0.50	107	70	130			
Bromodichloromethane	4.92	ug/L	0,50	98	70	130			
Bromoform	5.04	ug/L	0.50	101	70	130			
Bromomethane	4,28	ug/L	0.50	86	70	130			
Carbon disulfide	5.32	ug/L	0.50	106	70	130			
Carbon tetrachloride	5.80	ug/L	0.50	116	70	130			
Chlorobenzene	4.56	ug/L	0.50	91	70	130			
Chlorodibromomethane	5.04	ug/L	0.50	101	70	130			
Chloroethane	4.80	ug/L	0.50	96	70	130			
2-Chloroethyl vinyl ether	2.90	ug/L	1.0	58	70	130			S
Chloroform	5.60	ug/L	0.50	112	70	130			
Chloromethane	3,82	ug/L	0.50	76	70	130			
2-Chlorotoluene	5.00	ug/L	0.50	100	70	130			
4-Chiorotoluene	5.44	ug/L	0.50	109	70	130			
1,2-Dibromoethane	4.68	ug/L	0.50	94	70	130			
Dibromomethane	4.96	ug/L	0.50	99	70	130			
1,2-Dichlorobenzene	5.04	ug/L	0.50	101	70	130			
1,3-Dichlorobenzene	5.16	ug/L	0.50	103	70	130			
1,4-Dichlorobenzene	5.00	ug/L	0.50	100	70	130			
Dichlorodifluoromethane	5,20	ug/L	0.50	104	70	130			
1,1-Dichloroethane	4.96	ug/L	0.50	99	70	130			
1,2-Dichloroethane	6.24	ug/L	0.50	125	70	130			
1,1-Dichloroethene	5.12	ug/L	0.50	102	70	130			
cis-1,2-Dichloroethene	4.76	ug/L	0.50	95	70	130			
trans-1,2-Dichloroethene	5.00	ug/L	0.50	100	70	130			
1,2-Dichloropropane	4.88	ug/L	0.50	98	70	130			
1,3-Dichloropropane	4.88	ug/L	0.50	98	70	130			
2,2-Dichloropropane	5.72	ug/L	0.50	114	70	130			
1,1-Dichloropropene	5.44	ug/L	0.50	109	70	130			
cls-1,3-Dichloropropene	4.80	ug/L	0.50	96	70	130			
trans-1,3-Dichloropropene	4.84	ug/L	0.50	97	70	130			
Ethylbenzene	4.88	ug/L	0.50	98	70	130			
Methyl tert-butyl ether (MTBE)	5.20	ug/L	0.50	104	70	130			
Methyl ethyl ketone	54.0	ug/L	20	108	70	130			
Methyl isobutyl ketone	50.4	ug/L	20	101	70	130			
Methylene chloride	5.88	ug/L	0.50	118	70	130			
Naphthalene	5.08	ug/L	0.50	102	70	130			

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Ar	alytical Run:	R277281
Lab ID: ccv033117	Continuing Ca	libration Verif	ication Stands	ard				03/31	/17 08:45
Styrene	4.52	ug/L	0.50	90	70	130			
Tetrachloroethene	4.68	ug/L	0.50	94	70	130			
1,1,1,2-Tetrachlorcethane	4.72	ug/L	0.50	94	70	130			
1,1,2,2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130			
Toluene	4.76	ug/L	0.50	95	70	130			
Trichlorcethene	4.92	ug/L	0.50	98	70	130			
1,1,1-Trichloroethane	5.72	ug/L	0.50	114	70	130			
1,1,2-Trichloroethane	4.72	ug/L	0.50	94	70	130			
Trichiorofluoromethane	4,88	ug/L	0.50	98	70	130			
1,2,3-Trichloropropane	5.24	ug/L	0.50	105	70	130			
Vinyl Acetate	5.32	ug/L	1.0	106	70	130			
Vinyl chloride	4.60	ug/L	0.50	92	70	130			
m+p-Xylenes	9.32	ug/L	0.50	93	70	130			
o-Xylene	4.52	ug/L	0,50	90	70	130			
Xylenes, Total	13.8	ug/L	0.50	92	70	130			
Surr: 1,2-Dichloroethane-d4			0.50	107	71	139			
Surr: p-Bromofluorobenzene			0.50	102	80	127			
Surr: Toluene-d8			0.50	91	80	123			
Method: E624								Batch:	R277281
Lab ID: [cs033117	Laboratory Co	ntrol Comple			Bue: 5071/	A.I_170331A			/17 09:19
	56.0	ug/L	20	112	55	144		60101.	111 00.10
Acetone Acetonitrile	56.8	-	20	114	55 54	144			
Acrolein	42.4	ug/L	20	85	54 16	233			
	48.4	ug/L	20	97	76	127			
Acrylonitrile	40.4	ug/L	20 0.50		78				
Benzene		u <b>g/L</b>		98		122			
Bromobenzene	4.96	ug/L	0.50	99	74	129			
Bromochloromethane	5.16	ug/L	0.50	103	66	120			
Bromodichioromethane	5.16	ug/L	0.50	103	74	128			
Bromoform	5.12	ug/L	0.50	102	66	128			
Bromomethane	4.76	ug/L	0.50	95	51	123			
Carbon disuifide	5.36	ug/L	0.50	107	46	145			
Carbon tetrachloride	5.72	ug/L	0.50	114	75	125			
Chiorobenzene	4.64	ug/L	0.50	93	80	123			
Chiorodibromomethane	5.32	ug/L	0.50	106	74	125			
Chloroethane	4.48	ug/L	0.50	90	59	142			
2-Chloroethyl vinyl ether	2.62	ug/L	1.0	52	36	144			
Chloroform	5.52	ug/L	0.50	110	68	124			
Chloromethane	3.77	ug/L	0.50	75	53	146			
2-Chlorotoluene	5.08	ug/L	0.50	102	75	131			
4-Chlorotoluene	5.36	ug/L	0.50	107	74	129			
1,2-Dibromoethane	4.64	ug/L	0.50	93	76	124			
Dibromomethane	5.16	ug/L	0.50	103	77	125			

