



**Sterling Ranch Metropolitan District 1**

**WATER RESOURCES  
And  
WASTEWATER REPORT  
For  
Sterling Ranch Service Area**

**Updated  
February 2019**

**Prepared By:**



**CONSULTANTS, INC.**

**Executive Summary:**  
**Water Resources and Wastewater Report**  
**Sterling Ranch Metropolitan District #1**  
**February 28, 2019**

The original Water Report for Sterling Ranch Metropolitan District #1 was prepared and submitted in May of 2015. Since that time, several addendums have been filed, additional service area has been added, and advancement of platting activities has proceeded as well as construction of the physical water system.

Sterling Ranch Metropolitan District #1 (SRMD#1) will be the primary water/wastewater provider for not only areas within Sterling Ranch, but The Retreat at TimberRidge and The Ranch have been added as service areas and will be served via an overlapping district or Intergovernmental Agreement with SRMD#1.

**Water**

Sterling Ranch has issued “hard” commitments for six preliminary and final plats which are contained within the original Sterling Ranch Preliminary Plan Phase One area. “Hard” commitments are those commitments based on actual entitled preliminary or final plats. Sketch plans do not rise to the level of land use detail that allows for quantitative identification of water demand. The Phase One area commitment includes 726 SFE and 255.96 AF<sub>300 year</sub>. **All of the six preliminary and final plats processed or being processed to date are contained within the original Phase One commitment area.**

The Retreat at TimberRidge has submitted a preliminary plan that requires a commitment of 57.89 AF<sub>300 year</sub> for 164 lots that will be served by the central system. The commitment is satisfied by 48.73 AF<sub>300 year</sub> onsite water and 9.16 AF<sub>300 year</sub> transferred from SRMD#1.

The Ranch will also be served by SRMD#1. The Ranch has onsite water equivalent to 245 AF<sub>300 year</sub> but has not yet developed to either a preliminary or final plat stage so currently includes no active hard commitments. It should be noted that The Ranch and the 245 AF are within the Upper Black Squirrel Groundwater Basin and therefore the water must be used within The Ranch boundaries.

**SRMD#1 has adequate supply on a 300 year basis to meet all current hard commitments including Homestead #2 and Copper Chase.**

**Wastewater**

SRMD#1 has an agreement with Meridian Service Metropolitan District for the provision of wastewater services. The current contract allows for up to 5849 SFE of capacity.

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## **SECTION 1 INTRODUCTION**

The purpose of this report is to provide an accounting of current and contingent water rights and supply for Sterling Ranch Metropolitan District #1. This water report is for the Sterling Comprehensive Service Area which includes two additional service areas.

### *1.1 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 164 single family lots that are anticipated to be served by the Central Sterling system. The Retreat at TimberRidge has a total of 41 Rural sized lots to be served by single family wells and septic. 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.

## **SECTION 2 PROJECTION OF WATER NEEDS**

### *2.1 Expected Water User Characteristics:*

It is expected that urban style 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 and other developed areas in the Falcon area. That value is 0.353 AF per SFE annually.

### *2.2 Summary of Current Commitments*

The current level of hard service commitments is summarized as follows. It should be noted that Sketch Plans, long term potential demands and other non-entitled levels of planning are not considered until such a time as land use planning advances to a stage that known land use is identified. Table 1 identifies the existing commitments for service.

**Table 1**  
**Committed Water Demands for Sterling Ranch Service Area**

<u>Service Area</u>	<u>SFE</u>	<u>Water-Acre Feet per Yr</u>
Sterling Ranch Phase One * (commitment dated May 2015)	725	255.96
The Retreat	164	57.9

Sterling Ranch Phase One includes the following plat areas;

- Branding Iron at Sterling Ranch Filing #1
- Sterling Ranch #2
- Homestead at Sterling Ranch Filing No 1
- Homestead at Sterling Ranch Filing No 2
- Copper Chase at Sterling Ranch Filing No 1

**Total Annual Committed Demand of the Sterling Service Area is 313.86 Acre-Feet per Year**

### ***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 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.

**Table 2**  
***Sterling Ranch Metropolitan District***  
***Comprehensive Water Supply Inventory***  
***Currently Available Supply***

Land Formation/Aquifer	Finding/Determination/Decree	Tributary Status	Volume	Annual Allocation 100 Year	Annual Allocation 300 Year	Approved Well Locations	Notes	Saturated Sand Thickness	Specific Yield	
			Acre-Feet	A-F/Year	A-F/Year					
<b><i>Currently Available On-Site Sterling Water Legal Sources</i></b>										
Laramie Fox Hills	86-CW-19 08CW113	NT	53,900	539.00	179.67	KLF-1 - KLF-4	Under 1410 acres Under 41.44 acres, reduced to 1.44 acres	255	15%	
		NT	40	0.40	0.13					
Arapahoe	86-CW-18	NT	57500	575.00	191.67	KA-1 - KA-4	Under 1410 acres	240	17%	
<b><i>Currently Available On-Site Elkhorn (The Ranch) Water Legal Sources</i></b>										
Laramie Fox Hills		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			
<b><i>Currently Available On-Site Retreat Water Legal Sources (Note 1)</i></b>										
Laramie Fox Hills LFH (Relinquishment)	17CW3002 18CW3002	NT NT	6,440 -2,796				Under 225.97 acres	190	15%	
Arapahoe	17CW3002	NT	3,644	36.44	12.15		Under 225.97 acres	255	17%	
Laramie Fox Hills	16CW3095	NT	9,796	97.96	32.65		Under 35.28 Acres	190	15%	
Arapahoe Arapahoe (Relinquishment)	16CW3095 16CW3095	NT NT	1,005 1,499 -1,324	10.05	3.35		Under 35.28 Acres	250	17%	
Legal Supply: Phase 3, Phase 4 (excluding Lots 39-41)			175	1.75	0.58					
			14,620	146.20	48.73					
Augmentation (Dawson NNT)	18CW3002	Aug	2,796	27.96	9.32	29 Single Family Wells [Phase 2 (excluding Lots 11-12); Lots 39, 40 & 41 of Phase 4; & 5]	Replace a min of 34% of			
Legal Supply: Phase 2					9.32					
Augmentation (Dawson NNT)	16CW3095	Aug	1567.5	15.68	5.23		Replace actual depletions			
Legal Supply Phase 1					5.23	(Phase 1)				
<b><i>Currently Available Off-Site Ground Water Legal Sources</i></b>										
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					
<b><i>Currently Available Off-Site Sterling Water Legal Sources (Bar-X)</i></b>										
Laramie Fox Hills	93-CW-018	NT	55,200	552.00	184.00		Shamrock/Bar-x Rights	200	15%	
<b>Total Current Available 300-Year Water Supply</b>					<b>849.2</b>					
<i>Note 1.</i> The water listed in the shaded area will be used to serve single family wells and is not included in the Total Available for the Central System										

### 3.2 *Analysis of Adequacy of Current Legal Water Supply:*

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. It should be noted that the rights have certain limitations in locations of use. The rights by area are as follows;

- Sterling on and off site rights- 555.47 AF<sub>300 year</sub>
- Retreat at TimberRidge on site rights are 48.73 AF<sub>300 year</sub>
- The Ranch on site rights- 245.0 AF<sub>300 year</sub>

Of the Sterling rights, 9.16 AF<sub>300 year</sub> have been committed to the Retreat Service Area, leaving a net Sterling on-site availability of 546.31 AF<sub>300 year</sub>.

The on-site rights underlying The Ranch are within the Upper Black Squirrel and are limited in use area to The Ranch and the Upper Black Squirrel Designated Basin. Therefore the 245.0 AF<sub>300 year</sub> can only be used on the Ranch and not on Sterling ranch proper.

As of February 28, 2019, all of the Retreat water and 9.16 AF from Sterling are committed to the Retreat. As of February 28, 2019, of the net available 546.31 AF<sub>300 year</sub>, 255.96 AF<sub>300 year</sub>, have been dedicated to Sterling Ranch Phase One which includes all of the existing preliminary and final plats to date.

**This leaves a net uncommitted amount of water for the remainder of Sterling Ranch of 290.35 AF<sub>300 year</sub>.**

### 3.3 *Source of Physical 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.

### 3.4 *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 SRMD #1 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 Contract and Treatment*

The Sterling Ranch Metropolitan District has a perpetual contract with the Meridian Service Metropolitan District (MSMD) for the provision of wastewater treatment. The contract allows for the purchase of up to 5849 SFEs of wastewater capacity from MSMD. Wastewater projections are based on similar District historical use developed in the Falcon area. Average daily wastewater loads are expected to be roughly 172 gallons per day per single family residence.

From Table 1, the total committed wastewater taps are identical to those designated for water, which is 164 for the Retreat and 725 for Sterling Ranch. Consequently, Sterling has significant uncommitted capacity for wastewater.

### 4.2 *Wastewater Collection and Pumping*

All lands to be developed within the Sterling Ranch and the Retreat areas 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 completing construction of the Lift Station and Force Main to serve the area. The force main is constructed across the lower portion of The Ranch. From this point wastewater is intercepted by Meridian Service Metropolitan District.

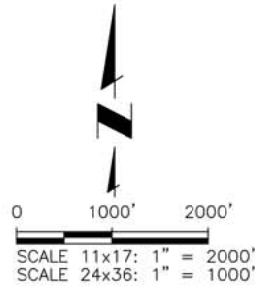


#### 4.3 *Wastewater Treatment*

MSMD owns 2.2 million gallons per day of wastewater capacity in the Black Squirrel Wastewater Facility. The plant operator, Cherokee Metropolitan District (CMD) has already approved connections, and systems associated with transport and treatment. MSMD and CMD are in compliance with their current COC issued by the Colorado Department of Public Health and Environment.

# *Appendix A*

J:\JDS-Hydro\Project Files\161 Morley Investments, LLC\161.04 Sterling Ranch\Drawings\16104\_Sterling\_Ranch.dwg  
2019/02/22 1:51 PM By: GUS



WATER STORAGE TANK

PRIVATE WELL AREA

THE RESERVE

STERLING RANCH

THE RANCH

**JDS-HYDRO** CONSULTANTS, INC.  
5540 TECH CENTER DR., SUITE 100  
COLORADO SPRINGS, COLORADO 80919  
(719) 227-0072  
DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO CONSULTANTS, INC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

STERLING RANCH METROPOLITAN DISTRICT

APPENDIX A  
WATER SERVICE AREAS

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
4				
5				
6				
7				

**EXHIBIT**

Project No.: 161.04  
Date: 02/22/19  
Design: JPM  
Drawn: GUS  
Check: JPM

SHEET OF

# *Appendix B*

Appendix B  
Sterling Ranch Metropolitan District #1  
Tabulation of Commitments vs. Supply within SRMD#1 Service Area

	Summary of Existing Available Supplies		
	Existing Available Supplies summarized from From Table 2	Acre-Feet 300 Year Non - UBS	Acre-Feet 300 - Year UBS *
Water Supply Summary	The Ranch Onsite (UBS)		245.00
	Sterling Ranch Onsite	371.47	Onsite LFH from Bar -X
	Sterling Ranch Offsite	184.00	
	Commit to Retreat	-9.16	
		546.31	
	Retreat Onsite (Central System Only) **	48.73	
Commit from Sterling Ranch	9.16		
	57.89		
Sterling Ranch Metropolitan District #1 Total AF			849.20

		Analysis of Water Commitments					
Development		Preliminary Commitments			Final Commitments		
		Commitment SFE	Supply / Commitment Acre-Feet	Letter or Summary Date	Commitment SFE	Commitment Acre-Feet	Letter or Summary Date
Supply	Retreat Available Supply from Above		57.89				
Commitments	The Retreat at TimberRidge Preliminary Plan (Central System Only) Final #1	164	-57.89	April 2018 Report			
Remaining Excess	Excess Supply for Retreat at TimberRidge Service Area		0.00				
Supply	Sterling Ranch Available Supply from Above		546.31				
Commitments	Sterling Ranch Preliminary Plan Phase One	726	-255.96	May 2015 Report/Summary			
	Tract BB (10,545) Branding Iron at Sterling Ranch Filing No. 1 Tract K (18,881) Branding Iron at Sterling Ranch Filing No. 2				51	17.85	Summary and Letter
	Sterling Ranch Filing #1 Sterling Ranch Filing #2				0 49	0 17.296	Tracts Only Summary and Letter
	Tract G (19,574) Homestead at Sterling Ranch Filing No. 1 Tract E (29,658) Homestead at Sterling Ranch Filing No. 2 Copper Chase at Sterling Ranch Filing No. 1				72	25,416	
						60.562	
Excess Supply	Excess Un-committed Water Supply for Sterling Ranch Service		290.35				
Supply	The Ranch Available Supply from Above		245.00				
Commitments	The Ranch Preliminary Plan <i>There are no Preliminary plans yet filed in The Ranch</i>	0	0				
Remaining Excess	The Ranch Service Area		245.00				

General Note 1. The Sterling Ranch Metropolitan District #1 is slated to serve multiple service areas through either IGA, overlapping Districts, or bulk service. Therefore, water accounting is performed on a comprehensive basis to assure that the District has adequate resources to provide for all service. Supplies are compared above within each separate service areas because certain water rights have limited use areas.

General Note 2; Commitments are not hard commitments until Preliminary Plan, No Sketch plans are considered here

General Note 3; If a final plat/plan is included in a preliminary plan or plat that has designated a commitment, the final plat is only summed against the original committed water

\* Water derived from within the UBS cannot be applied outside the UBS without separate export order.

\*\* Tabulation and supply for Retreat Private wells is noted on Table 2 for information only, it is not included as commitment or supply for central system purposes.

# *Appendix C*



Colorado Department  
of Public Health  
and Environment

**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**

Revised 6/13/2014

**IOC**

<b>Section I (Submitted or Completed by Public Water System)</b>		<b>Section II (Submitted or Completed by Certified Laboratory)</b>	
<b>Public Water System Information</b>		<b>Certified Laboratory Information</b>	
PWSID#: CO-0121724		Laboratory ID: CO 0015	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle		Contact Person: Customer Service Phone: 303-659-2313	
Comments:		Comments:	
Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>			

<b>Section III (Submitted or Completed by Public Water System)</b>			
Sample Date: 2/16/17	Collector: Stephanie Schwe	Facility ID (On Schedule):	Sample Pt ID (On Schedule):

<b>Section IV Inorganic Chemicals (Completed by Certified Laboratory)</b>				
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.
2/17/17	2/17/17	170217005-01	Fluoride	7681-49-4
			Analytical Method	MCL (mg/L)
			EPA 300.0	4
			Lab MRL (mg/L)	0.09
			Result (mg/L)	1.07

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

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



# Drinking Water Chain of Custody

**Report To Information:**  
 Company Name: JDS-Hydro  
 Contact Name: Mark Volle  
 Address: 545 E. Pikes Peak Ave  
Suite 200  
 City: CS State: CO Zip: 80903  
 Phone: 719-227-0072 Fax:  
 Email: mvolle@jashydro.com

**Bill To Information (if different from report to):**  
 Company Name: SR Water  
 Contact Name: Jim Morley  
 Address: 20 Boulder Crescent St  
 City: Colorado Spgs State: CO Zip: 80903  
 Phone: Fax:  
 Email: jmorley@srwater.com PO No.:

**State Form / Project Information:**  
 PWSID: CO-D121724  
 System Name: LFA-1  
 Address: NE 1/4 NW 1/4 S27  
 Tias R6SW 6 MAPH  
 City: Colorado Spgs State: CO Zip: 80908  
 County: El Paso  
 Compliance Samples: Yes  No   
 Send Forms to State: Yes  No

**LABORATORIES, INC.**  
**Brighton Lab**  
 240 South Main Street  
 Brighton, CO 80601  
**Lakewood Lab**  
 12860 W. Cedar Dr, Suite 100A  
 Lakewood CO 80228  
 Phone: 303-659-2313  
 Fax: 303-659-2315  
 www.coloradolab.com

CAL Task No. 170217005

ARF

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBS	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMS	522 HAAS	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC (DOC) (Circle)	SUVA, UV 254 (Circle)	Metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
		#1	3		X		X																							
		#2	3																											
		#3	3																											
		#4	3																											
		#5	3																											
		#6	3																											
		#7	3																											
		#8	3																											
		#9	3																											
		#10	3																											

Instructions:

Seals Present Yes  No  Headspace Yes  No

Delivered Via: Fedex CS Charged  Temp. 2 °C/°F  Sample Pres. Yes  No   
 Date/Time: 12/16/17 Received By: [Signature]  
 Reinquished By: [Signature] Date/Time: 12/16/17 Received By: [Signature]

PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses





Drinking Water Chain of Custody

Report To Information		Bill To Information (if different from report to)	
Company Name: JDS HYDRO	Company Name: SR WATER	PWSID: CO-0121724	
Contact Name: MARK VOLLE	Contact Name: JIM MORLEY	System Name: LFA-1	
Address: 545 E. BOXES PEAK AVE	Address: 20 BOWLER CRESCENT ST	Address: NE 1/4 NW 1/4 S27	
SUITE 300		T 125 R65W 6TH PM	
City/CO/SP65 State/CO Zip 80903	City/CO/SP65 State/CO Zip 80903	City/CO/SP65 State/CO Zip 80908	
Phone: 719-227-0072 Fax:	Phone: Fax:	County: EL PASO	
Email: mvalle@jds-hydro.com	Email: jmorley@3870@aol.com	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: STEPH SCHWENKE	PO No:	Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

CAL Task No. 170217005

ARF

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC's-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Inorganics	Alk/Lang. Index	TOC, DOC (Circle)	SVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Uranium	
2/16	8:37	#11	1																									
	9:50	#12	1																									
	9:50	#13	1																									
	9:43	#14	1																									
2/16	8:40	#15	1																									
	8:44	#16	1																									
	9:00	#17	1																									
	8:42	#18	1																									
	9:14	#19	3																									

Instructions: (34) + 504 Blank

Relinquished By: [Signature] Date/Time: 2/17/11 11:17 AM

Received By: [Signature] Date/Time: 2/17/11 12:58 PM

Relinquished Via: FedEx Date/Time: 2/17/11 0800

Seals Present Yes  No  Headspace Yes  No

C/S Charge  Temp. 2 °C / fcc Sample Pres. Yes  No

Received By: [Signature] Date/Time: [Signature]

Please attach results on state forms

PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses

Page 3 of 3



Colorado Department  
of Public Health  
and Environment

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

Revised 4/13/2015

**IOC**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
<b>Public Water System Information</b>		<b>Certified Laboratory Information</b>	
PWSID#: CO-0121724		Laboratory ID: CO 0015	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle		Contact Person: Customer Service Phone: 303-659-2313	
Comments:		Comments:	
Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>			

Section III (Supplied or Completed by Public Water System)	
Sample Date: 2/16/17	Collector: Stephanie Schw
Section IV Inorganic Chemicals (Completed by Certified Laboratory)	

Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	Analytical Method	MCL (mg/L)	Lab MRL (mg/L)	Result (mg/L)
2/17/17	2/22/17	170217005-01A	Antimony	7740-36-0	EPA 200.8	0.006	0.001	BDL
2/17/17	2/22/17	170217005-01A	Arsenic	7440-38-2	EPA 200.8	0.01	0.001	0.002
2/17/17	2/22/17	170217005-01A	Barium	7440-39-3	EPA 200.8	2	0.001	0.015
2/17/17	2/22/17	170217005-01A	Beryllium	7440-41-7	EPA 200.8	0.004	0.001	BDL
2/17/17	2/22/17	170217005-01A	Cadmium	7440-43-9	EPA 200.8	0.005	0.001	BDL
2/17/17	2/22/17	170217005-01A	Chromium	7440-47-3	EPA 200.8	0.1	0.001	0.001
2/17/17	2/22/17	170217005-01A	Mercury	7439-97-6	EPA 200.8	0.002	0.0001	BDL
2/17/17	2/22/17	170217005-01A	Nickel	7440-02-0	EPA 200.8	N/A	0.001	0.001
2/17/17	2/24/17	170217005-01A	Selenium	7782-49-2	EPA 200.8	0.05	0.001	BDL
2/17/17	2/22/17	170217005-01A	Sodium	7440-23-5	EPA 200.7	N/A	0.1	142.7
2/17/17	2/22/17	170217005-01A	Thallium	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 less than (<) may also used.

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



Drinking Water Chain of Custody

**Report To Information:**  
 Company Name: JDS-Hydro  
 Contact Name: Mark Volle  
 Address: 545 E. Pikes Peak Ave  
Suite 200  
 City: CS State: CO Zip: 80903  
 Phone: 719-227-0072 Fax:  
 Email: mvolle@jashydro.com  
 Sampler Name: Separe Schwente PO No:

**Bill To Information: (if different from report to)**  
 Company Name: SP Water  
 Contact Name: J. M. Morley  
 Address: 20 Boulder Crescent St  
 City: Colorado Spgs State: CO Zip: 80903  
 Phone: Fax:  
 Email: jmorley@spwater.com  
 Compliance Samples: Yes  No   
 Send Forms to State: Yes  No

**State Form / Project Information:**  
 PWSID: CO-0121724  
 System Name: LPH-1  
 Address: NE 1/4 NW 1/4 527  
Tias E65W 6 T4PH  
 City: Colorado Spgs State: CO Zip: 80908  
 County: El Paso  
 Compliance Samples: Yes  No   
 Send Forms to State: Yes  No

CAL Task No. 170217005

ARF

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	Total Coliform P/A	504.1 EDB/DCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	552 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index	TOC (DOC) (Circle)	SUVA, UV 254 (Circle)	Metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
		#1	3			X																									
		#2	3				X																								
		#3	3								X																				
		#4	3																												
		#5	1																												
		#6	2																												
		#7	2																												
		#8	2																												
		#9	2																												
		#10	1																												

**Instructions:**

Seals Present Yes  No  Headspace Yes  No

Delivered Via: Fedex C/S Charged:  Temp: 2 °C/°F Sample Pres. Yes  No

Relinquished By: [Signature] Date/Time: 12/10/08 Received By: [Signature] Date/Time: 12/11/08

170217005



Drinking Water Chain of Custody

Report To Information		Bill To Information (if different from report to)	
Company Name: JDS HYDRO	Company Name: SR WATER	State Form / Project Information	
Contact Name: MARK VOLLE	Contact Name: JIM MORLEY	PWSID: CO-0121724	System Name: LFH-1
Address: 545 E. FOXES PEAK AVE	Address: 20 BOUNDER CRESCENT ST	Address: NE 1/4 NW 1/4 S27	T 125 R65W 6 <sup>TH</sup> PM
SUITE 300	City CO 80903	City CO SP65	State CO Zip 80108
City CO SP65	State CO Zip 80903	County: EL PASO	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Phone: 719-227-0072	Fax:	Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Email: mvalle@jds-hydro.com	Email: jmorley@coanal.com	Please report results on stake forms	
Sampler Name: STEPH SCHWENKE	PO No.:		

CAL Task No. 170217005

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBS	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	522.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Inorganics	Alk/Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Uranium	Subcontract Analyses			
																													Headspace Yes <input type="checkbox"/> No <input type="checkbox"/>	Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
2/16	8:31	#11	1																													
	9:50	#12	1																													
	9:51	#13	1																													
	9:43	#14	1																													
2/16	8:40	#15	1																													
	8:44	#16	1																													
	9:00	#17	1																													
	8:42	#18	1																													
	9:09	#19	3																													
Instructions:		34 + 504 Blank																									Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/>					
Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		
[Signature]		2/16/17 12:58		[Signature]		2/17/17 11/17		[Signature]		2/17/17 11/17		[Signature]		2/17/17 11/17		[Signature]		2/17/17 11/17		[Signature]		2/17/17 11/17		[Signature]		2/17/17 11/17		[Signature]		2/17/17 11/17		

Instructions: 34 + 504 Blank

Delivered Via: FedEx

Date/Time: 2/17/17 11/17

Date/Time: 2/17/17 11/17

Date/Time: 2/17/17 11/17

Date/Time: 2/17/17 11/17

Date/Time: 2/17/17 11/17



**Hazen Research, Inc.**  
 4601 Indiana Street  
 Golden, CO 80403 USA  
 Tel: (303) 279-4501  
 Fax: (303) 276-1528

Lab Control ID: B16917  
 Received: Feb 17, 2017  
 Reported: Mar 20, 2017  
 Purchase Order No.  
 None Received

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

**ANALYTICAL REPORT**

**Stuart Nielson**  
**Colorado Analytical Laboratories, Inc.**

Lab Sample ID		B16917-001						
Customer Sample ID		170217005-01 - Lfh-1 - PWSID: CO0121724 - LFH-1 sampled on 02/16/17 @ 0906 by Stephanie Schwenke						
Parameter	Units	Code	Precision*		Detection	Method	Analysis Date / Time	Analyst
			Result	+/-	Limit			
Gross Alpha	pCi/L	T	0.0	0.0	1.5	SM 7110 B	3/2/17 @ 0840	LD
Gross Beta	pCi/L	T	0.0	2.1	2.2	SM 7110 B	3/2/17 @ 0840	LD
Radium-226	pCi/L	T	0.0	0.2	0.1	SM 7500-Ra B	3/3/17 @ 0825	LD
Radium-228	pCi/L	T	0.0	0.8	0.8	EPA Ra-05	3/14/17 @ 1257	JR
Radon	pCi/L	T	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



Colorado Department  
of Public Health  
and Environment

### Radionuclides Certified Laboratory Report Form

WQCD – Drinking Water CAS  
4300 Cherry Creek Drive South; Denver, CO 80246-1530  
Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us

Revision 6/13/2014

# RAD

#### Section I (Supplied or Completed by Public Water System)

##### Public Water System Information

PWS ID: CO0121724

System Name: Lfb-1

Contact Person:

Phone #:

Contact Person: Jessica Axen

Phone #: 303-279-4501

Do Samples Need to be  
Composited BY THE LAB?

Comments:

#### Section II (Supplied or Completed by Certified Laboratory)

##### Certified Laboratory Information

Laboratory ID: CO 00008

Laboratory Name: Hazen Research, Inc.

#### Section III (Supplied or Completed by Public Water System)

Sample Date: 02/16/2017

Collector: Stephanie Schwenke

Facility ID (On Schedule):

Sample Pt ID (On Schedule):

#### Section IV Radionuclides (Supplied or Completed by Certified Laboratory)

Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name (Code)	CAS No.	Analytical Method	MCL	Lab MRL	Result
02/17/2017	03/02/2017	B16917-001	Gross Alpha Including Uranium (4002)	12587-46-1	SM 7110 B	N/A	1.5	0.0(±0.0)
			Combined Uranium (4006)	7440-61-1	D2907-97	30 ug/L		
02/17/2017	03/03/2017	B16917-001	Radium -226 (4020)	13982-63-3	SM 7500-Ra B	N/A	0.1	0.0(±0.2)
02/17/2017	03/14/2017	B16917-001	Radium -228 (4030)	15262-20-1	EPA Ra-05	N/A	0.8	0.0(±0.8)
02/17/2017	03/02/2017	B16917-001	Gross Beta (4100)	12587-47-2	SM 7110 B	50 pCi/L*	2.2	0.0(±2.1)
			Total Dissolved Solids (1930)		EPA 160.3	N/A		

\*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.

#### Section V Calculated Values

Calculated Value	Calculated Value
Gross Alpha Excluding Uranium (4000)	15 pCi/L
Combined Radium {-226 & -228} (4010)	5 pCi/L

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

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

ug/L: Micrograms per Liter

pCi/L: Pico-curies per Liter

MCL: Maximum Contaminant Level

**Drinking Water Chain of Custody**

FBA EX



**Colorado Analytical Laboratories, Inc.**  
 Brighton Lab  
 240 South Main Street  
 Brighton, CO 80601  
 Lakewood Lab  
 12860 W. Cedar Dr, Suite 101  
 Lakewood CO 80228  
 Phone: 303-659-2313  
 Fax: 303-659-2315  
[www.coloradolab.com](http://www.coloradolab.com)

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: Colorado Analytical		Company Name: Same As Report To		PWSID: CO0121724	
Contact Name: Stuart Nielson		Contact Name: _____		System Name: Lfh-1	
Address: 240 S. Main St		Address: _____		System Address: _____	
City: Brighton State: CO Zip: 80601		City: _____ State: _____ Zip: _____		City: Colorado Spgs State: CO Zip: 80908	
Phone: 303-659-2313 Fax: 303-659-2315		Phone: _____ Fax: _____		County: El Paso	
Email: stuartnielson@coloradolab.com		Email: _____		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: Stephanie Schwenke		PO No.: _____		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Task Number		PHASE I, II, V Drinking Water Analyses (check analysis)																	Sub-contract Analyses											
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 THMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
02/16/17	0906	170217005-01 LFH-1	6																											
		L FARM BOTTLES																												
Instructions: Please print on state forms but do not submit to CDPHE. Thanks!			C/S Info:																	Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/> Headspace Yes <input type="checkbox"/> No <input type="checkbox"/>										
																				Temp. °C / Ice Sample Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>										
Relinquished By: <i>J Adams</i>			Relinquished By: <i>FedEx SD</i>																	Received By: <i>[Signature]</i>										
Date/Time: 2/17/16 11:00			Date/Time: 02/17/2017																	Date/Time: 1:30										

*REC'D PRES @ HAZEN*

*To: Hazen*

## Analytical Results

**TASK NO: 170217005**

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

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

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

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

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

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	155.5 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	2/20/17	VDB
Calcium as CaCO <sub>3</sub>	6.3 mg/L	SM 3111-B	0.1	2/24/17	MBN
Carbonate	4.0 mg/L as CaCO <sub>3</sub>	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 CaCO <sub>3</sub>	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 ml = Most Probable Number Index/ 100 ml  
 Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY





**Drinking Water Chain of Custody**

**Report To Information**  
 Company Name: JDS-Hydro  
 Contact Name: Mark Valle  
 Address: 545 E. Pikes Peak Ave  
Suite 200  
 City: CS State: CO Zip: 80903  
 Phone: 719-227-0072 Fax:  
 Email: mvalle@jds-hydro.com  
 Sampler Name: Sephanie Schwente PO No.:

**Bill To Information (If different from report to)**  
 Company Name: SP Water  
 Contact Name: J. M. Morley  
 Address: 20 Boulder Crescent St  
 City: Colorado Spgs State: CO Zip: 80908  
 Phone: Fax:  
 Email: jmorley@spwater.com  
 Sampler Name: Stephanie Schwente PO No.:

**State Form / Project Information**  
 PWSID: CO-0121724  
 System Name: LFI-1  
 Address: NE 1/4 NW 1/4 S27  
T12S R6SW 6 T4RN  
 City: Colorado Spgs State: CO Zip: 80908  
 County: El Paso  
 Compliance Samples: Yes  No   
 Send Forms to State: Yes  No

**PHASE I, II, V Drinking Water Analyses (check analysis)**

ARF	Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	552.2 HAA5	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	Metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium		
			#1	3		X		X																									
			#2	3								X																					
			#3	3																													
			#4	3																													
			#5	1																													
			#6	3																													
			#7	3																													
			#8	1																													
			#9	3																													
			#10	1		X																											

**Instructions:**

Seals Present Yes  No  Headspace Yes  No   
 Delivered Via: Fedex Date/Time: 12/17/08  
 Relinquished By: [Signature] Date/Time: 12/17/08  
 Received By: [Signature] Date/Time: 12/17/08  
 Temp. 2 °C/°F  
 Sample Pres. Yes  No   
 Received By: [Signature] Date/Time: 12/17/08

# Drinking Water Chain of Custody



**Brighton Lab**  
 240 South Main Street  
 Brighton, CO 80601

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

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

<b>Report To Information</b> Company Name: <u>JDS HYDRO</u> Contact Name: <u>MARK VOLLE</u> Address: <u>545 E. POKES PEAK AVE</u> <u>SUITE 300</u> City/CO/SP6S State/CO Zip: <u>80903</u> Phone: <u>719-227-0072</u> Fax: Email: <u>mvolle@jds-hydro.com</u> Sampler Name: <u>STEPH SCHWENKE</u>		<b>Bill To Information (if different from report to)</b> Company Name: <u>SR WATER</u> Contact Name: <u>JIM MORLEY</u> Address: <u>20 BOWLER CRESCENT ST</u> City/CO/SP6S State/CO Zip: <u>80903</u> Phone: Fax: Email: <u>jmorley4@srwater.com</u> PO No.:	
<b>State Form / Project Information</b> PWSID: <u>CO-0121724</u> System Name: <u>LFH-1</u> Address: <u>NE 1/4 NW 1/4 S27</u> <u>T125 R65W 6TH PM</u> City/CO/SP6S State/CO Zip: <u>80908</u> County: <u>EL PASO</u> Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Please attach results on state forms	

CAL Task No. 170217005		PHASE I, II, V Drinking Water Analyses (check analysis)														Subcontract Analyses																	
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBS	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbinates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Inorganics	Alk/Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Radon-Glycidide	Uranium				
2/16	8:37	#11	1																														
	9:50	#12	1																														
	9:51	#13	1																														
	9:43	#14	1																														
2/16	8:40	#15	1																														
	8:44	#16	1																														
	9:00	#17	1																														
	5:42	#18	1																														
	9:19	#19	3																														
Instructions:		(34) + 504 Blank Delivered Via: <u>Fedex</u> Relinquished By: <u>[Signature]</u> Date/Time: <u>2/17/11</u> Received By: <u>[Signature]</u> Date/Time: <u>2/17/11</u> Temp: <u>2</u> °C / <u>36</u> °F Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Headspace Yes <input type="checkbox"/> No <input type="checkbox"/> C/S Charge <input type="checkbox"/> Temp. <u>2</u> °C / <u>36</u> °F Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date/Time: <u>2/17/11</u> Received By: <u>[Signature]</u> Date/Time: <u>2/17/11</u>																															