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	<b>Result</b>	Jnits	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R277281
Lab ID: Ics033117	Laboratory Contr	ol Sample			Run: 5971/	A.I_170331A		03/31	/17 09:19
1,2-Dichlorobenzene	4.96 1	ıg/L	0.50	99	74	124			
1,3-Dichlorobenzene	5.12 0	ig/L	0.50	102	77	122			
1,4-Dichlorobenzene	4.96 (	ig/L	0.50	99	76	126			
Dichlorodifluoromethane	5.60 i	ıg/L	0.50	112	56	146			
1,1-Dichloroethane	4.72	íg/L	0.50	94	74	133			
1,2-Dichloroethane	5.76 เ	íg/L	0.50	<b>115</b>	75	129			
1,1-Dichloroethene	5.16 i	ig/L	0.50	103	74	132			
cis-1,2-Dichloroethene	4.88 i	ıg/L	0.50	98	81	122			
trans-1,2-Dichloroethene	5.12 (	ig/L	0.50	102	79	143			
1,2-Dichloropropane	4.60 (	ıg/L	0.50	92	75	126			
1,3-Dichloropropane	4.68 เ	ig/L	0,50	94	71	136			
2,2-Dichloropropane	5.68 נ	ig/L	0.50	114	68	142			
1,1-Dichloropropene	5.00 u	ig/L	0.50	100	70	131			
cis-1,3-Dichloropropene	4.40 (	ıg/L	0.50	88	74	135			
trans-1,3-Dichloropropene	4.84 (	ıg/L	0.50	97	76	149			
Ethylbenzene	4.96 (	ıg/L	0.50	99	72	130			
Methyl tert-butyl ether (MTBE)	5.12 u	ig/L	0.50	102	72	120			
Methyl ethyl ketone	52.0 L	ig/L	20	104	45	130			
Methyl isobutyl ketone	50.8 L	ig/L	20	102	58	135			
Methylene chloride	6.08 L	ig/L	0.50	122	66	142			
Naphthalene	5.60 L	ig/L	0.50	112	69	124			
Styrene	4.56 L	ig/L	0.50	91	80	124			
Tetrachloroethene	4.72 u	ig/L	0.50	94	72	131			
1,1,1,2-Tetrachloroethane		g/L	0.50	93	78	124			
1,1,2,2-Tetrachloroethane		lg/L	0.50	95	68	137			
Toluene		ig/L	0.50	95	72	135			
Trichloroethene		ig/L	0.50	96	85	126			
1,1,1-Trichloroethane	5.40 u	ig/L	0.50	108	63	120			
1,1,2-Trichloroethane		ig/L	0.50	90	78	124			
Trichlorofluoromethane		g/L	0.50	90	72	120			
1,2,3-Trichloropropane		g/L	0.50	94	64	138			
Vinyl Acetate		g/L	1.0	95	31	124			
Vinyi chloride		g/L	0.50	95	58	140			
m+p-Xylenes		g/L	0.50	91	67	139			
o-Xylene		g/L	0.50	90	74	135			
Xylenes, Total	13.6 u	g/L	0.50	90	70	137			
Surr: 1,2-Dichloroethane-d4			0,50	109	71	139			
Surr: p-Bromofluorobenzene			0.50	102	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: bik033117	Method Blank				Run: 5971A			03/31	17 10:18
Acetone	ND u	g/L	20						
Acetonitrile	ND u	g/L	20						

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC Low Limit Hig	ih Limit	RPD	RPDLimit	Quai
Method: E624							Batch:	R277281
Lab (D: bik033117	Method Blank			Run: 5971A.I_1	70331A		03/31	/17 10:18
Acrolein	ND	ug/L	20	_				
Acrylonitrile	ND	ug/L	20					
Benzene	ND	ug/L	0.50					
Bromobenzene	ND	ug/L	0.50					
Bromochloromethane	ND	ug/L	0.50					
Bromodichloromethane	ND	ug/L	0.50					
Bromoform	ND	ug/L	0.50					
Bromomethane	ND	ug/L	0.50					
Carbon disulfide	ND	ug/L	0.50					
Carbon tetrachloride	ND	ug/L	0.50					
Chlorobenzene	ND	ug/L	0.50					
Chlorodibromomethane	ND	ug/L	0.50					
Chloroethane	ND	ug/L	0.50					
2-Chloroethyl vinyl ether	ND	ug/L	1.0					
Chloroform	ND	ug/L	0.50					
Chloromethane	ND	ug/L	0.50					
2-Chiorotoluene	ND	ug/L	0.50					
4-Chiorotoluene	ND	ug/L	0.50					
1,2-Dibromoethane	ND	ug/L	0.50					
Dibromomethane	ND	ug/L	0.50					
1.2-Dichlorobenzene	ND	ug/L	0.50					
1,3-Dichlorobenzene	ND	ug/L	0.50					
1,4-Dichlorobenzene	ND	ug/L	0.50					
Dichlorodifiuoromethane	ND	ug/L	0.50					
1,1-Dichloroethane	ND	ug/L	0.50					
1,2-Dichloroethane	ND	ug/L	0.50					
1,1-Dichloroethene	ND	ug/L	0.50					
cis-1,2-Dichloroethene	ND	ug/L	0.50					
trans-1,2-Dichloroethene	ND	ug/L	0.50					
1,2-Dichloropropane	ND	ug/L	0.50					
1,3-Dichloropropane	ND	ug/L	0.50					
	ND	-	0.50					
2,2-Dichloropropane	ND	ug/L	0.50					
1,1-Dichloropropene		ug/L						
cis-1,3-Dichloropropene	ND	ug/L	0.50					
trans-1,3-Dichloropropene	ND	ug/L	0.50					
Ethylbenzene Mathyl tart hutul athen (MTRE)	ND	ug/L	0.50					
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50					
Methyl ethyl ketone	ND	ug/L	20					
Methyl isobutyl ketone	ND	ug/L	20					
Methylene chloride	ND	ug/L	0.50					
Naphthalene	ND	ug/L	0.50					
Styrene	ND	ug/L	0.50					
Tetrachloroethene	ND	ug/L	0.50					

#### **Qualifiers:**

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R27728
Lab (D: bik033117	Method Blank	t			Run: 5971/	A.I_170331A		03/31	/17 10:18
1,1,1,2-Tetrachloroethau	ne ND	ug/L	0.50						
1,1,2,2-Tetrachloroetha	ne ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
I,1,1-Trichloroethane	ND	ug/L	0.50						
1,1,2-Trichloroethane	ND	ug/L	0.50						
richlorofluoromethane	ND	u <b>g/L</b>	0.50						
1,2,3-Trichloropropane	ND	ug/L	0.50						
/inyl Acetate	ND	ug/L	1.0						
/inyl chloride	ND	ug/L	0.50						
n+p-Xylenes	ND	ug/L	0.50						
-Xylene	ND	ug/L	0.50						
(yienes, Total	ND	ug/L	0.50						
Surr: 1,2-Dichloroetha	ane-d4	-	0.50	105	71	139			
Surr: p-Bromofluorob			0.50	104	80	127			
Surr: Toluene-d8			0.50	92	80	123			
ab  D: b1703187	5-001dms Sample Matrix	x Spike			Run: 5971/	A.I_170331A		03/31	/17 14:1:
cetone	378	u <b>g/L</b>	100	109	55	144			
cetonitrile	274	ug/L	100	110	54	142			
lenzene	24.6	ug/L	2.5	98	73	122			
romobenzene	24.8	ug/L	2.5	99	74	129			
romochloromethane	25.2	ug/L	2.5	101	66	120			
romodichloromethane	26.2	ug/L	2.5	105	74	128			
Bromoform	27.0	ug/L	2.5	108	66	128			
Iromomethane	18.8	ug/L	2.5	75	51	123			
Carbon disulfide	26.4	ug/L	2.5	106	46	145			
Carbon tetrachloride	28.2	ug/L	2,5	113	75	125			
chiorobenzene	22.8	ug/L	2.5	91	80	123			
hlorodibromomethane	26.8	ug/L	2.5	107	74	125			
Chloroethane	20.2	ug/L	2.5	81	59	142			
Chieroform	33.2	ug/L	2.5	110	68	124			
Chloromethane	18.6	ug/L	2.5	74	53	146			
2-Chlorotoluene	24.8	ug/L	2.5	99	75	131			
-Chlorotoluene	25.8	ug/L	2.5	103	74	129			
,2-Dibromoethane	24.0	ug/L	2.5	96	76	124			
Dibromomethane	26.2	ug/L	2.5	105	77	125			
,2-Dichlorobenzene	24.6	ug/L	2.5	98	74	124			
,3-Dichlorobenzene	24.6	ug/L	2.5	98	77	122			
,4-Dichlorobenzene	24.6	ug/L	2.5	98	76	126			
) Dichlorodifiuoromethane		ug/L	2.5	108	56	146			
,1-Dichloroethane	24.2	ug/L	2.5	97	74	133			
•	29.2	ug/L	2.5	117	75	129			

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R277281
Lab ID: b17031875-001dms	Sample Matri	k Spike			Run: 5971	A.I_170331A		03/31	/17 14:12
1,1-Dichloroethene	26.6	ug/L	2.5	106	74	132			
cis-1,2-Dichloroethene	24.4	ug/L	2.5	98	81	122			
trans-1,2-Dichloroethene	25.8	ug/L	2.5	103	79	143			
1,2-Dichloropropane	23.0	ug/L	2.5	92	75	126			
1,3-Dichloropropane	22.4	ug/L	2.5	90	71	136			
2,2-Dichloropropane	28.0	ug/L	2.5	112	68	142			
1,1-Dichioropropene	25.2	ug/L	2.5	101	70	131			
cis-1,3-Dichloropropene	22.2	ug/L	2.5	89	74	135			
trans-1,3-Dichloropropene	24.6	ug/L	2.5	98	76	149			
Ethylbenzene	23.6	ug/L	2.5	94	72	130			
Methyl tert-butyl ether (MTBE)	25.6	ug/L	2.5	102	72	120			
Methyl ethyl ketone	268	ug/L	100	107	45	130			
Methyl isobutyl ketone	258	ug/L	100	103	58	135			
Methylene chloride	32.2	ug/L	2.5	129	66	142			
Naphthalene	27.6	ug/L	2.5	110	69	124			
Styrene	22.4	ug/L	2.5	90	80	124			
Tetrachloroethene	22.8	ug/L	2.5	91	72	131			
1,1,1,2-Tetrachioroethane	23.0	ug/L	2.5	92	78	124			
1,1,2,2-Tetrachloroethane	26.0	ug/L	2.5	104	68	137			
Toluene	24.4	ug/L	2.5	95	72	135			
Trichloroethene	23.8	ug/L	2.5	95	85	126			
1,1,1-Trichloroethane	26.8	ug/L	2.5	107	63	120			
1,1,2-Trichloroethane	23.4	ug/L	2.5	94	78	124			
Trichlorofluoromethane	21.2	ug/L	2.5	85	72	120			
1,2,3-Trichloropropane	26.2	ug/L	2.5	105	64	138			
Vinyl Acetate	24.4	ug/L	5.0	98	31	124			
Vinyl chloride	22.6	ug/L	2.5	90	58	140			
m+p-Xylenes	44.8	ug/L	2.5	90	67	139			
o-Xylene	22.6	ug/L	2.5	90	74	135			
Xylenes, Total	67.4	ug/L	2.5	90	70	137			
Surr: 1,2-Dichloroethane-d4			2.5	110	71	139			
Surr: p-Bromofluorobenzene			2.5	102	80	127			
Surr: Toluene-d8			2.5	93	80	123			
Lab ID: b17031875-001dmsd	Sample Matrix	Spike Duplicate			Run: 5971/	.I_170331A		03/31	/ <b>17 15:1</b> 1
Acetone	410	ug/L	100	122	55	144	8.1	20	
Acetonitrile	262	ug/L	100	105	54	142	4.5	20	
Benzene	25.0	ug/L	2.5	100	73	122	1.6	20	
Bromobenzene	25.6	ug/L	2.5	102	74	129	3.2	20	
Bromochloromethane	25,2	ug/L	2.5	101	66	120	0.0	20	
Bromodichloromethane	27.2	ug/L	2.5	109	74	128	3.7	20	
Bromoform	28.4	ug/L	2.5	114	66	128	5.1	20	
Bromomethane	20.8	ug/L	2.5	83	51	123	10	20	