Colorado Department  
of Public Health  
and Environment

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

Revised 4/13/2015

**NOX**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
<b>Public Water System Information</b>		<b>Certified Laboratory Information</b>	
PWSID#: CO-0121724		Laboratory ID: CO 0015	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #: 719-227-0072	Contact Person: Customer Service	Phone: 303-659-2313
Comments:			

Section III (Supplied or Completed by Public Water System)				Section IV (Supplied or Completed by Certified Laboratory)								
Sample Date	Collector	Facility ID On Schedule	Sample Pt. ID On Schedule	Confirmation?	Lab Receipt Date	Lab Analysis Date	Sample ID #	Analyte	Analytical Method	MCL (mg/L)	Lab MRI. (mg/L)	Result (mg/L)
2/16/17	ephanie Schwenk			<input type="checkbox"/>	2/17/17	2/17/17	170217005-01	Nitrate Nitrogen	EPA 300.0	10	0.1	BDL
2/16/17	ephanie Schwenk			<input type="checkbox"/>	2/17/17	2/17/17	170217005-01	Nitrite Nitrogen	EPA 300.0	1	0.1	BDL

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

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



Drinking Water Chain of Custody

**Report To Information:**  
 Company Name: JDS-Hydro  
 Contact Name: Mark Volle  
 Address: 545 E. Pikes Peak Ave  
Suite 200  
 City: CS State: CO Zip: 80903  
 Phone: 719-227-0022 Fax:  
 Email: mvolle@jds-hydro.com  
 Sampler Name: Stephanie Schwente PO No.:

**Bill To Information (If different from report to)**  
 Company Name: SP Water  
 Contact Name: Jim Morley  
 Address: 20 Boulder Crescent St  
 City: Colorado Springs State: CO Zip: 80908  
 Phone: Fax:  
 Email: jmorley@spwater.com  
 PO No.:

**State Form / Project Information**  
 PWSID: CO-0101724  
 System Name: LFA-1  
 Address: NE 1/4 NW 1/4 327  
Tias E65W 6 T4N  
 City: Colorado Springs State: CO Zip: 80908  
 County: El Paso  
 Compliance Samples: Yes  No   
 Send Forms to State: Yes  No

**Brighton Lab**  
 240 South Main Street  
 Brighton, CO 80601

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

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

CAL Task No. 170217005		PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses																		
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 THMs	552.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	Metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium				
		#1	3			X		X																											
		#2	3								X																								
		#3	3																																
		#4	1																																
		#5	1																																
		#6	2																																
		#7	2																																
		#8	2																																
		#9	2																																
		#10	1			X																													

**Instructions:**

Seals Present Yes  No  Headspace Yes  No

Temp: 72 °C / 2 °F

Received By: [Signature] Date/Time: 12/11/08

Reinquisitioned By: [Signature] Date/Time: 12/11/08

Delivered Via: Fedex

C/S Charged:  Date/Time: 12/11/08

Sample Pres. Yes  No  Date/Time: 12/11/08



Drinking Water Chain of Custody

**Report To Information**  
 Company Name: JDS HYDRO  
 Contact Name: MARK VOLLE  
 Address: 545 E. BIKES PEAK AVE  
SUITE 300  
 City: COLO SPRS State: CO Zip: 80903  
 Phone: 719-227-0072 Fax:  
 Email: mvalle@jdshydro.com  
 Sampler Name: STEPH SCHWENKE

**State Form / Project Information**  
 PWSID: CO-0121724  
 System Name: LFH-1  
 Address: NE 1/4 NW 1/4 S27  
T12S R65W 6TH PM  
 City: COLO SPRS State: CO Zip: 80108  
 County: EL PASO  
 Compliance Samples: Yes  No   
 Send Forms to State: Yes  No

**Bill To Information (if different from report to)**  
 Company Name: SR WATER  
 Contact Name: JIM MORLEY  
 Address: 20 BOULDER CRESCENT ST  
 City: COLO SPRS State: CO Zip: 80903  
 Phone: Fax:  
 Email: jmorley@srwater.com  
 PO No.:

*Please report results on state forms*

CAL Task No. 170217005

ARF

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMS	522.2 HAAs	Lead/Copper	Nitrate	Nitrite	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Tridecyl Glycolide	Uranium	
7/16	8:31	#11	3																										
7/16	9:50	#12	1																										
7/16	9:43	#13	1																										
7/16	8:40	#14	1																										
7/16	8:44	#15	1																										
7/16	9:00	#16	1																										
7/16	5:42	#17	1																										
7/16	9:19	#18	1																										
		#19	3																										

**Instructions:** 347 504 Blank

**PHASE I, II, V Drinking Water Analyses (check analysis)**

**Subcontract Analyses**

Seals Present Yes  No  Headspace Yes  No   
 Delivered Via: Fedex Temp. 2 °C/°F Sample Pres. Yes  No   
 Relinquished By: [Signature] Date/Time: 7/17/08 Received By: [Signature] Date/Time: 7/17/08



Colorado Department  
of Public Health  
and Environment

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

Revised 4/13/2015

**VOC/SOC**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO-0121724		Laboratory ID: CO 00063	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Voile		Contact Person: Customer Service Phone: 303-659-2313	
Comments:		Comments:	
Do Samples Need to be Composited BY THE LAB? <input type="checkbox"/>			

Section V (Supplied or Completed by Public Water System)		Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)		Section VII Organic Chemicals (Supplied or Completed by Certified Laboratory)				
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
2/17/17	2/24/17	170217005-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
2/17/17	3/1/17	170217005-01G	2,4-D	94-75-7	EPA 515.4	70	0.1	BDL
2/17/17	3/1/17	170217005-01G	2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL
2/17/17	2/23/17	170217005-01H	Aldicarb	15972-60-8	EPA 525.2	2	0.2	BDL
2/17/17	3/2/17	170217005-01I	Aldicarb	116-06-3	EPA 531.1	N/A	0.6	BDL
2/17/17	3/2/17	170217005-01I	Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL
2/17/17	3/2/17	170217005-01I	Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL
2/17/17	2/23/17	170217005-01III	Atrazine	1912-24-9	EPA 525.2	3	0.1	BDL
2/17/17	2/23/17	170217005-01H	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
2/17/17	3/2/17	170217005-01I	Carbofuran	1563-66-2	EPA 531.1	40	0.9	BDL
2/17/17	2/24/17	170217005-01F	Chlordane	57-74-9	EPA 505	2	0.2	BDL
2/17/17	3/1/17	170217005-01G	Dalapon	75-99-0	EPA 515.4	200	1	BDL
2/17/17	2/23/17	170217005-01III	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	0.6	BDL
2/17/17	2/23/17	170217005-01H	Di(2-ethylhexyl)phthalate	117-81-7	EPA 525.2	6	0.6	BDL
2/17/17	3/1/17	170217005-01G	Dinosob	85-85-7	EPA 515.4	7	0.2	BDL
2/17/17	2/23/17	170217005-01K	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
2/17/17	2/23/17	170217005-01J	Endothall	145-73-3	EPA 548.1	100	9	BDL
2/17/17	2/24/17	170217005-01F	Endrin	72-20-8	EPA 505	2	0.01	BDL
2/17/17	2/24/17	170217005-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL
2/17/17	2/23/17	170217005-01H	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
2/17/17	2/24/17	170217005-01F	Heptachlor epoxide	1024-57-3	EPA 505	0.2	0.02	BDL

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

PWSID#: CO-0121724		Section V (Supplied or Completed by Public Water System)						
Sample Date:	2/16/17	Collector:	Stephanie Schwenk	Facility ID (On Schedule):	Sample Pt ID (On Schedule):			
Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)		Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
2/17/17	2/24/17	170217005-01F	Hexachlorobenzene	118-74-1	EPA 505	1	0.1	BDL
2/17/17	2/24/17	170217005-01F	Hexachlorocyclopentadiene	77-47-4	EPA 505	50	0.1	BDL
2/17/17	2/24/17	170217005-01F	Lindane	58-89-9	EPA 505	0.2	0.02	BDL
2/17/17	2/24/17	170217005-01F	Methoxychlor	72-43-5	EPA 505	40	0.1	BDL
2/17/17	3/2/17	170217005-01I	Oxamyl	23135-22-0	HPA 531.1	200	1	BDL
2/17/17	3/1/17	170217005-01G	Pentachlorophenol	87-86-5	EPA 515.4	1	0.04	BDL
2/17/17	3/1/17	170217005-01G	Picloram	1918-02-1	EPA 515.4	500	0.1	BDL
2/17/17	2/24/17	170217005-01F	Polychlorinated biphenyl's	1336-36-3	EPA 505	0.5	0.1	BDL
2/17/17	2/23/17	170217005-01H	Simazine	122-34-9	EPA 525.2	4	0.07	BDL
2/17/17	2/24/17	170217005-01F	Toxaphene	8001-35-2	EPA 505	3	1	BDL

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

170217005-01

2/2  
3/6/17



**Drinking Water Chain of Custody**

**Report To Information:**  
 Company Name: JDS-Hydro  
 Contact Name: Mark Volle  
 Address: 545 E. Pikes Peak Ave  
Suite 300  
 City: CS State: CO Zip: 80903  
 Phone: 719-227-0072 Fax:  
 Email: mvolle@jds-hydro.com  
 Sampler Name: Stephanie Schwente PO No.:

**State Form / Project Information:**  
 PWSID: CO-D101724  
 System Name: LFA-1  
 Address: NE 1/4 NW 1/4 527  
Tias E65W 6 T4N  
 City: Colo Spgs State: CO Zip: 80908  
 County: El Paso  
 Compliance Samples: Yes  No   
 Send Forms to State: Yes  No

**Brighton Lab**  
 240 South Main Street  
 Brighton, CO 80601

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

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

CAL Task No. 170217005		PHASE I, II, V Drinking Water Analyses (check analysis)														Subcontract Analyses																	
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/DBP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC (DOC) (Circle)	SUVA, UV254 (Circle)	Metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium		
		#1	3			X		X																									
		#2	3																														
		#3	3																														
		#4	3																														
		#5	3																														
		#6	3																														
		#7	3																														
		#8	3																														
		#9	3																														
		#10	3																														

Instructions:

Seals Present Yes  No  Headspace Yes  No   
 C/S Charged  No  Temp. 2 °C / fcc  Sample Pres. Yes  No   
 Delivered Via: Fedex Date/Time: 2/17/17 0800  
 Relinquished By: [Signature] Received By: [Signature] Date/Time: 2/17/17 0800

Relinquished By: [Signature] Date/Time: 2/17/17 0800  
 Received By: [Signature] Date/Time: 2/17/17 0800





## Analytical Results

TASK NO: 170217005

Report To: Mark Voile

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

Bill To: Jim Morley

Company: SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

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

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

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

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	5.8 mg/L	EPA 300.0	0.1 mg/L	2/17/17	LJG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	2/24/17	VDB
E-Coli	< 1 mpn/100ml	Colitert	1 mpn/100ml	2/18/17	VDB
Sulfate	142.1 mg/L	EPA 300.0	0.1 mg/L	2/17/17	LJG
Total Coliform	93 mpn/100ml	Colitert	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
<b>Total</b>					
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
Copper	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	1.5 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 ml = Most Probable Number Index/ 100 ml  
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

## Analytical Results

**TASK NO: 170217005**

**Report To:** Mark Voile

**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley

**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

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

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

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

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Total</u> Zinc	0.005 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD

**Abbreviations/ References:**

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



DATA APPROVED FOR RELEASE BY







## ANALYTICAL SUMMARY REPORT

March 02, 2017

Colorado Analytical Laboratories Inc  
PO Drawer 507  
Brighton, CO 80601

Work Order: C17020566      Quote ID: C4542 - 624, 625, 1,4-Dioxane  
Project Name: 170217005 LFH-1 CO-0121724

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

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C17020566-001	170217005-01 LFH-1	02/16/17 0:00	02/21/17	Drinking Water	Azeotropic Distillation 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:

  
Randy Horton, Project Manager

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



**CLIENT:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Work Order:** C17020566

**Report Date:** 03/02/17

## CASE NARRATIVE

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



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

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

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

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>VOCS BY AZEOTROPIC DISTILLATION</b>							
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.							
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Acetone	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Acetonitrile	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Acrolein	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Acrylonitrile	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Benzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromochloromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromodichloromethane	ND	ug/L		1.0		E624	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		1.0		E624	02/24/17 19:19 / eli-b
Carbon disulfide	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Carbon tetrachloride	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chlorodibromomethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
2-Chloroethyl vinyl ether	ND	ug/L		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	ND	ug/L		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	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2-Dichlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,3-Dichlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,4-Dichlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Dichlorodifluoromethane	ND	ug/L		1.0		E624	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	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1-Dichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
cis-1,2-Dichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
trans-1,2-Dichloroethane	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	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
2,2-Dichloropropane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1-Dichloropropene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
cis-1,3-Dichloropropene	ND	ug/L		1.0		E624	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** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.





### 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  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Methyl tert-butyl ether (MTBE)	ND	ug/L		2.0		E624	02/24/17 19:19 / eli-b
Methyl ethyl ketone	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Methyl isobutyl ketone	ND	ug/L		10		E624	02/24/17 19:19 / eli-b
Methylene chloride	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Naphthalene	ND	ug/L		0.50		E624	02/24/17 19:19 / eli-b
Styrene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Tetrachloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Toluene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Trichloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,1-Trichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,2-Trichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Trichlorofluoromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2,3-Trichloropropane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Vinyl Acetate	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Vinyl chloride	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
m+p-Xylenes	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
o-Xylene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Xylenes, Total	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Surr: 1,2-Dichloroethane-d4	76.0	%REC		71-139		E624	02/24/17 19:19 / eli-b
Surr: p-Bromofluorobenzene	92.0	%REC		80-127		E624	02/24/17 19:19 / eli-b
Surr: Toluene-d8	94.0	%REC		80-123		E624	02/24/17 19:19 / eli-b
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
Acenaphthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Acenaphthylene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Anthracene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Azobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzidine	ND	ug/L		10		E625	02/28/17 13:13 / eli-b
Benzo(a)anthracene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(a)pyrene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(b)fluoranthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(g,h,i)perylene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(k)fluoranthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
4-Bromophenyl phenyl ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Butylbenzylphthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
4-Chloro-3-methylphenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(-2-chloroethoxy)Methane	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(-2-chloroethyl)Ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(2-chloroisopropyl)Ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2-Chloronaphthalene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2-Chlorophenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b

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

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



### 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  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
4-Chlorophenyl phenyl ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Chrysene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Diethyl phthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Di-n-butyl phthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
1,2-Dichlorobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
1,3-Dichlorobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
1,4-Dichlorobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2,4-Dichlorophenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Dimethyl phthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Di-n-octyl phthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2,4-Dimethylphenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
4,6-Dinitro-2-methylphenol	ND	ug/L		50		E625	02/27/17 19:27 / eli-b
2,4-Dinitrophenol	ND	ug/L		50		E625	02/27/17 19:27 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2,6-Dinitrotoluene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(2-ethylhexyl)Phthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Fluoranthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Fluorene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Hexachlorobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Hexachlorobutadiene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Hexachloroethane	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Indeno(1,2,3-cd)pyrene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Isophorone	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2-Nitrophenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
4-Nitrophenol	ND	ug/L		50		E625	02/27/17 19:27 / eli-b
Naphthalene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Nitrobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Pentachlorophenol	ND	ug/L		50		E625	02/27/17 19:27 / eli-b
Phenanthrene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Phenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Pyrene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
1,2,4-Trichlorobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2,4,6-Trichlorophenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Surr: 2-Fluorobiphenyl	59.0	%REC		28-107		E625	02/27/17 19:27 / eli-b
Surr: 2-Fluorophenol	34.0	%REC		20-56		E625	02/27/17 19:27 / eli-b
Surr: Nitrobenzene-d5	63.0	%REC		32-94		E625	02/27/17 19:27 / eli-b
Surr: Phenol-d5	33.0	%REC		19-45		E625	02/27/17 19:27 / eli-b

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

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



### 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  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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#### SEMI-VOLATILE ORGANIC COMPOUNDS

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

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

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# 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
<b>Method: E624</b>							Analytical Run: R275391		
<b>Lab ID:</b> ccv022417	Continuing Calibration Verification Standard						02/24/17 09:51		
Styrene	4.76	ug/L	0.50	95	70	130			
Tetrachloroethene	4.60	ug/L	0.50	92	70	130			
1,1,1,2-Tetrachloroethane	4.24	ug/L	0.50	85	70	130			
1,1,2,2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130			
Toluene	4.96	ug/L	0.50	99	70	130			
Trichloroethene	4.80	ug/L	0.50	96	70	130			
1,1,1-Trichloroethane	3.75	ug/L	0.50	75	70	130			
1,1,2-Trichloroethane	4.76	ug/L	0.50	95	70	130			
Trichlorofluoromethane	3.34	ug/L	0.50	67	70	130			S
1,2,3-Trichloropropane	4.20	ug/L	0.50	84	70	130			
Vinyl Acetate	4.56	ug/L	1.0	91	70	130			
Vinyl chloride	4.84	ug/L	0.50	97	70	130			
m+p-Xylenes	9.76	ug/L	0.50	98	70	130			
o-Xylene	4.76	ug/L	0.50	95	70	130			
Xylenes, Total	14.5	ug/L	0.50	97	70	130			
Surr: 1,2-Dichloroethane-d4			0.50	74	71	139			
Surr: p-Bromofluorobenzene			0.50	88	80	127			
Surr: Toluene-d8			0.50	92	80	123			