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPOLimit	Qual
Method:	E624								Batch:	R27728
Lab ID:	b17031875-001dmsd	Sample Matrix	c Spike Duplicate			Run: 5971/	A.I_170331A		03/31	/17 15:11
Carbon dis	ulfide	25.6	ug/L	2.5	102	46	145	3.1	20	
Carbon tet	rachloride	28.6	ug/L	2.5	114	75	125	1.4	20	
Chlorobena	zene	23.6	ug/L	2.5	94	80	123	3.4	20	
Chlorodibro	omomethane	28.0	ug/L	2.5	112	74	125	4.4	20	
Chloroetha	ine	20.6	ug/L	2.5	82	59	142	2.0	20	
Chloroform	1	33.6	ug/L	2.5	111	68	124	1.2	20	
Chlorometi	hane	19.3	ug/L	2.5	77	53	146	3.8	20	
2-Chloratol	luene	26.4	ug/L	2.5	106	75	131	6.2	20	
4-Chlorotol	uene	27.2	ug/L	2.5	109	74	129	5.3	20	
1.2-Dibrom	oethane	24.0	ug/L	2.5	96	76	124	0.0	20	
Dibromome	ethane	26.8	ug/L	2.5	107	77	125	2.3	20	
1,2-Dichlor		25.8	ug/L	2.5	103	74	124	4.8	20	
1,3-Dichlor		26.0	ug/L	2.5	104	77	122	5.5	20	
1,4-Dichior		25.4	ug/L	2.5	102	76	126	3.2	20	
	luoromethane	25.8	ug/L	2.5	103	56	146	4.5	20	
1,1-Dichlor		24.8	ug/L	2.5	99	74	133	2.4	20	
1,2-Dichlor		29.2	ug/L	2.5	117	75	129	0.0	20	
1,1-Dichlor		26.8	ug/L	2.5	107	74	132	0.7	20	
•	hloroethene	25.2	ug/L	2.5	101	81	122	3.2	20	
	lichloroethene	26.4	ug/L	2.5	106	79	143	2.3	20	
1,2-Dichlor		23.6	ug/L	2.5	94	75	126	2.6	20	
1,3-Dichlor	• •	23.8	ug/L	2.5	95	71	136	6.1	20	
2,2-Dichlor		28.6	ug/L	2.5	114	68	142	2.1	20	
1,1-Dichlor		25.8	ug/L	2.5	103	70	131	2.4	20	
•	hloropropene	23.2	ug/L	2.5	93	74	135	4.4	20	
	lichloropropene	25.4	ug/L	2.5	102	76	149	3.2	20	
Ethylbenze		25.0	ug/L	2.5	100	72	130	5,8	20	
	-buty! ether (MTBE)	26.6	ug/L	2.5	106	72	120	3.8	20	
Methyl ethy		292	ug/L	100	117	45	130	8.6	20	
	putyl ketone	286	ug/L	100	114	43 58	135	10	20	
		31.4		2.5	126	66	142	2.5	20	
Methylene Naphthaler		27.8	ug/L	2.5	111	69	142	0.7	20	
	16	27.8	ug/L	2.5	91		124	1.8	20	
Styrene	- the		ug/L			80				
		23.8	ug/L	2,5 2.5	95 93	72 78	131 124	4.3 0,9	20 20	
	rachloroethane	23.2	ug/L							
	rachloroethane	27.4	ug/L	2.5	110	68	137	5.2	20	
Toluene Trick(croot)		24.4	ug/L	2.5	95 100	72	135	0.0	20	
Trichloroeti		25.0	ug/L	2.5	100	85	126	4.9	20	
	loroethane	27.4	ug/L	2.5	110	63	120	2.2	20	
1,1,2-Trich		24.8	ug/L	2.5	99	78	124	5.8	20	
	oromethane	22.4	ug/L	2.5	90	72	120	5.5	20	
	loropropane	26.8	ug/L	2.5	107	64	138	2.3	20	
Vinyl Aceta	te	24.4	ug/L	5.0	98	31	124	0.0	20	

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E624								Batch:	R277281
Lab ID:	b17031875-001dmsd	Sample Matrix	k Spike Duplicate			Run: 5971/	A.I_170331A		03/31	/17 15:11
Vinyl chlo	ride	22.8	ug/L	2.5	91	58	140	0.9	20	
m+p-Xyler	nes	46.0	ug/L	2.5	92	67	139	2.6	20	
o-Xylene		23.4	ug/L	2.5	94	74	135	3.5	20	
Xylenes, 1	Total	69.4	ug/L	2.5	93	70	137			
Surr: 1,	2-Dichloroethane-d4			2.5	112	71	139			
Surr: p-	Bromofluorobenzene			2.5	105	80	127			
Surr: To	oluene-d8			2.5	93	80	123			



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

### Project: 170324007 Sterling Ranch MD

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Bato	h: 107942
Lab ID:	MB-107942	Method Blank				Run: SV59	73N2.I_170330B		03/30	0/17 16:12
Acenaphthe	ene	ND	ug/L	10						
Acenaphth)	/lene	ND	ug/L	10						
Anthracene		ND	ug/L	10						
Azobenzen	e	ND	ug/L	10						
<b>Benzidine</b>		ND	ug/L	10						
Benzo(a)an	thracene	ND	ug/L	10						
Benzo(a)py	rene	ND	ug/L	10						
Benzo(b)fiu	oranthene	ND	ug/L	10						
Benzo(g,h,i	)perylene	ND	ug/L	10						
Benzo(k)flu	oranthene	ND	ug/L	10						
4-Bromophe	enyl phenyl ether	ND	ug/L	10						
Butylbenzyl	phthalate	ND	ug/L	10						
4-Chloro-3-	methylphenol	ND	ug/L	10						
bis(-2-chior	oethoxy)Methane	ND	ug/L	10						
bis(-2-chlore	pethyl)Ether	ND	ug/L	10						
bis(2-chloro	isopropyl)Ether	ND	ug/L	10						
2-Chlorona	ohthalene	ND	ug/iL	10						
2-Chloroph	BNO	ND	ug/L	10						
4-Chlorophe	anyl phenyl ether	ND	ug/L	10						
Chrysene		ND	ug/L	10						
Diethyl phth	alate	ND	ug/L	10						
Di-n-butyl p	hthalate	ND	ug/L	10						
1,2-Dichloro	benzene	ND	ug/L	10						
1,3-Dichlord	benzene	ND	ug/L	10						
1,4-Dichlord	benzene	ND	ug/L	10						
3,3'-Dichlor	obenzidine	ND	ug/L	10						
2,4-Dichloro	phenol	ND	ug/L	10						
Dimethyl ph		ND	ug/L	10						
Di-n-octyl pl		ND	ug/L	10						
	i)anthracene	ND	ug/L	10						
2,4-Dimethy	•	ND	ug/L	10						
	2-methylphenol	ND	u <b>g</b> /L	50						
2,4-Dinitrop		ND	ug/L	50						
2,4-Dinitroto		ND	ug/L	10						
2,6-Dinitroto		ND	ug/L	10						
	exyl)Phthalate	ND	ug/L	10						
Fluoranthen	e	ND	ug/L	10						
Fluorene		ND	ug/L	10						
Hexachlorol		ND	ug/L	10						
Hexachlorol		ND	ug/L	10						
	cyclopentadiene	ND	ug/L	10						
Hexachloroe		ND	ug/L	10						
Indeno(1,2,	3-cd)pyrene	ND	ug/L	10						

#### **Qualifiers:**

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result U	nits Ri	. %REC	Low Limit	High Limit	RPD	RPDLimit	Quai
Method: E625							Batcl	n: <b>10794</b> 2
Lab ID: MB-107942	Method Blank			Run: SV59	73N2.I_170330B		03/30	/17 16:12
Isophorone	ND uş	g/L 10						
n-Nitrosodimethylamine	ND ug	g/L 10						
n-Nitroso-di-n-propylamine	ND uş	g/L 10						
n-Nitrosodiphenylamine	ND uş	g/L 10						
2-Nitrophenol	ND uş	<b>j/L 1</b> 0						
4-Nitrophenol	ND uş	g/L 50						
Naphthalene	ND uş	g/L 10						
Nitrobenzene	ND uş	g/L 10						
Pentachlorophenol	ND uş	g/L 58						
Phenanthrene	ND uş	g/L 10						
Phenol	ND ug	g/L 10						
Pyrene	ND uç	g/L 10						
1,2,4-Trichlorobenzene	ND uş	g/L 10						
2,4,6-Trichlorophenol	ND ug	g/L 10						
Surr: 2-Fluorobiphenyl		10	57	28	107			
Surr: 2-Fluorophenol		10	42	20	56			
Surr: Nitrobenzene-d5		10	62	32	94			
Surr: Phenol-d5		10	30	19	45			
Surr: Terphenyl-d14		10	80	32	122			
Surr: 2,4,6-Tribromophenol		10	68	21	130			
Lab ID: LCS-107942	Laboratory Control	i Sample		Run: SV59	73N2. _170330B		03/30	/17 16:43
Acenaphthene	89.1 ug	g/L 10		58	99			
Acenaphthylene	<b>84.2</b> ug	g/L 10		57	96			
Anthracene	75.6 ug	g/L 10		60	107			
Azobenzene	78.0 ug	g/L 10		56	100			
Benzidine	53.1 ug	g/L 10	53	10	100			
Benzo(a)anthracene	86.4 ug	g/L 10		62	114			
Benzo(a)pyrene	84.7 ug	g/L 10		62	108			
Benzo(b)fluoranthene	gu 8.68	g/L 10		48	127			
Benzo(g,h,i)perylene	87.2 ug	J/L 10		62	121			
Benzo(k)fluoranthene	84.0 ug	g/L 10		55	111			
4-Bromophenyl phenyl ether	87.1 uç	g/L 10	87	58	105			
Butylbenzylphthalate	90.8 ug	g/L 10	91	60	113			
4-Chloro-3-methyiphenoi	74.6 ug	g/L 10		53	92			
bis(-2-chloroethoxy)Methane	69.9 ug	g/L 10		50	92			
bis(-2-chloroethyl)Ether	72.1 ug	g/L 10		44	82			
bis(2-chloroisopropyl)Ether		g/L 10		56	87			
2-Chloronaphthalene		g/L 10		56	95			
2-Chlorophenol		J/L 10		47	76			
4-Chlorophenyl phenyl ether		g/L 10		58	99			
Chrysene		g/L 10		63	106			
Diethyl phthalate	84.6 ug	y/L 10	85	58	103			