<b>Method: E624</b>							Batch: R275391		
<b>Lab ID:</b> lcs022417	Laboratory Control Sample						Run: 5971A.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			
Bromodichloromethane	4.44	ug/L	0.50	89	74	128			
Bromoform	4.36	ug/L	0.50	87	66	128			
Bromomethane	5.76	ug/L	0.50	115	51	123			
Carbon disulfide	4.92	ug/L	0.50	98	46	145			
Carbon tetrachloride	3.80	ug/L	0.50	76	75	125			
Chlorobenzene	4.92	ug/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	2.74	ug/L	1.0	55	36	144			
Chloroform	4.40	ug/L	0.50	88	68	124			
Chloromethane	4.64	ug/L	0.50	93	53	146			
2-Chlorotoluene	5.04	ug/L	0.50	101	75	131			
4-Chlorotoluene	4.68	ug/L	0.50	94	74	129			
1,2-Dibromoethane	4.40	ug/L	0.50	88	76	124			
Dibromomethane	4.76	ug/L	0.50	95	77	125			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# 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
<b>Method: E624</b>							<b>Batch: R275391</b>		
<b>Lab ID:</b> lcs022417	<b>Laboratory Control Sample</b>			<b>Run: 5971A.L_170224A</b>			<b>02/24/17 10:31</b>		
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	81	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	126			
1,1,1-Trichloroethane	3.73	ug/L	0.50	75	63	120			
1,1,2-Trichloroethane	4.68	ug/L	0.50	94	78	124			
Trichlorofluoromethane	3.30	ug/L	0.50	66	72	120			S
1,2,3-Trichloropropane	4.04	ug/L	0.50	81	64	138			
Vinyl Acetate	4.08	ug/L	1.0	82	31	124			
Vinyl chloride	5.12	ug/L	0.50	102	58	140			
m+p-Xylenes	9.84	ug/L	0.50	98	67	139			
o-Xylene	4.84	ug/L	0.50	97	74	135			
Xylenes, Total	14.7	ug/L	0.50	98	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	72	71	139			
Surr: p-Bromofluorobenzene			0.50	87	80	127			
Surr: Toluene-d8			0.50	92	80	123			
<b>Lab ID:</b> blk022417	<b>Method Blank</b>			<b>Run: 5971A.L_170224A</b>			<b>02/24/17 11:30</b>		
Acetone	ND	ug/L	20						
Acetonitrile	ND	ug/L	20						

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R275391
Lab ID: blk022417	Method Blank								Run: 5971A.L_170224A 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					
Chloroform	ND	ug/L		0.50					
Chloromethane	ND	ug/L		0.50					
2-Chlorotoluene	ND	ug/L		0.50					
4-Chlorotoluene	ND	ug/L		0.50					
1,2-Dibromoethane	ND	ug/L		0.50					
Dibromomethane	ND	ug/L		0.50					
1,2-Dichlorobenzene	ND	ug/L		0.50					
1,3-Dichlorobenzene	ND	ug/L		0.50					
1,4-Dichlorobenzene	ND	ug/L		0.50					
Dichlorodifluoromethane	ND	ug/L		0.50					
1,1-Dichloroethane	ND	ug/L		0.50					
1,2-Dichloroethane	ND	ug/L		0.50					
1,1-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-Dichloropropene	ND	ug/L		0.30					
trans-1,3-Dichloropropene	ND	ug/L		0.30					
Ethylbenzene	ND	ug/L		0.50					
Methyl tert-butyl ether (MTBE)	ND	ug/L		0.50					
Methyl 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.

ND - Not detected at the reporting 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	
<b>Method: E624</b> <span style="float: right;">Batch: R275391</span>										
<b>Lab ID: blk022417</b>	Method Blank		Run: 5971A.I_170224A				02/24/17 11:30			
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50							
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50							
Toluene	ND	ug/L	0.50							
Trichloroethene	ND	ug/L	0.50							
1,1,1-Trichloroethane	ND	ug/L	0.50							
1,1,2-Trichloroethane	ND	ug/L	0.50							
Trichlorofluoromethane	ND	ug/L	0.50							
1,2,3-Trichloropropane	ND	ug/L	0.50							
Vinyl Acetate	ND	ug/L	1.0							
Vinyl chloride	ND	ug/L	0.40							
m+p-Xylenes	ND	ug/L	0.50							
o-Xylene	ND	ug/L	0.50							
Xylenes, Total	ND	ug/L	0.50							
Surr: 1,2-Dichloroethane-d4			0.50	74	71	139				
Surr: p-Bromofluorobenzene			0.50	90	80	127				
Surr: Toluene-d8			0.50	94	80	123				
<b>Lab ID: b17021110-001bms</b> <span style="float: right;">Sample Matrix Spike</span> <span style="float: right;">Run: 5971A.I_170224A</span> <span style="float: right;">02/24/17 20:47</span>										
Acrolein	ND	ug/L	20	0	16	233			S 1	
Acrylonitrile	48.8	ug/L	20	98	76	127				
2-Chloroethyl vinyl ether	3.44	ug/L	1.0	69	36	144				
Surr: 1,2-Dichloroethane-d4			0.50	80	71	139				
Surr: p-Bromofluorobenzene			0.50	95	80	127				
Surr: Toluene-d8			0.50	100	80	123				
- 1 = This is a known very reactive compound. The recovery of this compound was normal in the Laboratory Control Sample (LCS). The compound appears to have reacted with the sample matrix.										
<b>Lab ID: b17021110-001bmsd</b> <span style="float: right;">Sample Matrix Spike Duplicate</span> <span style="float: right;">Run: 5971A.I_170224A</span> <span style="float: right;">02/24/17 21:16</span>										
Acrolein	ND	ug/L	20	0	16	233			20 S 1	
Acrylonitrile	48.8	ug/L	20	98	76	127	0.0	20		
2-Chloroethyl vinyl ether	3.66	ug/L	1.0	73	36	144	6.1	20		
Surr: 1,2-Dichloroethane-d4			0.50	81	71	139				
Surr: p-Bromofluorobenzene			0.50	96	80	127				
Surr: Toluene-d8			0.50	99	80	123				
- 1 = This is a known very reactive compound. The recovery of this compound was normal in the Laboratory Control Sample (LCS). The compound appears to have reacted with the sample matrix.										
<b>Lab ID: b17021110-001bms</b> <span style="float: right;">Sample Matrix Spike</span> <span style="float: right;">Run: 5971A.I_170224A</span> <span style="float: right;">02/24/17 18:21</span>										
Acetone	40.4	ug/L	20	81	55	144				
Acetonitrile	66.0	ug/L	20	132	54	142				
Benzene	4.60	ug/L	0.50	92	73	122				
Bromobenzene	4.60	ug/L	0.50	92	74	129				
Bromochloromethane	4.56	ug/L	0.50	91	66	120				
Bromodichloromethane	4.36	ug/L	0.50	87	74	128				
Bromoform	4.40	ug/L	0.50	88	66	128				
Bromomethane	5.88	ug/L	0.50	118	51	123				

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# 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
<b>Method:</b> E624									Batch: R275391
<b>Lab ID:</b> b17021110-001bms	<b>Sample Matrix Spike</b>								Run: 5971A.I_170224A 02/24/17 18:21
Carbon disulfide	5.12	ug/L	0.50	102	46	145			
Carbon tetrachloride	3.59	ug/L	0.50	72	75	125			S
Chlorobenzene	4.52	ug/L	0.50	90	80	123			
Chlorodibromomethane	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-Chlorotoluene	4.88	ug/L	0.50	98	75	131			
4-Chlorotoluene	4.68	ug/L	0.50	94	74	129			
1,2-Dibromoethane	4.16	ug/L	0.50	83	76	124			
Dibromomethane	4.64	ug/L	0.50	93	77	125			
1,2-Dichlorobenzene	4.64	ug/L	0.50	93	74	124			
1,3-Dichlorobenzene	4.88	ug/L	0.50	98	77	122			
1,4-Dichlorobenzene	4.76	ug/L	0.50	91	76	126			
Dichlorodifluoromethane	4.32	ug/L	0.50	86	56	146			
1,1-Dichloroethane	4.24	ug/L	0.50	85	74	133			
1,2-Dichloroethane	3.48	ug/L	0.50	70	75	129			S
1,1-Dichloroethene	4.12	ug/L	0.50	82	74	132			
cis-1,2-Dichloroethene	4.48	ug/L	0.50	90	81	122			
trans-1,2-Dichloroethene	4.64	ug/L	0.50	93	79	143			
1,2-Dichloropropane	4.92	ug/L	0.50	98	75	126			
1,3-Dichloropropane	4.24	ug/L	0.50	85	71	136			
2,2-Dichloropropane	3.60	ug/L	0.50	72	68	142			
1,1-Dichloropropene	4.04	ug/L	0.50	81	70	131			
cis-1,3-Dichloropropene	4.08	ug/L	0.50	82	74	135			
trans-1,3-Dichloropropene	3.97	ug/L	0.50	79	76	149			
Ethylbenzene	4.64	ug/L	0.50	93	72	130			
Methyl tert-butyl ether (MTBE)	3.63	ug/L	0.50	73	72	120			
Methyl ethyl ketone	44.4	ug/L	20	89	45	130			
Methyl isobutyl ketone	51.2	ug/L	20	102	58	135			
Methylene chloride	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-Tetrachloroethane	3.95	ug/L	0.50	79	78	124			
1,1,2,2-Tetrachloroethane	4.88	ug/L	0.50	98	68	137			
Toluene	4.88	ug/L	0.50	98	72	135			
Trichloroethene	4.56	ug/L	0.50	91	85	126			
1,1,1-Trichloroethane	3.51	ug/L	0.50	70	63	120			
1,1,2-Trichloroethane	4.52	ug/L	0.50	90	78	124			
Trichlorofluoromethane	3.29	ug/L	0.50	66	72	120			S
1,2,3-Trichloropropane	3.90	ug/L	0.50	78	64	138			
Vinyl Acetate	4.00	ug/L	1.0	80	31	124			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# 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
<b>Method: E624</b>							<b>Batch: R275391</b>		
<b>Lab ID:</b> b17021110-001bms	<b>Sample Matrix Spike</b>			<b>Run: 5971A.I_170224A</b>			<b>02/24/17 18:21</b>		
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			
<b>Lab ID: b17021110-001bmsd</b>							<b>Run: 5971A.I_170224A</b>		
<b>Sample Matrix Spike Duplicate</b>							<b>02/24/17 18:50</b>		
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	68	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	
trans-1,3-Dichloropropene	4.24	ug/L	0.50	85	76	149	6.6	20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting 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
<b>Method: E624</b>							Batch: R275391		
<b>Lab ID:</b> b17021110-001bmsd	<b>Sample Matrix Spike Duplicate</b>			<b>Run: 5971A.L_170224A</b>			<b>02/24/17 18:50</b>		
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	
Methyl 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-Trichloroethane	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.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625									Batch: 107004
Lab ID: MB-107004	Method Blank						Run: SV5973N2.I_170227B		02/27/17 18:24
Acenaphthene	ND	ug/L							10
Acenaphthylene	ND	ug/L							10
Anthracene	ND	ug/L							10
Azobenzene	ND	ug/L							10
Benzo(a)anthracene	ND	ug/L							10
Benzo(a)pyrene	ND	ug/L							10
Benzo(b)fluoranthene	ND	ug/L							10
Benzo(g,h,i)perylene	ND	ug/L							10
Benzo(k)fluoranthene	ND	ug/L							10
4-Bromophenyl phenyl ether	ND	ug/L							10
Butylbenzylphthalate	ND	ug/L							10
4-Chloro-3-methylphenol	ND	ug/L							10
bis(-2-chloroethoxy)Methane	ND	ug/L							10
bis(-2-chloroethyl)Ether	ND	ug/L							10
bis(2-chloroisopropyl)Ether	ND	ug/L							10
2-Chloronaphthalene	ND	ug/L							10
2-Chlorophenol	ND	ug/L							10
4-Chlorophenyl phenyl ether	ND	ug/L							10
Chrysene	ND	ug/L							10
Diethyl phthalate	ND	ug/L							10
Di-n-butyl phthalate	ND	ug/L							10
1,2-Dichlorobenzene	ND	ug/L							10
1,3-Dichlorobenzene	ND	ug/L							10
1,4-Dichlorobenzene	ND	ug/L							10
3,3'-Dichlorobenzidine	ND	ug/L							10
2,4-Dichlorophenol	ND	ug/L							10
Dimethyl phthalate	ND	ug/L							10
Di-n-octyl phthalate	ND	ug/L							10
Dibenzo(a,h)anthracene	ND	ug/L							10
2,4-Dimethylphenol	ND	ug/L							10
4,6-Dinitro-2-methylphenol	ND	ug/L							50
2,4-Dinitrophenol	ND	ug/L							50
2,4-Dinitrotoluene	ND	ug/L							10
2,6-Dinitrotoluene	ND	ug/L							10
bis(2-ethylhexyl)Phthalate	ND	ug/L							10
Fluoranthene	ND	ug/L							10
Fluorene	ND	ug/L							10
Hexachlorobenzene	ND	ug/L							10
Hexachlorobutadiene	ND	ug/L							10
Hexachlorocyclopentadiene	ND	ug/L							10
Hexachloroethane	ND	ug/L							10
Indeno(1,2,3-cd)pyrene	ND	ug/L							10
Isophorone	ND	ug/L							10