**Qualifiers:** 

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625								Batc	h: 107942
Lab ID: LCS-107942	Laboratory Con	trol Sample			Run: SV59	73N2.I_170330B		03/30	)/17 16:43
Di-n-butyl phthalate	87.1	ug/L	10	87	61	110			
1,2-Dichlorobenzene	69.3	ug/L	10	69	43	81			
1,3-Dichlorobenzene	64.0	ug/L	10	64	41	79			
1,4-Dichlorobenzene	64.5	ug/L	10	64	42	79			
3,3'-Dichlorobenzidine	64.8	ug/L	10	65	51	93			
2,4-Dichlorophenol	70.6	ug/L	10	71	49	90			
Dimethyl phthalate	82.5	ug/L	10	82	58	104			
Di-n-octyl phthalate	93.4	ug/L	10	93	56	110			
Dibenzo(a,h)anthracene	87.8	ug/L	10	88	61	111			
2,4-Dimethylphenol	66.2	ug/L	10	66	45	89			
4,6-Dinitro-2-methylphenol	66.1	ug/L	50	66	37	105			
2,4-Dinitrophenol	54.1	ug/L	50	54	27	81			
2,4-Dinitrotoluene	86.2	ug/L	10	86	63	110			
2,6-Dinitrotoluene	77.2	ug/L	10	77	60	107			
bis(2-ethylhexyl)Phthalate	86.0	ug/L	10	86	56	108			
Fluoranthene	84.2	ug/L	10	84	63	110			
Fluorene	89.3	ug/L	10	89	60	99			
Hexachlorobenzene	82.7	ug/L	10	83	57	103			
Hexachiorobutadiene	71.7	ug/L	10	72	39	83			
Hexachiorocyclopentadlene	81.0	ug/L	10	81	39	91			
Hexachloroethane	65.0	ug/L	10	65	37	75			
Indeno(1,2,3-cd)pyrene	83.2	ug/L	10	83	59	109			
Isophorone	69.8	ug/L	10	70	42	102			
n-Nitrosodimethylamine	36.8	ug/L	10	37	20	45			
n-Nitroso-di-n-propylamine	76.6	ug/L	10	77	49	98			
n-Nitrosodiphenyiamine	91.5	ug/L	10	92	61	108			
2-Nitrophenol	72.3	ug/L	10	72	51	96			
4-Nitrophenol	27.4	ug/L	50	27	15	36			
Naphthalene	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								Batcl	h: 107942
Lab (D:	C17030850-001CMS	Sample Matri	k Spike			Run: SV59	73N2.I_1703308	ł	03/30	/17 17:45
Acenaphthe	ene	86.7	ug/L	10	87	58	99			
Acenaphth	ylene	75.5	ug/L	10	76	57	96			
Anthracene	)	81.6	ug/L	10	82	60	107			
Azobenzen	e	84.6	ug/L	10	85	56	100			
Benzidine		122	ug/L	20	122	10	100			S
Benzo(a)an	thracene	83.4	ug/L	10	83	62	114			
Benzo(a)py	rene	78.4	ug/L	10	78	62	108			
Benzo(b)flu	oranthene	79.9	ug/L	10	80	48	127			
Senzo(g,h,i	)perylene	83.2	ug/L	10	83	62	121			
Benzo(k)flu	oranthene	84.5	ug/L	10	84	55	111			
4-Bromoph	enyl phenyl ether	79.5	u <b>g</b> /L	10	79	58	105			
Butylbenzyl	phthalate	89.2	ug/L	10	89	60	113			
4-Chloro-3-	methylphenol	78.3	ug/L	10	78	53	92			
bis(-2-chlor	oethoxy)Methane	77.9	ug/L	10	78	50	92			
bis(-2-chlor	oethyl)Ether	71.5	ug/L	10	71	44	82			
bis(2-chloro	bisopropyl)Ether	58.4	ug/L	10	58	56	87			
2-Chlorona	phthalene	77.6	ug/L	10	78	56	95			
2-Chloroph	enol	63.7	ug/L	10	64	47	76			
4-Chiorophe	enyi phenyi ether	81.0	ug/L	10	81	58	99			
Chrysene		85.9	ug/L	10	86	63	106			
Diethyl phth	nalate	84.0	ug/L	10	84	58	103			
Di-n-butyl p	hthalate	87.0	ug/L	10	87	61	110			
1,2-Dichlord	obenzene	67.3	ug/L	10	67	43	81			
1,3-Dichloro	obenzene	66.0	ug/L	10	66	41	79			
1,4-Dichloro	obenzene	66.7	u <b>g</b> /L	10	67	42	79			
3,3'-Dichlor	obenzidine	131	ug/L	10	131	51	93			S
2,4-Dichlord	-	70.0	ug/L	10	70	49	90			
Dimethyl ph		79.3	ug/L	10	79	58	104			
Di-n-octyi pi		81.8	ug/L	10	82	56	110			
	i)anthracene	80.1	ug/L	10	80	61	111			
2,4-Dimethy		70.7	ug/L	10	71	45	87			
	2-methylphenol	53.1	ug/L	50	53	37	105			
2,4-Dinitrop		43.0	ug/L	50	43	27	81			
2,4-Dinitroto		85.6	ug/L	10	86	63	110			
2,6-Dinitroto		81.5	ug/L	10	81	60	107			
	exyl)Phthalate	77.5	ug/L	10	77	56	108			
Fluoranthen	e	84.0	ug/L	10	84	63	110			
Fluorene		80.0	ug/L	10	80	60	89			
Hexachlorot		78.2	ug/L	10	78	57	103			
Hexachlorob		69.1	ug/L	10	69	39	83			
	cyclopentadiene	69.0	u <b>g</b> /L	10	69	39	91			
Hexachloroe		62. <del>6</del>	ug/L	10	63	37	75			
Indeno(1,2,3	3-cd)pyrene	76.3	ug/L	10	7 <del>6</del>	59	109			

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625								Batc	h: 107942
Lab ID: C17030850-001CMS	Sample Matrix	c Spike			Run: SV59	73N2.I_170330B		03/30	/17 17:45
lsophorone	71.4	ug/L	10	71	42	102			
n-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: Nitrobenzene-d5			10	64	32	94			
Surr: Phenol-d5			10	33	19	45			
Surr: Terphenyl-d14			10	73	32	122			
Surr: 2,4,6-Tribromophenol			10	67	21	130			



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625			-				Ana	alytical Run:	R277253
Lab ID: 30-Mar-17_CCV_11	Continuing Ca	libration V	erification Standa	Ird				03/30	/17 15:40
Acenaphthene	75.3	ug/L	10	100	80	120			
Acenaphthylene	79.7	ug/L	10	106	80	120			
Anthracene	75.2	ug/L	10	100	80	120			
Azobenzene	75.1	ug/L	10	100	80	120			
Benzidine	70.6	ug/L	10	94	80	120			
Benzo(a)anthracene	76.3	ug/L	10	102	80	120			
Benzo(a)pyrene	81.9	ug/L	10	109	80	120			
Benzo(b)fluoranthene	78.3	ug/L	10	104	80	120			
Benzo(g,h,l)perylene	78.0	ug/L	10	104	80	120			
Benzo(k)fluoranthene	81.6	ug/L	10	109	80	120			
4-Bromophenyl phenyl ether	81.6	ug/L	10	109	80	120			
Butylbenzylphthalate	78.0	ug/L	10	104	80	120			
4-Chloro-3-methylphenol	76.0	ug/L	10	101	80	120			
bis(-2-chloroethoxy)Methane	70.4	ug/L	10	94	80	120			
bis(-2-chloroethyl)Ether	77.2	ug/L	10	103	80	120			
bis(2-chloroisopropyl)Ether	76.7	ug/L	10	102	80	120			
2-Chloronaphthalene	79.8	ug/L	10	106	80	120			
2-Chlorophenol	72.7	u <b>g</b> /L	10	97	80	120			
4-Chlorophenyl phenyl ether	72.7	ug/L	10	97	80	120			
Chrysene	74.9	ug/L	10	100	80	120			
Diethyl phthalate	76.8	ug/L	10	102	80	120			
Di-n-butyl phthalate	76.9	ug/L	10	102	80	120			
1,2-Dichlorobenzene	76.8	ug/L	10	102	80	120			
1,3-Dichlorobenzene	72.1	ug/L	10	96	80	120			
1,4-Dichlorobenzene	74.8	ug/L	10	100	80	120			
3,3'-Dichlorobenzidine	76.2	ug/L	10	102	80	120			
2,4-Dichlorophenol	73.5	ug/L	10	98	80	120			
Dimethyl phthalate	77.0	ug/L	10	103	80	120			
Di-n-octyl phthalate	81.2	ug/L	10	108	80	120			
Dibenzo(a,h)anthracene	76.2	ug/L	10	102	80	120			
2,4-Dimethylphenol	70.3	ug/L	10	94	80	120			
4,6-Dinitro-2-methylphenol	77.4	ug/L	50	103	80	120			
2,4-Dinitrophenol	80.2	ug/L	50	107	80	120			
2,4-Dinitrotoluene 2,6-Dinitrotoluene	79.8	ug/L	10	106	80	120			
	80.8	ug/L	10	108	80	120			
bis(2-ethylhexyl)Phthalate Fluoranthene	77.3	ug/L	10	103	80	120			
Fluorene	76.8 82.8	ug/L	10	102	80 80	120			
Hexachiorobenzene	82.8 74.2	ug/L	10	110	80	120			
Hexachlorobutadiene	74.2	ug/L	10	99	80 80	120			
Hexachiorocyclopentadiene	73.0	ug/L	10	97 106	80 80	120			
Hexachloroethane	74.4	ug/L	10 10	106	80	120			
Indeno(1,2,3-cd)pyrene	73.3	ug/L		99 08	80 80	120			
	f 3.3	ug/L	10	98	80	120			

**Qualifiers:** 

RL - Analyte reporting limit.