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting 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
<b>Method: E625</b>							<b>Batch: 107004</b>		
<b>Lab ID: MB-107004</b>	<b>Method Blank</b>		<b>Run: SV5973N2.I_170227B</b>				<b>02/27/17 18:24</b>		
n-Nitrosodimethylamine	ND	ug/L	10						
n-Nitroso-di-n-propylamine	ND	ug/L	10						
n-Nitrosodiphenylamine	ND	ug/L	10						
2-Nitrophenol	ND	ug/L	10						
4-Nitrophenol	ND	ug/L	50						
Naphthalene	ND	ug/L	10						
Nitrobenzene	ND	ug/L	10						
Pentachlorophenol	ND	ug/L	50						
Phenanthrene	ND	ug/L	10						
Phenol	ND	ug/L	10						
Pyrene	ND	ug/L	10						
1,2,4-Trichlorobenzene	ND	ug/L	10						
2,4,6-Trichlorophenol	ND	ug/L	10						
Surr: 2-Fluorobiphenyl			10	55	28	107			
Surr: 2-Fluorophenol			10	36	20	56			
Surr: Nitrobenzene-d5			10	58	32	94			
Surr: Phenol-d5			10	35	19	45			
Surr: Terphenyl-d14			10	77	32	122			
Surr: 2,4,6-Tribromophenol			10	58	21	130			
<b>Lab ID: LCS-107004</b>							<b>02/27/17 18:55</b>		
<b>Laboratory Control Sample</b>		<b>Run: SV5973N2.I_170227B</b>							
Acenaphthene	81.2	ug/L	10	81	58	99			
Acenaphthylene	76.5	ug/L	10	77	57	96			
Anthracene	79.5	ug/L	10	80	60	107			
Azobenzene	79.3	ug/L	10	79	56	100			
Benzo(a)anthracene	84.1	ug/L	10	84	62	114			
Benzo(a)pyrene	80.1	ug/L	10	80	62	108			
Benzo(b)fluoranthene	88.6	ug/L	10	89	48	127			
Benzo(g,h,i)perylene	81.6	ug/L	10	82	82	121			
Benzo(k)fluoranthene	79.2	ug/L	10	79	55	111			
4-Bromophenyl phenyl ether	83.0	ug/L	10	83	58	105			
Butylbenzylphthalate	91.6	ug/L	10	92	60	113			
4-Chloro-3-methylphenol	65.7	ug/L	10	66	53	92			
bis(-2-chloroethoxy)Methane	73.9	ug/L	10	74	50	92			
bis(-2-chloroethyl)Ether	63.4	ug/L	10	63	44	82			
bis(2-chloroisopropyl)Ether	61.2	ug/L	10	61	56	87			
2-Chloronaphthalene	74.9	ug/L	10	75	56	95			
2-Chlorophenol	60.1	ug/L	10	60	47	76			
4-Chlorophenyl phenyl ether	75.8	ug/L	10	76	58	99			
Chrysene	81.9	ug/L	10	82	63	106			
Diethyl phthalate	78.6	ug/L	10	79	58	103			
Di-n-butyl phthalate	87.6	ug/L	10	88	61	110			
1,2-Dichlorobenzene	81.5	ug/L	10	82	43	81			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting 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: E625							Batch: 107004		
Lab ID: LCS-107004	Laboratory Control Sample			Run: SV5973N2.I_170227B			02/27/17 18:55		
1,3-Dichlorobenzene	60.2	ug/L	10	60	41	79			
1,4-Dichlorobenzene	61.4	ug/L	10	61	42	79			
3,3'-Dichlorobenzidine	66.6	ug/L	10	69	51	93			
2,4-Dichlorophenol	64.7	ug/L	10	65	49	90			
Dimethyl phthalate	76.4	ug/L	10	76	58	104			
Di-n-octyl phthalate	88.3	ug/L	10	88	56	110			
Dibenzo(a,h)anthracene	80.4	ug/L	10	80	61	111			
2,4-Dimethylphenol	61.8	ug/L	10	62	45	89			
4,6-Dinitro-2-methylphenol	48.2	ug/L	50	48	37	105			
2,4-Dinitrophenol	39.7	ug/L	50	40	27	81			
2,4-Dinitrotoluene	87.7	ug/L	10	88	63	110			
2,6-Dinitrotoluene	75.5	ug/L	10	76	60	107			
bis(2-ethylhexyl)Phthalate	88.6	ug/L	10	89	56	108			
Fluoranthene	63.8	ug/L	10	84	63	110			
Fluorene	77.4	ug/L	10	77	60	99			
Hexachlorobenzene	78.2	ug/L	10	78	57	103			
Hexachlorobutadiene	67.5	ug/L	10	67	39	83			
Hexachlorocyclopentadiene	68.4	ug/L	10	68	39	91			
Hexachloroethane	59.6	ug/L	10	60	37	75			
Indeno(1,2,3-cd)pyrene	82.0	ug/L	10	82	59	109			
Isophorone	67.1	ug/L	10	67	42	102			
n-Nitrosodimethylamine	36.9	ug/L	10	37	20	45			
n-Nitroso-di-n-propylamine	71.5	ug/L	10	71	49	98			
n-Nitrosodiphenylamine	90.0	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			
Pentachlorophenol	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: SV5973N2.I_170227B			02/27/17 20:29		
Acenaphthene	86.4	ug/L	10	86	58	99			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting 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
<b>Method: E625</b>							<b>Batch: 107004</b>		
<b>Lab ID: B17021688-001CMS</b>	<b>Sample Matrix Spike</b>			<b>Run: SV5973N2.I_170227B</b>			<b>02/27/17 20:29</b>		
Acenaphthylene	83.0	ug/L	10	83	57	96			
Anthracene	86.4	ug/L	10	86	60	107			
Azobenzene	84.3	ug/L	10	84	56	100			
Benzo(a)anthracene	90.3	ug/L	10	90	62	114			
Benzo(a)pyrene	80.9	ug/L	10	81	62	108			
Benzo(b)fluoranthene	80.4	ug/L	10	80	48	127			
Benzo(g,h,i)perylene	80.5	ug/L	10	81	62	121			
Benzo(k)fluoranthene	83.5	ug/L	10	83	55	111			
4-Bromophenyl phenyl ether	80.4	ug/L	10	80	58	105			
Butylbenzylphthalate	99.7	ug/L	10	100	60	113			
4-Chloro-3-methylphenol	77.0	ug/L	10	77	53	92			
bis(-2-chloroethoxy)Methane	77.3	ug/L	10	77	50	92			
bis(-2-chloroethyl)Ether	66.7	ug/L	10	67	44	82			
bis(2-chloroisopropyl)Ether	66.6	ug/L	10	67	56	87			
2-Chloronaphthalene	79.8	ug/L	10	80	56	95			
2-Chlorophenol	64.1	ug/L	10	64	47	76			
4-Chlorophenyl phenyl ether	84.5	ug/L	10	85	58	99			
Chrysene	85.9	ug/L	10	86	63	106			
Diethyl phthalate	85.4	ug/L	10	85	58	103			
Di-n-butyl phthalate	96.0	ug/L	10	96	61	110			
1,2-Dichlorobenzene	66.1	ug/L	10	66	43	81			
1,3-Dichlorobenzene	61.9	ug/L	10	62	41	79			
1,4-Dichlorobenzene	61.8	ug/L	10	62	42	79			
3,3'-Dichlorobenzidine	69.1	ug/L	10	69	51	93			
2,4-Dichlorophenol	68.4	ug/L	10	68	49	90			
Dimethyl phthalate	81.4	ug/L	10	81	58	104			
Di-n-octyl phthalate	90.6	ug/L	10	91	56	110			
Dibenzo(a,h)anthracene	80.0	ug/L	10	80	61	111			
2,4-Dimethylphenol	69.2	ug/L	10	69	45	87			
4,6-Dinitro-2-methylphenol	58.9	ug/L	50	59	37	105			
2,4-Dinitrophenol	54.8	ug/L	50	55	27	81			
2,4-Dinitrotoluene	82.5	ug/L	10	83	63	110			
2,6-Dinitrotoluene	80.8	ug/L	10	81	60	107			
bis(2-ethylhexyl)Phthalate	92.0	ug/L	10	92	56	108			
Fluoranthene	88.0	ug/L	10	88	63	110			
Fluorene	80.1	ug/L	10	80	60	99			
Hexachlorobenzene	82.5	ug/L	10	83	57	103			
Hexachlorobutadiene	69.0	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	68.1	ug/L	10	68	39	91			
Hexachloroethane	65.6	ug/L	10	66	37	75			
Indeno(1,2,3-cd)pyrene	82.3	ug/L	10	82	59	109			
Isophorone	71.3	ug/L	10	71	42	102			
n-Nitrosodimethylamine	41.5	ug/L	10	41	20	45			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batch: 107004		
Lab ID: B17021688-001CMS	Sample Matrix Spike			Run: SV5973N2.I_170227B			02/27/17 20:29		
n-Nitroso-di-n-propylamine	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			
Pentachlorophenol	89.2	ug/L	50	89	53	109			
Phenanthrene	85.1	ug/L	10	85	58	104			
Phenol	36.7	ug/L	10	37	27	45			
Pyrene	88.8	ug/L	10	90	64	108			
1,2,4-Trichlorobenzene	70.9	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	67.7	ug/L	10	68	47	99			
Surr: 2-Fluorobiphenyl			10	62	28	107			
Surr: 2-Fluorophenol			10	39	20	56			
Surr: Nitrobenzene-d5			10	72	32	94			
Surr: Phenol-d5			10	35	19	45			
Surr: Terphenyl-d14			10	87	32	122			
Surr: 2,4,6-Tribromophenol			10	75	21	130			
Lab ID: B17021688-003CMS	Sample Matrix Spike			Run: SV5973N2.I_170227B			02/27/17 21:31		
Acenaphthene	89.8	ug/L	10	90	58	99			
Acenaphthylene	82.2	ug/L	10	82	57	96			
Anthracene	73.2	ug/L	10	73	60	107			
Azobenzene	80.2	ug/L	10	80	56	100			
Benzo(a)anthracene	85.1	ug/L	10	85	62	114			
Benzo(a)pyrene	77.0	ug/L	10	77	62	108			
Benzo(b)fluoranthene	73.3	ug/L	10	73	48	127			
Benzo(g,h,i)perylene	78.5	ug/L	10	79	62	121			
Benzo(k)fluoranthene	83.1	ug/L	10	83	55	111			
4-Bromophenyl phenyl ether	78.1	ug/L	10	78	58	105			
Butylbenzylphthalate	92.9	ug/L	10	93	60	113			
4-Chloro-3-methylphenol	69.5	ug/L	10	69	53	92			
bis(-2-chloroethoxy)Methane	69.6	ug/L	10	70	50	92			
bis(-2-chloroethyl)Ether	58.4	ug/L	10	58	44	82			
bis(2-chloroisopropyl)Ether	57.7	ug/L	10	58	56	87			
2-Chloronaphthalene	77.7	ug/L	10	78	56	95			
2-Chlorophenol	56.6	ug/L	10	57	47	76			
4-Chlorophenyl phenyl ether	82.9	ug/L	10	83	58	99			
Chrysene	82.0	ug/L	10	82	63	106			
Diethyl phthalate	80.2	ug/L	10	80	58	103			
Di-n-butyl phthalate	86.9	ug/L	10	87	61	110			
1,2-Dichlorobenzene	61.5	ug/L	10	62	43	81			
1,3-Dichlorobenzene	59.3	ug/L	10	59	41	79			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting 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
<b>Method: E625</b>							<b>Batch: 107004</b>		
<b>Lab ID: B17021688-003CMS</b>	<b>Sample Matrix Spike</b>		<b>Run: SV5973N2.I_170227B</b>				<b>02/27/17 21:31</b>		
1,4-Dichlorobenzene	57.9	ug/L	10	58	42	79			
3,3'-Dichlorobenzidine	52.9	ug/L	10	53	51	93			
2,4-Dichlorophenol	61.5	ug/L	10	62	49	90			
Dimethyl phthalate	74.3	ug/L	10	74	58	104			
Di-n-octyl phthalate	82.5	ug/L	10	83	56	110			
Dibenzo(a,h)anthracene	75.9	ug/L	10	76	61	111			
2,4-Dimethylphenol	60.0	ug/L	10	60	45	87			
4,6-Dinitro-2-methylphenol	41.6	ug/L	50	42	37	105			
2,4-Dinitrophenol	30.1	ug/L	50	30	27	81			
2,4-Dinitrotoluene	86.9	ug/L	10	87	63	110			
2,6-Dinitrotoluene	75.9	ug/L	10	76	60	107			
bis(2-ethylhexyl)Phthalate	81.5	ug/L	10	82	56	108			
Fluoranthene	82.0	ug/L	10	82	63	110			
Fluorene	81.9	ug/L	10	82	60	99			
Hexachlorobenzene	75.8	ug/L	10	76	57	103			
Hexachlorobutadiene	69.3	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	69.5	ug/L	10	70	39	91			
Hexachloroethane	57.7	ug/L	10	58	37	75			
Indeno(1,2,3-cd)pyrene	73.4	ug/L	10	73	59	109			
Isophorone	68.4	ug/L	10	68	42	102			
n-Nitrosodimethylamine	27.8	ug/L	10	28	20	45			
n-Nitroso-di-n-propylamine	68.7	ug/L	10	69	49	98			
n-Nitrosodiphenylamine	84.0	ug/L	10	84	61	108			
2-Nitrophenol	61.8	ug/L	10	62	51	96			
4-Nitrophenol	27.7	ug/L	50	28	15	36			
Naphthalene	72.4	ug/L	10	72	48	96			
Nitrobenzene	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			10	45	28	107			
Surr: 2-Fluorophenol			10	37	20	56			
Surr: Nitrobenzene-d5			10	62	32	94			
Surr: Phenol-d5			10	31	19	45			
Surr: Terphenyl-d14			10	64	32	122			
Surr: 2,4,6-Tribromophenol			10	55	21	130			
<b>Lab ID: MB-107004</b>	<b>Method Blank</b>		<b>Run: SV5973N2.I_170228A</b>				<b>02/28/17 12:11</b>		
Benzidine	ND	ug/L	10						

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> E625									Batch: 107004
<b>Lab ID:</b> LCS-107004	Laboratory Control Sample								Run: SV5973N2.I_170228A 02/28/17 12:42
Benzidine	63.4	ug/L	10	63	10	100			
<b>Lab ID:</b> B17021688-001CMS	Sample Matrix Spike								Run: SV5973N2.I_170228A 02/28/17 14:16
Benzidine	25.8	ug/L	20	26	10	100			
<b>Lab ID:</b> B17021688-003CMS	Sample Matrix Spike								Run: SV5973N2.I_170228A 02/28/17 15:18
Benzidine	28.5	ug/L	20	28	10	100			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Analytical Run: R275528		
Lab ID: 27-Feb-17_CCV_2	Continuing Calibration Verification Standard						02/27/17 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-chloroethyl)Ether	80.8	ug/L	10	108	80	120			
bis(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.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>							Analytical Run: R275528		
<b>Lab ID:</b> 27-Feb-17_CCV_2	Continuing Calibration Verification Standard						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			
Pentachlorophenol	73.3	ug/L	50	98	80	120			
Phenanthrene	74.0	ug/L	10	99	80	120			
Phenol	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-Fluorobiphenyl			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			

<b>Method: E625</b>							Analytical Run: R275577		
<b>Lab ID:</b> 28-Feb-17_CCV_2	Continuing Calibration Verification Standard						02/28/17 11:39		
Benzidine	89.5	ug/L	10	119	80	120			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# 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
<b>Method:</b> SW8260M									Analytical Run: 107003
<b>Lab ID:</b> CCV-107003	Continuing Calibration Verification Standard								02/27/17 08:30
1,4-Dioxane	105	ug/L	1.0	105	80	120			
<b>Method:</b> SW8260M									Batch: 107003
<b>Lab ID:</b> LCS-107003	Laboratory Control Sample								Run: VOA5973A.I_170227A
1,4-Dioxane	106	ug/L	1.0	106	70	130			02/27/17 09:22
<b>Lab ID:</b> MB-107003	Method Blank								Run: VOA5973A.I_170227A
1,4-Dioxane	ND	ug/L	1.0						02/27/17 09:44
<b>Lab ID:</b> C17020566-001BMS	Sample Matrix Spike								Run: VOA5973A.I_170227A
1,4-Dioxane	200	ug/L	2.0	100	70	130			02/27/17 11:37
<b>Lab ID:</b> C17020566-001BMSD	Sample Matrix Spike Duplicate								Run: VOA5973A.I_170227A
1,4-Dioxane	206	ug/L	2.0	103	70	130	3.0		02/27/17 11:59

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

C17020566

Login completed by: Dorian Quis

Date Received: 2/21/2017

Reviewed by: Kasey Vidick

Received by: dcq

Reviewed Date: 2/21/2017

Carrier name: Ground

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	6.8°C Blue ice		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

## Standard Reporting Procedures:

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

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

## Contact and Corrective Action Comments:

None

Chain of Custody Form



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

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

www.coloradolab.com

<b>Report To Information</b> Company Name: <u>Colorado Analytical</u> Contact Name: <u>Stuart Nielson</u>	<b>Bill To Information (if different from report to)</b> Company Name: <u>Same As Report To</u> Contact Name: _____	<b>Project Name</b> <u>170217005</u> <u>Lfh-1 Co-0121724</u>
Address: <u>240 S. Main St</u>	Address: _____	<b>Task Number (Lab Use Only)</b> _____
City <u>Brighton</u> State <u>CO</u> Zip <u>80601</u>	City _____ State _____ Zip _____	<b>Disposal Date (Lab Use Only)</b> _____
Phone: <u>3036592313</u> Fax: <u>3036592315</u>	Phone: _____ Fax: _____	
Email: <u>stuartnielson@coloradolab.com</u>	Email: _____	
Sample Collector: <u>Stephanie Schwenke</u>	PO No.: _____	

Date	ID	Waste Water	Ground Water	Surface Water	Soil	Sludge	Compost	Plant Tissue	Other	Drinking Water	No. of Containers	Grab or (Check One Only) Composite	624 VOC Long List	625 SOCs	1,4 Dioxane	Seals Present	
																Yes	No
2/16/17		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Crossed

Instructions: Send via UPS to Energy Labs  
3.2  
Relinquished By: [Signature] Date/Time: 2/20/17 1600  
Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Received By: [Signature] Date/Time: 2/21/17 1150



Colorado Department  
of Public Health  
and Environment

**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**

Revised 6/13/2014

**IOC**

<b>Section I (Supplied or Completed by Public Water System)</b>		<b>Section II (Supplied or Completed by Certified Laboratory)</b>	
<b>Public Water System Information</b>		<b>Certified Laboratory Information</b>	
PWSID#: CO0121724		Laboratory ID: CO 0015	
System Name: Sterling Ranch MD		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle		Contact Person: Customer Service Phone: 303-659-2313	
Comments:		Comments:	
Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>			

<b>Section III (Supplied or Completed by Public Water System)</b>			
Sample Date: 3/23/17	Collector: Stephanie Schw	Facility ID (On Schedule): New Well	Sample Pt ID (On Schedule): New Well
<b>Section IV Inorganic Chemicals (Completed by Certified Laboratory)</b>			
Lab Receipt Date: 3/24/17	Lab Analysis Date: 3/24/17	Lab Sample ID: 170324007-01	Analyte Name: Fluoride
		CAS No: 7681-49-4	Analytical Method: EPA 300.0
		MCL (mg/L): 4	Lab MRL (mg/L): 0.09
			Result (mg/L): 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

4/21/17  
 170324007-01  
 1/1  
 N





Drinking Water Chain of Custody

page 1 of 2

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>	
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR WATER</u>	PWSID: <u>CO 0121724</u>	
Contact Name: <u>Mark Volle</u>	Contact Name: <u>JIM MORLEY</u>	System Name: <u>STEERING RANCH MD</u>	
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 BOWDER CRESCENT</u>	City: <u>COLO SPRGS</u> State: <u>CO</u> Zip: <u>80903</u>	
City: <u>CS</u> State: <u>CO</u> Zip: <u>80903</u>	City: <u>SPRINGS</u> State: <u>CO</u> Zip: <u>80905</u>	County: <u>El Paso</u>	
Phone: <u>719-227-0079</u> Fax:	Phone: Fax:	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Email: <u>m.volle@jshydro.com</u>	Email: <u>jmorley3870@aol.com</u>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Sampler Name: <u>Stephanie Schwenke</u> PO No.:			

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses																
ARF		No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBS	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbonates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SVA, UV 254 (Circle)	625-50C	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium				
3-23	7:55	1					X					X																					
	7:57	1							X																								
	8:11	2		X																													
	7:52	1																															
	7:52am	3																															
	7:53	2																															
	7:58	1											X																				
	7:59	1																															
	8:03	1																															

Instructions: No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive the shipment.

Relinquished By: Stephanie Schwenke Date/Time: 3-23 11:30am Received By: Elise Wilson Date/Time: 3/24/17 10:10

Delivered Via: Fed Ex C/S Charge:  C/S Info: 3.3 °C/lcc  Temp. 3.3 °C/lcc  Seals Present Yes  No  Headspace Yes  No  Sample Pres. Yes  No  Date/Time: 3-23 11:30am Received By: Elise Wilson Date/Time: 3/24/17 10:10



**Brighton Lab**  
 240 South Main Street  
 Brighton, CO 80601

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

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

[www.coloradolab.com](http://www.coloradolab.com)

Drinking Water Chain of Custody

page 2 of 2

<b>Report To Information</b> Company Name: <u>JDS-Hydr Consulting</u> Contact Name: <u>Mark Volle</u> Address: <u>545 E. Pikes Peak Ave Suite 300</u> City: <u>CS</u> State: <u>CO</u> Zip: <u>80903</u> Phone: <u>719-227-0073</u> Fax: Email: <u>Mvolle@jds-hydr.com</u> Sampler Name: <u>Soprano Schuster</u> PO No.:		<b>Bill To Information (if different from report to)</b> Company Name: <u>SR Water</u> Contact Name: <u>Jim Morley</u> Address: <u>20 Boulder Crest</u> City: <u>Colorado</u> State: <u>CO</u> Zip: <u>80903</u> Phone: Fax:		<b>State Form / Project Information</b> PWSID: <u>CO 0121724</u> System Name: <u>Serling Ranch MD</u> Address: <u>20 Boulder Crest</u> City: <u>CS</u> State: <u>CO</u> Zip: <u>80903</u> County: <u>El Paso</u> Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
---	--	---	--	--	--

<b>PHASE I, II, V Drinking Water Analyses (check analysis)</b> Total Coliform P/A 504.1 EDB/D/CP 505 Pests/P/CBS 515.4 Herbicides 525.2 SOC-Pest 531.1 Carbamates 547 Glyphosate 548.1 Endothal 549.2 Diquat 524.2 TTHMs 552.2 HAA5s Lead/Copper Nitrate Nitrite Fluoride Inorganics Alk/Lang. Index (TOD, DOC) (Circle) SUVA, UV 254 (Circle)		<b>Subcontract Analyses</b> Gross Alpha/Beta Radium 226 Radium 228 Radon Uranium	
<b>Instructions:</b> Date Time Client Sample ID / EP Code 3-23 8:07 #11 <del>8:00 #12</del> <del>8:12 #13</del> 8:26 #14 8:18 #15 8:12 #16 (1,4 Dioxane) 8:20 #17 8:21 #18 8:15 #19 8:29 #20		No. of Containers Residual Chlorine (mg/L) P/A Samples Only Total Coliform P/A 504.1 EDB/D/CP 505 Pests/P/CBS 515.4 Herbicides 525.2 SOC-Pest 531.1 Carbamates 547 Glyphosate 548.1 Endothal 549.2 Diquat 524.2 TTHMs 552.2 HAA5s Lead/Copper Nitrate Nitrite Fluoride Inorganics Alk/Lang. Index (TOD, DOC) (Circle) SUVA, UV 254 (Circle)	
Relinquished By: <u>[Signature]</u> Date/Time: <u>3-23 11:30am</u>		Received By: _____ Date/Time: _____	



Colorado Department  
of Public Health  
and Environment

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

Revised 4/13/2015

**IOC**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO0121724		Laboratory ID: CO 0015	
System Name: Sterling Ranch MD		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle		Contact Person: Customer Service Phone: 303-659-2313	
Comments:		Comments:	
Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>			

Section III (Supplied or Completed by Public Water System)			
Sample Date: 3/23/17	Collector: Stephanie Schwe	Facility ID (On Schedule): New Well	Sample Pt ID (On Schedule): New Well
Section IV Inorganic Chemicals (Completed by Certified Laboratory)			

Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (mg/L)	Lab MRL (mg/L)	Result (mg/L)
3/24/17	3/29/17	170324007-01A	Antimony	7740-36-0	EPA 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	EPA 200.8	0.002	0.0001	BDL
3/24/17	3/29/17	170324007-01A	Nickel	7440-02-0	EPA 200.8	N/A	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	N/A	0.1	52.8
3/24/17	3/29/17	170324007-01A	Thallium	7440-28-0	EPA 200.8	0.002	0.001	BDL

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



**Colorado Analytical**  
LABORATORIES, INC.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

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

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

www.coloradolab.com

**Drinking Water Chain of Custody**

page 1 of 2

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>	
Company Name: JDS-Hydro Consultants	Company Name: SR WATER	PWSID: CO 0121724	System Name: STEERING BANK MD
Contact Name: Mark Volle	Contact Name: JIM MORLEY	Address: 20 BOWDER CRESCENT	Address: 20 BOWDER CRESCENT
Address: 545 E. Pikespeak Ave Suite 303	Address: COLORADO CITY SPRINGS State CO Zip 80905	City: COLORADO SPRINGS	City: COLORADO SPRINGS
City: CS State: CO Zip: 80903	City: SPRINGS State: CO Zip: 80905	State: CO Zip: 80905	State: CO Zip: 80905
Phone: 719-207-0079	Phone: 303-387-0200	County: El Paso	County: El Paso
Phone: 719-207-0079	Phone: 303-387-0200	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Email: mvolle@jds-hydro.com	Email: jmorley3870@aol.com	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Sampler Name: Stephanie Schwenke	PO No.:		

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)																		Subcontract Analyses																	
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/BBCP	505 Pests/PCBS	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 THMS	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>											
																										Headspace Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temp. 3.3 °C/ice Y	Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date/Time:								
3-23	7:55	#1	1						X																												
	7:57	#2	1																																		
	8:11	#3	2			X																															
	7:52	#4	1																																		
	7:52am	#5	1																																		
	7:53	#6	3																																		
	7:58	#7	2																																		
	7:59	#8 - no H2O included	1																																		
	8:02	#9	1																																		
	8:02	#10	1																																		

Instructions: No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve DiQuot Sample #8 as soon as you receive the shipment.

Relinquished By: *[Signature]* Date/Time: 3-23 11:30am  
Received By: *[Signature]* Date/Time: 3/24/17 10:10

Delivered Via: Fed Ex  
C/S Charge:   
Temp: 3.3 °C/ice Y  
Sample Pres. Yes  No   
Date/Time:   
Received By:   
Date/Time:



Drinking Water Chain of Custody

page 2 of 2

<b>Report To Information</b> Company Name: <u>JDS-Hydro Consultants</u> Contact Name: <u>Mark Volle</u> Address: <u>545 E. Pikes Peak Ave</u> <u>Suite 300</u> City: <u>CS</u> State: <u>CO</u> Zip: <u>80903</u> Phone: <u>719-227-0073</u> Fax: Email: <u>mvolle@jds-hydro.com</u> Sampler Name: <u>Stephan Schuster</u> PO No.:		<b>Bill To Information (if different from report to)</b> Company Name: <u>SR Water</u> Contact Name: <u>Jim Morley</u> Address: <u>20 Boulder Crescent</u> <u>City</u> State: <u>CO</u> Zip: <u>80903</u> Phone: Fax: Email: <u>jmorley3870@aol.com</u> Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>State Form / Project Information</b> PWSID: <u>CO 0121724</u> System Name: <u>Serling Ranch MD</u> Address: <u>20 Boulder Crescent</u> City: <u>CS</u> State: <u>CO</u> Zip: <u>80903</u> County: <u>El Paso</u> Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<b>LABORATORIES, INC.</b> <b>Brighton Lab</b> 240 South Main Street Brighton, CO 80601 <b>Lakewood Lab</b> 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228 Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com	

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses																		
ARF		No. of Containers	Residual Chlorine (mg/L)	Total Coliform P/A	504.1 EDB/D/BCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	522.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	(TOC, DOC (Circle))	SUVA, UV 254 (Circle)	X Cyanide	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium							
3-23	8:07	#11																																	
	8:00 am	#12																																	
	8:26	#14																																	
	8:12	#15																																	
	8:23	#16 (1,4 Dioxane)																																	
	8:24	#18																																	
	8:15	#19																																	
	8:29	#20																																	

Instructions:  
 Relinquished By: [Signature] Date/Time: 3-23 11:30am  
 Received By: [Signature] Date/Time: 3-23 11:30am

## Analytical Results

**TASK NO: 170324007**

**Report To:** Mark Volle

**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley

**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

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

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

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

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	99.7 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	3/28/17	VDB
Calcium as CaCO <sub>3</sub>	2.6 mg/L	SM 3111-B	0.1	3/30/17	MBN
Carbonate	< 0.1 mg/L as CaCO <sub>3</sub>	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 CaCO <sub>3</sub>	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 ml = Most Probable Number Index/ 100 ml  
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

### Drinking Water Chain of Custody

page 1 of 2



LABORATORIES, INC.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

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

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

[www.coloradolab.com](http://www.coloradolab.com)

<b>Report To Information</b> Company Name: <u>JDS-Hydro Consultants</u> Contact Name: <u>Mark Volle</u>		<b>State Form / Project Information</b> FWSID: <u>CO 0121724</u> System Name: <u>STEERING BANCH MD</u>	
Address: <u>545 E. Pikes Peak Ave</u> <u>Suite 300</u>		Address: <u>20 BOWDER CRESCENT</u>	
City <u>CO Springs</u> State <u>CO</u> Zip <u>80903</u>		City <u>CO Springs</u> State <u>CO</u> Zip <u>80903</u>	
Phone: <u>719-227-0072</u> Fax: _____		County: <u>El Paso</u>	
Email: <u>m.volle@jds-hydro.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>Stephanie Schwenke</u> PO No.: _____		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Report To Information			PHASE I, II, V Drinking Water Analyses (check analysis)											Subcontract Analyses																					
BILL TO INFORMATION (if different from report to)			PHASE I, II, V Drinking Water Analyses (check analysis)											Subcontract Analyses																					
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbinates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	522 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SVA, UV 254 (Circle)	625-50C	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium					
3-23	7:55	#1	1					X					X																						
	7:57	#2	1							X																									
	8:11	#3 8:05	2		X																														
	7:52	#4	1		X																														
	7:52am	#5	1																																
	7:53	#6	3																																
	7:58	#7 no H2SO4 preservative	2																																
	7:59	#8 included in	1																																
	8:00	#9	1																																
	8:00	#10	1																																

**Instructions:** No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive this shipment.

Relinquished By: [Signature] Date/Time: 3-23 11:30am  
 Received By: Elise Wilson Date/Time: 3/24/10 10:10  
 Delivered Via: Fed Ex C/S Charge  C/S Info: \_\_\_\_\_  
 Temp: 3.3 °C/ice  Seals Present Yes  No  Headspace Yes  No   
 Sample Pres. Yes  No   
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_



Drinking Water Chain of Custody

page 2 of 2

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR Water</u>	PWSID: <u>CO 0121724</u>		System Name: <u>Serling Ranch MD</u>	
Contact Name: <u>Mark Volle</u>	Contact Name: <u>Jim Morley</u>	Address: <u>20 Boulder Crest</u>		Address: <u>20 Boulder Crest</u>	
Address: <u>546 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crest</u>	City: <u>CS</u>		City: <u>CS</u>	
Suite: <u>300</u>		State: <u>CO</u>		State: <u>CO</u>	
City: <u>CS</u>	City: <u>Colorado</u>	Zip: <u>80903</u>		Zip: <u>80903</u>	
Phone: <u>719-227-0072</u>	Phone: <u>3870-0231</u>	County: <u>El Paso</u>		County: <u>El Paso</u>	
Fax: <u></u>	Fax: <u></u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Email: <u>mvolle@jds-hydro.com</u>	Email: <u>morleyj3870@aol.com</u>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Sampler Name: <u>Soprano Schuster</u>	Sampler Name: <u>Soprano Schuster</u>	C/S Charge <input type="checkbox"/>		C/S Charge <input type="checkbox"/>	

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)														Subcontract Analyses																			
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/D/BCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	(TOC, DOC (Circle))	SUVA, UV 254 (Circle)	Cyanide	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium					
3-23	8:01	#11	1																																
	8:00 am	#12	X																																
	8:26	#14	3				X																												
	8:12	#15	2																																
	8:20	#16 (1,4 Dioxane)	3																																
	8:28	#17	2																																
	8:15	#18	3																																
	8:19	#19	3																																
	8:29	#20	3																																

Instructions:  
 Relinquished By: [Signature] Date/Time: 3-23 11:30am  
 Received By: [Signature] Date/Time: 3-23 11:30am





Colorado Department  
of Public Health  
and Environment

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

Revised 4/13/2015

**NOX**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO0121724		Laboratory ID: CO 0015	
System Name: Sterling Ranch MD		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #: 719-227-0072	Contact Person: Customer Service	Phone: 303-659-2313
Comments:		Comments:	

Section III (Supplied or Completed by Public Water System)				Section IV (Supplied or Completed by Certified Laboratory)								
Sample Date	Collector	Facility ID On Schedule	Sample Pt ID On Schedule	Confirmation?	Lab Receipt Date	Lab Analysis Date	Laboratory Sample ID #	Analyte	Analytical Method	MCL (mg/L)	Lab MRI (mg/L)	Result (mg/L)
3/23/17	ephanie Schwenk	New Well	New Well	<input type="checkbox"/>	3/24/17	3/24/17	170324007-01	Nitrate Nitrogen	EPA 300.0	10	0.1	BDL
3/23/17	ephanie Schwenk	New Well	New Well	<input type="checkbox"/>	3/24/17	3/24/17	170324007-01	Nitrite Nitrogen	EPA 300.0	1	0.1	BDL

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



Drinking Water Chain of Custody

page 1 of 2

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: <u>JDS-Hydro Consultants</u>		Company Name: <u>SR WATER</u>		PWSID: <u>CO 0121724</u>	
Contact Name: <u>Mark Volle</u>		Contact Name: <u>JIM MORLEY</u>		System Name: <u>STEERING BASIN MD</u>	
Address: <u>545 E. Pikespeak Ave</u>		Address: <u>20 BOWDER CRESCENT</u>		Address: <u>20 BOWDER CRESCENT</u>	
<u>Suite 300</u>		<u>Colorado</u>		City: <u>COLO SPRGS</u> State: <u>CO</u> Zip: <u>80903</u>	
City: <u>CS</u> State: <u>CO</u> Zip: <u>80903</u>		City: <u>SPRINGS</u> State: <u>CO</u> Zip: <u>80905</u>		County: <u>El Paso</u>	
Phone: <u>719-207-0070</u> Fax:		Phone: _____ Fax: _____		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Email: <u>m.volle@jds-hydro.com</u>		Email: <u>jmorley3870@aol.com</u>		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Sampler Name: <u>Stephanie Schwenke</u> PO No.:					

CAL Task No.		PHASE I, II, V Drinking Water Analyses (check analysis)														Subcontract Analyses																				
170324007																																				
ARF																																				
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBS	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbinates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	625-50C	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium						
3-23	7:55	#1	1					X					X																							
	7:57	#2	1							X																										
	8:11	#3 8:05	2		X																															
	7:52	#4	1		X																															
	7:52am	#5	1																																	
	7:53	#6	3																																	
	7:53	#7	2																																	
	7:58	#8 no H <sub>2</sub> O preservative	1											X																						
	7:59	#9 - rounded in	1																																	
	8:03	#10	1																																	

Instructions: No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive the shipment.