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# **QA/QC Summary Report**

Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Ar	aiytical Run:	R277253
Lab ID: 30-Mar-17_CCV_11	Continuing Ca	libration Verifi	cation Standa	urd				03/30	)/17 15:40
Isophorone	71.5	ug/L	10	95	80	120			
n-Nitrosodimethylamine	79.5	ug/L	10	106	80	120			
n-Nitroso-di-n-propylamine	76.0	ug/L	10	101	80	120			
n-Nitrosodiphenylamine	77.5	ug/L	10	103	80	120			
2-Nitrophenol	74.6	ug/L	10	99	80	120			
4-Nitrophenol	72.4	ug/L	50	97	80	120			
Naphthalene	68.4	ug/L	10	91	80	120			
Nitrobenzene	77.1	ug/L	10	103	80	120			
Pentachlorophenol	71.7	ug/L	50	96	80	120			
Phenanthrene	70,9	ug/L	10	95	80	120			
Phenol	79.0	ug/L	10	105	80	120			
Pyrene	79.0	ug/L	10	105	80	120			
1,2,4-Trichiorobenzene	73.1	ug/L	10	98	80	120			
2,4,6-Trichlorophenol	71.0	ug/L	10	95	80	120			
Surr: 2-Fluorobiphenyl			10	108	80	120			
Surr: 2-Fluorophenol			10	105	80	120			
Surr: Nitrobenzene-d5			10	101	80	120			
Surr: Phenol-d5			10	102	80	120			
Surr: Terphenyl-d14			10	104	80	120			
Surr: 2,4,6-Tribromophenol			10	105	80	120			



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte		Result	Units	RL.	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW8260M								Analytical Ru	n: 108173
Lab (D:	CCV-108173	Continuing Ca	libration Verificatio	on Standa	ırd				04/06	/17 08:29
1,4-Dioxane		95.7	ug/L	1.0	96	80	120			
Method:	SW8260M								Batcl	h: 108173
Lab ID:	LCS-108173	Laboratory Co	ntrol Sample			Run: VOA	5973A.I_170406A		04/06	/17 08:51
1,4-Dioxane		87.5	ug/L	1.0	88	70	130			
Lab ID:	MB-108173	Method Blank				Run: VOA5	973A.I_170406A		04/06	/17 09:12
1,4-Dioxane		ND	ug/L	1.0			_			
Lab ID:	C17030850-001AMS	Sample Matrix	Spike			Run: VOA5	973A.I_170406A		04/06	/17 09:55
1,4-Dioxane		194	ug/L	2.0	97	70	130			
Lab (D:	C17030850-001AMSD	Sample Matrix	Spike Duplicate			Run: VOA5	973A.I_170406A		04/06	/17 10:17
1,4-Dioxane		206	ug/L	2.0	103	70	130	6.0	20	



C17030850

# Work Order Receipt Checklist

# Colorado Analytical Laboratories Inc

Login completed by:	Corinne Wagner	Date Received: 3/28/2017											
Reviewed by:	Kasey Vidick		Received by: ckw										
Reviewed Date:	3/29/2017		Carrier name: Ground										
Shipping container/cooler in	good condition?	Yes 🖌	No 🗌	Not Present									
Custody seals intact on all sh	hipping container(s)/cooler(s)?	Yes	No 🗌	Not Present 🗹									
Custody seals intact on all sa	ample bottles?	Yes 🗌	No 🗌	Not Present 🗹									
Chain of custody present?		Yes 🗹	No 🗌										
Chain of custody signed whe	n relinguished and received?	Yes 🗸	No 🗌										
Chain of custody agrees with	sample labels?	Yes 🗹	No 🗌										
Samples in proper container/	bottle?	Yes 🗸	No 🗌										
Sample containers intact?		Yes 🗸	No 🗌										
Sufficient sample volume for	indicated test?	Yes 🗸	No 🗌										
Ail samples received within h (Exclude analyses that are co such as pH, DO, Res Cl, Sul	onsidered field parameters	Yes 🗹	No 🗌										
Temp Blank received in all st	hipping container(s)/cooler(s)?	Yes 🗌	No 🗸	Not Applicable									
Container/Temp Blank tempe	rature:	6,6°C On Ice -	From Field										
Water - VOA vials have zero	headspace?	Yes 🗹	No 🗌	No VOA vials submitted									
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable 🗹									

### **Standard Reporting Procedures:**

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### **Contact and Corrective Action Comments:**

None

	<ul> <li>Colorado Analytical</li> <li>Laboratories, inc.</li> </ul>	Brighton Lab	240 South Main Street Brighton, CO 80601	Lakewood Lab	Lakewood CO 80228	V Phone: 303-659-2313 Fax: 303-659-2315	www.coloradolah.com			UTAZO750										Seals Present Yes D No D UNY	Temp. 6 (%Clice ) 2 Sample Pres. Yes D No D	Received By: Date/Time:	NDX (3. H-1
	Project Name	170324007	Sterling Ranch MD	Task Number (Lab Use Only)	CAL Task No. 15-11 170324007	ţ	ARE	Disposal Date(Lab Use Only)				koiđ tei J	SOC3 Long 0 1,4-	¢79 978						Scals Pri	C/S Charge 🔲 Temp. (	Date/Time: Recei	
Chain of Custody Form	Bill To Information (If different from report to)	Company Name: Same	Contact Name:	Address:		City State Zip	Phone: Fax:		PO No.:			onO z	01 Co	Grai Or (						C/S lufo:	Deliver V	y: Date/Time: Relinquished By:	
		Company Name: <u>Colorado Analytical Laboratoy</u>	vielson			State CO Zip80601	Fax:303-659-2315	oloradolab.com			Soil	Sladge	Compost		I 70324007 Sterling Ranch MD					rgy Labs		Date/Time: Received By: 3/27/77	1100
	Report To Information	Company Name: Colori	Contact Name: Stuart Nielson	Address: P.O. Roy 507	240 S Main St		Phone:303-659-2313	Email: stuarmielson@coloradolab.com	Sample Collector:		Waste Water	Ground Water 🛛	Surface Water							Instructions: UPS to Energy Labs		Relinquished By:	MILLEVEN