Seals Present Yes  No  Headspace Yes  No

Temp. 3.3 °C/lcc Y Sample Pres. Yes  No

Relinquished By: Stephanie Schwenke Date/Time: 3/23 11:30am

Delivered Via: Fed Ex Date/Time: 3/24/17 10:10

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_



**Brighton Lab**  
 240 South Main Street  
 Brighton, CO 80601

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

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

[www.coloradolab.com](http://www.coloradolab.com)

Drinking Water Chain of Custody

page 2 of 2

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR Water</u>	PWSID: <u>CO 0121724</u>		System Name: <u>Serling Ranch MD</u>	
Contact Name: <u>Mark Volle</u>	Contact Name: <u>Jim Morley</u>	Address: <u>20 Boulder Crescent</u>		Address: <u>20 Boulder Crescent</u>	
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crescent</u>	City: <u>CS</u>	State: <u>CO</u>	City: <u>CS</u>	State: <u>CO</u>
Zip: <u>80903</u>	Zip: <u>80903</u>	City: <u>CS</u>	State: <u>CO</u>	City: <u>CS</u>	State: <u>CO</u>
Phone: <u>719-227-0073</u>	Phone: <u>719-227-0073</u>	County: <u>El Paso</u>		County: <u>El Paso</u>	
Fax: <u></u>	Fax: <u></u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Email: <u>Mvolle@jds-hydro.com</u>	Email: <u>Jimorley@srwater.com</u>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Sampler Name: <u>Stephanie Schuster</u>	PO No: <u></u>				

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)																				Subcontract Analyses								
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBS	515.4 Herbicides	525.2 SOCS-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	552.2 HAAS	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	(TOC, DOC) (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
3-23	8:01	#11	1																											
	8:00 am	#12	1																											
	8:26	#14	3																											
	8:18	#15	2																											
	8:12	#16 (1,4 Dioxane)	3																											
	8:23	#17	2																											
	8:24	#18	2																											
	8:15	#19	2																											
	8:29	#20	3																											
<b>Instructions:</b>		C/S Info: _____ Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/> Headspace Yes <input type="checkbox"/> No <input type="checkbox"/>																												
<b>Relinquished By:</b> <i>[Signature]</i>	<b>Date/Time:</b> 3-23 11:30am	<b>Received By:</b> <i>[Signature]</i>	<b>Date/Time:</b> 3-23 11:30am	<b>Delivered Via:</b> C/S Charge <input type="checkbox"/> Temp. _____ °C/Ice _____	<b>Retinquired By:</b> Date/Time: _____	<b>Sample Pres. Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>	<b>Date/Time:</b> Date/Time: _____																							



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

Revised 4/13/2015

**VOC/SOC**

Section I (Supplied or Completed by Public Water System)		Section JI (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO0121724		Laboratory ID: CO 00063	
System Name: Sterling Ranch MD		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle		Contact Person: Customer Service	Phone: 303-659-2313
Comments:		Comments:	
Do Samples Need to be Composited BY THE LAB? <input type="checkbox"/>			

PWSID#: CO0121724		Section V (Supplied or Completed by Public Water System)				Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)				
Lab Receipt Date	Lab Analysis Date	Collector:	Stephanie Schwenk	Facility ID (On Schedule):	New Well	Sample Pt ID (On Schedule):	New Well	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
3/24/17	4/3/17									
3/24/17	3/29/17			Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL	
3/24/17	3/29/17			2,4-D	94-75-7	EPA 515.4	70	0.1	BDL	
3/24/17	3/31/17			2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL	
3/24/17	3/31/17			Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL	
3/24/17	3/31/17			Aldicarb	116-06-3	EPA 531.1	N/A	0.6	BDL	
3/24/17	3/31/17			Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL	
3/24/17	3/31/17			Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL	
3/24/17	3/31/17			Atrazine	1912-24-9	EPA 525.2	3	0.1	BDL	
3/24/17	3/31/17			Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL	
3/24/17	3/31/17			Carbofuran	1563-66-2	EPA 531.1	40	0.9	BDL	
3/24/17	3/30/17			Chlordane	57-74-9	EPA 505	2	0.2	BDL	
3/24/17	3/29/17			Delapone	75-99-0	EPA 515.4	200	1	BDL	
3/24/17	3/31/17			Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	0.6	BDL	
3/24/17	3/31/17			Di(2-ethylhexyl)phthalate	117-81-7	EPA 525.2	6	0.6	BDL	
3/24/17	3/29/17			Dinoseb	85-85-7	EPA 515.4	7	0.2	BDL	
3/24/17	3/29/17			Diquat	85-00-7	EPA 549.2	20	0.4	BDL	
3/24/17	3/29/17			Endothall	145-73-3	EPA 548.1	100	9	BDL	
3/24/17	3/30/17			Endrin	72-20-8	EPA 505	2	0.01	BDL	
3/24/17	4/3/17			Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL	
3/24/17	3/31/17			Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL	
3/24/17	3/30/17			Heptachlor epoxide	1024-57-3	EPA 505	0.2	0.02	BDL	

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

PWSID#: CO0121724		Section V (Supplied or Completed by Public Water System)						
Sample Date:	3/23/17	Collector:	Stephanie Schwenk	Facility ID (On Schedule):	New Well	Sample Pt ID (On Schedule):	New Well	
Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)		Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
3/24/17	170324007-01F	170324007-01F	Hexachlorobenzene	118-74-1	EPA 505	1	0.1	BDL
3/24/17	170324007-01F	170324007-01F	Hexachlorocyclopentadiene	77-47-4	EPA 505	50	0.1	BDL
3/24/17	170324007-01F	170324007-01F	Lindane	58-89-9	EPA 505	0.2	0.02	BDL
3/24/17	170324007-01F	170324007-01F	Methoxychlor	72-43-5	EPA 505	40	0.1	BDL
3/24/17	170324007-01J	170324007-01J	Oxamyl	23135-22-0	EPA 531.1	200	1	BDL
3/24/17	170324007-01G	170324007-01G	Pentachlorophenol	87-86-5	EPA 515.4	1	0.04	BDL
3/24/17	170324007-01G	170324007-01G	Picloram	1918-02-1	EPA 515.4	500	0.1	BDL
3/24/17	170324007-01F	170324007-01F	Polychlorinated biphenyl's	1336-36-3	EPA 505	0.5	0.1	BDL
3/24/17	170324007-01I	170324007-01I	Simazine	122-34-9	EPA 525.2	4	0.07	BDL
3/24/17	170324007-01F	170324007-01F	Toxaphene	8001-35-2	EPA 505	3	1	BDL

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

170324007-01 N

2/2  
4/21/17



Drinking Water Chain of Custody

page 1 of 2

<b>Report To Information</b> Company Name: <u>JDS Hydro Consultants</u> Contact Name: <u>Mark Volle</u>		<b>Bill To Information (if different from report to)</b> Company Name: <u>SR WATER</u> Contact Name: <u>JIM MORLEY</u>		<b>State Form / Project Information</b> PWSID: <u>CO 0121724</u> System Name: <u>STEALING RANCH MD</u>	
Address: <u>545 E. Pikes Peak Ave Suite 300</u> City: <u>CO Springs 80903</u> Phone: <u>719-227-0072</u> Fax:		Address: <u>20 BOULDER CRESCENT</u> City: <u>CO Springs</u> State: <u>CO</u> Zip: <u>80905</u> County: <u>El Paso</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Send Forms to States: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Email: <u>m.volle@jds-hydro.com</u> Sampler Name: <u>Stephanie Schwienke</u> PO No.:		Email: <u>jmorley3870@aol.com</u>			

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses																						
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	522 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SVA, UV 254 (Circle)	625-50C	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium									
3-23	7:55	#1	1					X					X																										
	7:57	#2	1							X																													
	8:11	#3	2																																				
	7:52	#4	1		X																																		
	7:52am	#5	1																																				
	7:53	#6	3																																				
	7:58	#7	2																																				
	7:58	#8	1																																				
	7:59	#9	1																																				
	8:03	#10	1																																				

Instructions: No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive this shipment.

Relinquished By: [Signature] Date/Time: 3:23 11:30am Received By: Elise Wilson Date/Time: 3/24/10 10:10

Delivered Via: Fed Ex C/S Charge:  C/S Info: 3.3 °C/ice Sample Pres. Yes  No  Temp. 3.3 Seals Present Yes  No  Headspace Yes  No



Drinking Water Chain of Custody

page 2 of 2

Report To Information		Bill To Information (if different from report to)	
Company Name: JDS-Hydro Consultants	Company Name: SR Water	State Form / Project Information	
Contact Name: Mark Volle	Contact Name: Jim Morley	PWSID: CO 0121724	System Name: Serling Ranch MD
Address: 545 E. Pikes Peak Ave Suite 300	Address: 20 Boulder Crescent	Address: 20 Boulder Crescent	
City CS State CO Zip 80903	City CS State CO Zip 80903	City CS State CO Zip 80903	
Phone: 719-227-0072 Fax:	Phone: Fax:	County: El Paso	
Email: mvolle@jds-hydro.com	Email: jmorley@srwater.com	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: Stephen Schuster PO No.:		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses															
ARF		No. of Containers	Residual Chlorine (mg/L)	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbinates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	552.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	(TOC, DOC (Circle))	SUVA, UV 254 (Circle)	X Cyanide	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium				
3-23	8:01 #11	1																														
	8:00 #12	X																														
	8:26 #14	3			X																											
	8:18 #15	2																														
	8:12 #16 (1,4 Dioxane)	3																														
	8:23 #17	2																														
	8:28 #18	2																														
	8:15 #19	3			X																											
	8:29 #20	3																														

Instructions:

Retinquired By: [Signature] Date/Time: 3-23 11:30am

Received By: [Signature] Date/Time: 3-23 11:30am

Relinquished By: [Signature] Date/Time: 3-23 11:30am

Delivered Via: C/S Charge  Temp. °C/fce Sample Pres. Yes  No

Relinquished By: Date/Time: Received By: Date/Time:



# Radionuclides Certified Laboratory Report Form

Revision 6/13/2014

WQCD - Drinking Water CAS  
4300 Cherry Creek Drive South; Denver, CO 80246-1530  
Fax: (303) 758-1398; [cdphe.drinkingwater@state.co.us](mailto:cdphe.drinkingwater@state.co.us)

# RAD

Colorado Department  
of Public Health  
and Environment

## Section I (Supplied or Completed by Public Water System)

## Section II (Supplied or Completed by Certified Laboratory)

### Public Water System Information

### Certified Laboratory Information

PWS ID: CO0121724

Laboratory ID: CO 00008

System Name: Sterling Ranch MD

Laboratory Name: Hazen Research, Inc.

Contact Person:

Contact Person: Jessica Axen

Phone #: 303-279-4501

Comments:

Comments:

Do Samples Need to be Composited BY THE LAB?

## Section III (Supplied or Completed by Public Water System)

Sample Date: 03/23/2017 Collector: Facility ID (On Schedule): Sample Pt ID (On Schedule):

## Section IV Radionuclides (Supplied or Completed by Certified Laboratory)

Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name (Code)	CAS No.	Analytical Method	MCL	Lab MRL	Result
03/24/2017	04/18/2017	C27017-001	Gross Alpha Including Uranium (4002)	12587-46-1	SM 7110 B	N/A	1.5	0.0(±1.5)
			Combined Uranium (4006)	7440-61-1	D2907-97	30 ug/L		
03/24/2017	04/07/2017	C27017-001	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 -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 Beta (4100)	12587-47-2	SM 7110 B	50 pCi/L.*	2.1	0.0(±2.0)
			Total Dissolved Solids (1930)		EPA 160.3	N/A		

\*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.

## Section V Calculated Values

Gross Alpha Excluding Uranium (4000)	Calculated Value
N/A	15 pCi/L
Combined Radium {-226 & -228} (4010)	Calculated Value
	5 pCi/L

NT: Not Tested

ug/L: Micrograms per Liter

Lab MRL: Laboratory Minimum Reporting Level

pCi/L: Picoocuries per Liter

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

MCL: Maximum Contaminant Level



### Drinking Water Chain of Custody



**Colorado Analytical Laboratories, Inc.**  
 Brighton Lab  
 240 South Main Street  
 Brighton, CO 80601  
 Lakewood Lab  
 12860 W. Cedar Dr, Suite 101  
 Lakewood CO 80228  
 Phone: 303-659-2313  
 Fax: 303-659-2315  
[www.coloradolab.com](http://www.coloradolab.com)

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>Colorado Analytical Labs</u>		Company Name: <u>same</u>		PWSID: <u>C00121724</u>	
Contact Name: <u>Stuart Nielson</u>		Contact Name: _____		System Name: <u>Sterling Ranch MID</u>	
Address: <u>P.O. Box 507</u>		Address: _____		System Address: <u>20 Boulder Crescent</u>	
City: <u>Brighton</u>		City: _____		City: <u>Colo Spgs</u> State: <u>CO</u> Zip: <u>80903</u>	
State: <u>CO</u> Zip: <u>80601</u>		State: _____		County: <u>El Paso</u>	
Phone: <u>303-659-2313</u>		Phone: _____		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Fax: <u>303-659-2315</u>		Fax: _____		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Email: <u>stuartnielson@coloradolab.com</u>		Email: _____			
Sampler Name: _____		PO No.: _____			

<b>CAL Task No.</b> 170324007										<b>PHASE I, II, V Drinking Water Analyses (check analysis)</b>										<b>Subcontract Analyses</b>																
ARF										No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha /Beta	Radium 226	Radium 228	Radon	Uranium
Date	Time	Client Sample ID / EP Code									6																									
3/23/17	08:03	170324007 Sterling Ranch MID										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Instructions: Gross Alpha, without Radon & Uranium. \*\* Combined Radium -226 & -228.  
 Please print results on Colorado State form but do not submit to CDPHE. Thank you.

Relinquished By: <i>Amel</i>	Date/Time: 3/23/17 11:50	Received By: _____	Date/Time: _____	Delivered Via: <u>HD</u>	C/S Info: _____	C/S Change <input type="checkbox"/>	Date/Time: _____	Temp. <input type="checkbox"/> °C/ice <input type="checkbox"/>	Sample Pres Yes <input type="checkbox"/> No <input type="checkbox"/>	Headspace Yes <input type="checkbox"/> No <input type="checkbox"/>	Relinquished By: <i>Amel</i>	Date/Time: 03/24/2017
------------------------------	--------------------------	--------------------	------------------	--------------------------	-----------------	-------------------------------------	------------------	--	--	--	------------------------------	-----------------------

## Analytical Results

TASK NO: 170324007

Report To: Mark Volle

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

Bill To: Jim Morley

Company: SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

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

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

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

Facility ID: New Well  
Sample Point ID: New Well

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	1.3 mg/L	EPA 300.0	0.1 mg/L	3/24/17	LJG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	3/28/17	VDB
E-Coli	< 1 mpn/100ml	Coli fert	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	Coli fert	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
<b>Total</b>					
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 CaCO <sub>3</sub>	SM 2340-B	0.1 mg/L as CaCO <sub>3</sub>	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 = Micrograms Per Liter or PPB  
mpn/100 ml = Most Probable Number Index/ 100 ml  
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

## Analytical Results

**TASK NO: 170324007**

**Report To:** Mark Volle

**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley

**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

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

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

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

**Facility ID:** New Well  
**Sample Point ID:** New Well

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Total</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 mls = Most Probable Number Index/ 100 mls  
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY



**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

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

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

**Drinking Water Chain of Custody**

page lot 2

**Report To Information**  
Company Name: JDS-Hydro Consultants  
Contact Name: Mark Volle  
Address: 545 E. Pikes Peak Ave, Suite 300  
City: CS, State: CO, Zip: 80903  
Phone: 719-287-0072 Fax: [blank]Email: m.volle@jdshydro.com

**Sampler Name:** Stephanie Schwenke PO No.: [blank]

**Bill To Information (if different from report to)**  
Company Name: SR WATER  
Contact Name: JIM MORLEY  
Address: 20 BOWLER CRESCENT  
City: COLO, State: CO, Zip: 80905  
County: EL PASO  
Compliance Samples: Yes  No   
Send Forms to State: Yes  No

CAL Task No. 170324007			PHASE I, II, V Drinking Water Analyses (check analysis)		Subcontract Analyses																													
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBS	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbonates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium					
																														C/S Info:	Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Headspace Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
3-23	7:55	#1	1					X					X																					
	7:57	#2	1					X					X																					
	8:11	#3 8:05	2		X																					X	X							
	7:52	#4	1																															
	7:52am	#5	1																							X	X							
	7:53	#6	3																															
	7:58	#7 no H2SO4 preservative included in	2																					X										
V	7:59	#8	1										X																					
	8:00	#9	1																		X	X												
	8:00	#10	1																		X	X												

**Instructions:** No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive the shipment.

**Relinquished By:** [Signature] Date/Time: 3-23 11:30am  
**Received By:** [Signature] Date/Time: 3/24/17 10:10

**Delivered Via:** Fed Ex  
**Temp:** 3.3 °C/lec  
**C/S Charge:**   
**C/S Info:**

Drinking Water Chain of Custody

page 2 of 2



**Brighton Lab**  
 240 South Main Street  
 Brighton, CO 80601

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

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

[www.coloradolab.com](http://www.coloradolab.com)

Report To Information		Bill To Information (if different from report to)	
Company Name: <b>JDS-Hydro Consultants</b>	Company Name: <b>SR Water</b>	PWSID: <b>CO 0121724</b>	State Form / Project Information
Contact Name: <b>Mark Volle</b>	Contact Name: <b>Jim Morley</b>	System Name: <b>Serling Ranch MD</b>	
Address: <b>545 E. Pikes Peak Ave Suite 300</b>	Address: <b>20 Boulder Crescent</b>	Address: <b>20 Boulder Crescent</b>	
City <b>CS</b> State <b>CO</b> Zip <b>80903</b>	City <b>CS</b> State <b>CO</b> Zip <b>80903</b>	City <b>CS</b> State <b>CO</b> Zip <b>80903</b>	
Phone: <b>719-227-0072</b> Fax: _____	Phone: _____ Fax: _____	County: <b>El Paso</b>	
E-mail: <b>MVolle@jds-hydro.com</b>	E-mail: <b>Jimorley3870@aol.com</b>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <b>Sophene Schuster</b> PO No.:		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Date	Time	Client Sample ID / BP Code	PHASE I, II, V Drinking Water Analyses (check analysis)																Subcontract Analyses																						
			No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/D/BCP	505 Pests/PCBs	515.4 Herbicides	515.4 <del>Herbicides</del>	525.2 SOCs-Pest	531.1 Carbonates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	52.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	(TOC, DOC (Circle)	SUVA, UV 254 (Circle)	X cyanic	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium										
3-23	8:01	#11	1																																						
	8:00 am	#12	3																																						
	8:26	#14	3																																						
	8:18	#15	2																																						
	8:12	#16 (1,4 Dioxane)	3																																						
	8:20	#17	2																																						
	8:21	#18	2																																						
	8:15	#19	3																																						
	8:19	#20	3																																						

Instructions: \_\_\_\_\_

Relinquished By: *[Signature]* Date/Time: 3-23 11:30am

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_



# 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	Receive Date	Matrix	Test
C17030850-001	170324007 Sterling Ranch MD	03/23/17 8:03	03/28/17	Groundwater	Azeotropic Distillation 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:

  
Randy Horton, Project Manager

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



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

**CLIENT:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD  
**Work Order:** C17030850

**Report Date:** 04/06/17

## CASE NARRATIVE

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



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

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

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

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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#### VOCS BY AZEOTROPIC DISTILLATION

1,4-Dioxane	ND	ug/L		1.0		SW8260M	04/06/17 09:34 / 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	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 / eli-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
Bromochloromethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Bromodichloromethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Bromoform	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Bromomethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Carbon disulfide	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Carbon tetrachloride	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Chlorobenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Chlorodibromomethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Chloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
2-Chloroethyl vinyl ether	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
2-Chlorotoluene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
4-Chlorotoluene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,2-Dibromoethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Dibromomethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,2-Dichlorobenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,3-Dichlorobenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,4-Dichlorobenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Dichlorodifluoromethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1-Dichloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,2-Dichloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1-Dichloroethene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
cis-1,2-Dichloroethene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
trans-1,2-Dichloroethene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,2-Dichloropropane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,3-Dichloropropane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
2,2-Dichloropropane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1-Dichloropropene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
cis-1,3-Dichloropropene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
trans-1,3-Dichloropropene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Ethylbenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b

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

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.





### 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  
**Date Received:** 03/28/17  
**Matrix:** Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Methyl tert-butyl ether (MTBE)	ND	ug/L		2.0		E624	03/31/17 16:09 / eli-b
Methyl ethyl ketone	ND	ug/L		20		E624	03/31/17 16:09 / eli-b
Methyl isobutyl ketone	ND	ug/L		10		E624	03/31/17 16:09 / eli-b
Methylene chloride	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Naphthalene	ND	ug/L		0.50		E624	03/31/17 16:09 / eli-b
Styrene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Tetrachloroethene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Toluene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Trichloroethene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1,1-Trichloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1,2-Trichloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Trichlorofluoromethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,2,3-Trichloropropane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Vinyl Acetate	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Vinyl chloride	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
m+p-Xylenes	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
o-Xylene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Xylenes, Total	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Surr: 1,2-Dichloroethane-d4	105	%REC		71-139		E624	03/31/17 16:09 / eli-b
Surr: p-Bromofluorobenzene	102	%REC		80-127		E624	03/31/17 16:09 / eli-b
Surr: Toluene-d8	92.0	%REC		80-123		E624	03/31/17 16:09 / eli-b

### SEMI-VOLATILE ORGANIC COMPOUNDS

Acenaphthene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Acenaphthylene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Anthracene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Azobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzidine	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzo(a)anthracene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzo(a)pyrene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzo(b)fluoranthene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzo(g,h,i)perylene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzo(k)fluoranthene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
4-Bromophenyl phenyl ether	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Butylbenzylphthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
4-Chloro-3-methylphenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
bis(-2-chloroethoxy)Methane	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
bis(-2-chloroethyl)Ether	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
bis(2-chloroisopropyl)Ether	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2-Chloronaphthalene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2-Chlorophenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b

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

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ND - Not detected at the reporting limit.



### 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  
**Date Received:** 03/28/17  
**Matrix:** Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
4-Chlorophenyl phenyl ether	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Chrysene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Diethyl phthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Di-n-butyl phthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
1,2-Dichlorobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-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
3,3'-Dichlorobenzidine	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2,4-Dichlorophenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Dimethyl phthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Di-n-octyl phthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-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 / eli-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 / eli-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 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10		E625	03/30/17 17:14 / eli-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 / eli-b
4-Nitrophenol	ND	ug/L		50		E625	03/30/17 17:14 / eli-b
Naphthalene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Nitrobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Pentachlorophenol	ND	ug/L		50		E625	03/30/17 17:14 / eli-b
Phenanthrene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Phenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Pyrene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
1,2,4-Trichlorobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2,4,6-Trichlorophenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Surr: 2-Fluorobiphenyl	61.0	%REC		28-107		E625	03/30/17 17:14 / eli-b
Surr: 2-Fluorophenol	39.0	%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: Phenol-d5	27.0	%REC		19-45		E625	03/30/17 17:14 / eli-b

**Report** RL - Analyte reporting limit.  
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### 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  
**Date Received:** 03/28/17  
**Matrix:** Groundwater

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

**Report** RL - Analyte reporting limit.  
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# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Analytical Run: R277281		
Lab ID: ccv033117	Continuing Calibration Verification Standard						03/31/17 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-Chlorotoluene	5.44	ug/L	0.50	109	70	130			
1,2-Dibromoethane	4.68	ug/L	0.50	94	70	130			
Dibromomethane	4.96	ug/L	0.50	99	70	130			
1,2-Dichlorobenzene	5.04	ug/L	0.50	101	70	130			
1,3-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			
cis-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.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# 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
<b>Method: E624</b>							Analytical Run: R277281		
<b>Lab ID:</b> ccv033117	Continuing Calibration Verification Standard							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-Tetrachloroethane	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			
Trichloroethene	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			
Trichlorofluoromethane	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			

<b>Method: E624</b>							Batch: R277281		
<b>Lab ID:</b> lcs033117	Laboratory Control Sample					Run: 5971A.L_170331A	03/31/17 09:19		
Acetone	56.0	ug/L	20	112	55	144			
Acetonitrile	56.8	ug/L	20	114	54	142			
Acrolein	42.4	ug/L	20	85	16	233			
Acrylonitrile	48.4	ug/L	20	97	76	127			
Benzene	4.92	ug/L	0.50	98	73	122			
Bromobenzene	4.96	ug/L	0.50	99	74	129			
Bromochloromethane	5.16	ug/L	0.50	103	66	120			
Bromodichloromethane	5.16	ug/L	0.50	103	74	128			
Bromoform	5.12	ug/L	0.50	102	66	128			
Bromomethane	4.76	ug/L	0.50	95	51	123			
Carbon disulfide	5.36	ug/L	0.50	107	46	145			
Carbon tetrachloride	5.72	ug/L	0.50	114	75	125			
Chlorobenzene	4.64	ug/L	0.50	93	80	123			
Chlorodibromomethane	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.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>							<b>Batch: R277281</b>		
<b>Lab ID: Ics033117</b>	<b>Laboratory Control Sample</b>				<b>Run: 5971A.I_170331A</b>		<b>03/31/17 09:19</b>		
1,2-Dichlorobenzene	4.96	ug/L	0.50	99	74	124			
1,3-Dichlorobenzene	5.12	ug/L	0.50	102	77	122			
1,4-Dichlorobenzene	4.96	ug/L	0.50	99	76	126			
Dichlorodifluoromethane	5.60	ug/L	0.50	112	56	146			
1,1-Dichloroethane	4.72	ug/L	0.50	94	74	133			
1,2-Dichloroethane	5.76	ug/L	0.50	115	75	129			
1,1-Dichloroethene	5.16	ug/L	0.50	103	74	132			
cis-1,2-Dichloroethene	4.88	ug/L	0.50	98	81	122			
trans-1,2-Dichloroethene	5.12	ug/L	0.50	102	79	143			
1,2-Dichloropropane	4.60	ug/L	0.50	92	75	126			
1,3-Dichloropropane	4.68	ug/L	0.50	94	71	136			
2,2-Dichloropropane	5.68	ug/L	0.50	114	68	142			
1,1-Dichloropropene	5.00	ug/L	0.50	100	70	131			
cis-1,3-Dichloropropene	4.40	ug/L	0.50	88	74	135			
trans-1,3-Dichloropropene	4.84	ug/L	0.50	97	76	149			
Ethylbenzene	4.96	ug/L	0.50	99	72	130			
Methyl tert-butyl ether (MTBE)	5.12	ug/L	0.50	102	72	120			
Methyl ethyl ketone	52.0	ug/L	20	104	45	130			
Methyl isobutyl ketone	50.8	ug/L	20	102	58	135			
Methylene chloride	6.08	ug/L	0.50	122	66	142			
Naphthalene	5.60	ug/L	0.50	112	69	124			
Styrene	4.56	ug/L	0.50	91	80	124			
Tetrachloroethene	4.72	ug/L	0.50	94	72	131			
1,1,1,2-Tetrachloroethane	4.64	ug/L	0.50	93	78	124			
1,1,2,2-Tetrachloroethane	4.76	ug/L	0.50	95	68	137			
Toluene	4.76	ug/L	0.50	95	72	135			
Trichloroethene	4.80	ug/L	0.50	96	85	126			
1,1,1-Trichloroethane	5.40	ug/L	0.50	108	63	120			
1,1,2-Trichloroethane	4.48	ug/L	0.50	90	78	124			
Trichlorofluoromethane	4.52	ug/L	0.50	90	72	120			
1,2,3-Trichloropropane	4.68	ug/L	0.50	94	64	138			
Vinyl Acetate	4.76	ug/L	1.0	95	31	124			
Vinyl chloride	4.76	ug/L	0.50	95	58	140			
m+p-Xylenes	9.06	ug/L	0.50	91	67	139			
o-Xylene	4.48	ug/L	0.50	90	74	135			
Xylenes, Total	13.6	ug/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			
<b>Lab ID: blk033117</b>	<b>Method Blank</b>				<b>Run: 5971A.I_170331A</b>		<b>03/31/17 10:16</b>		
Acetone	ND	ug/L	20						
Acetonitrile	ND	ug/L	20						

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>							Batch: R277281		
<b>Lab ID: blk033117</b>	Method Blank		Run: 5971A.I_170331A				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-Chlorotoluene	ND	ug/L			0.50				
4-Chlorotoluene	ND	ug/L			0.50				
1,2-Dibromoethane	ND	ug/L			0.50				
Dibromomethane	ND	ug/L			0.50				
1,2-Dichlorobenzene	ND	ug/L			0.50				
1,3-Dichlorobenzene	ND	ug/L			0.50				
1,4-Dichlorobenzene	ND	ug/L			0.50				
Dichlorodifluoromethane	ND	ug/L			0.50				
1,1-Dichloroethane	ND	ug/L			0.50				
1,2-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-Dichloropropene	ND	ug/L			0.50				
trans-1,3-Dichloropropene	ND	ug/L			0.50				
Ethylbenzene	ND	ug/L			0.50				
Methyl tert-butyl ether (MTBE)	ND	ug/L			0.50				
Methyl ethyl ketone	ND	ug/L			20				
Methyl isobutyl ketone	ND	ug/L			20				
Methylene chloride	ND	ug/L			0.50				
Naphthalene	ND	ug/L			0.50				
Styrene	ND	ug/L			0.50				
Tetrachloroethene	ND	ug/L			0.50				

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>							Batch: R277281		
<b>Lab ID: blk033117</b>	Method Blank		Run: 5971A.I_170331A				03/31/17 10:18		
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
1,1,1-Trichloroethane	ND	ug/L	0.50						
1,1,2-Trichloroethane	ND	ug/L	0.50						
Trichlorofluoromethane	ND	ug/L	0.50						
1,2,3-Trichloropropane	ND	ug/L	0.50						
Vinyl Acetate	ND	ug/L	1.0						
Vinyl chloride	ND	ug/L	0.50						
m+p-Xylenes	ND	ug/L	0.50						
o-Xylene	ND	ug/L	0.50						
Xylenes, Total	ND	ug/L	0.50						
Surr: 1,2-Dichloroethane-d4			0.50	105	71	139			
Surr: p-Bromofluorobenzene			0.50	104	80	127			
Surr: Toluene-d8			0.50	92	80	123			
<b>Lab ID: b17031875-001dms</b>							Run: 5971A.I_170331A		
Sample Matrix Spike						03/31/17 14:12			
Acetone	378	ug/L	100	109	55	144			
Acetonitrile	274	ug/L	100	110	54	142			
Benzene	24.6	ug/L	2.5	98	73	122			
Bromobenzene	24.8	ug/L	2.5	99	74	129			
Bromochloromethane	25.2	ug/L	2.5	101	66	120			
Bromodichloromethane	26.2	ug/L	2.5	105	74	128			
Bromoform	27.0	ug/L	2.5	108	66	128			
Bromomethane	18.8	ug/L	2.5	75	51	123			
Carbon disulfide	26.4	ug/L	2.5	106	46	145			
Carbon tetrachloride	28.2	ug/L	2.5	113	75	125			
Chlorobenzene	22.8	ug/L	2.5	91	80	123			
Chlorodibromomethane	26.8	ug/L	2.5	107	74	125			
Chloroethane	20.2	ug/L	2.5	81	59	142			
Chloroform	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			
4-Chlorotoluene	25.8	ug/L	2.5	103	74	129			
1,2-Dibromoethane	24.0	ug/L	2.5	96	76	124			
Dibromomethane	26.2	ug/L	2.5	105	77	125			
1,2-Dichlorobenzene	24.6	ug/L	2.5	98	74	124			
1,3-Dichlorobenzene	24.6	ug/L	2.5	98	77	122			
1,4-Dichlorobenzene	24.6	ug/L	2.5	98	76	126			
Dichlorodifluoromethane	27.0	ug/L	2.5	108	56	146			
1,1-Dichloroethane	24.2	ug/L	2.5	97	74	133			
1,2-Dichloroethane	29.2	ug/L	2.5	117	75	129			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch: R277281		
Lab ID: b17031875-001dms	Sample Matrix Spike		Run: 5971A.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-Dichloropropene	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-Tetrachloroethane	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: 5971A.I_170331A				03/31/17 15:11		
Acetone	410	ug/L	100	122	55	144	8.1	20	
Acetonitrile	262	ug/L	100	105	54	142	4.5	20	
Benzene	25.0	ug/L	2.5	100	73	122	1.6	20	
Bromobenzene	25.6	ug/L	2.5	102	74	129	3.2	20	
Bromochloromethane	25.2	ug/L	2.5	101	66	120	0.0	20	
Bromodichloromethane	27.2	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.

ND - Not detected at the reporting limit.

# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>									Batch: R277281
<b>Lab ID: b17031875-001dmsd</b>	<b>Sample Matrix Spike Duplicate</b>				<b>Run: 5971A.I_170331A</b>				<b>03/31/17 15:11</b>
Carbon disulfide	25.6	ug/L	2.5	102	46	145	3.1	20	
Carbon tetrachloride	28.6	ug/L	2.5	114	75	125	1.4	20	
Chlorobenzene	23.6	ug/L	2.5	94	80	123	3.4	20	
Chlorodibromomethane	28.0	ug/L	2.5	112	74	125	4.4	20	
Chloroethane	20.6	ug/L	2.5	82	59	142	2.0	20	
Chloroform	33.6	ug/L	2.5	111	68	124	1.2	20	
Chloromethane	19.3	ug/L	2.5	77	53	146	3.8	20	
2-Chlorotoluene	26.4	ug/L	2.5	106	75	131	6.2	20	
4-Chlorotoluene	27.2	ug/L	2.5	109	74	129	5.3	20	
1,2-Dibromoethane	24.0	ug/L	2.5	96	76	124	0.0	20	
Dibromomethane	26.8	ug/L	2.5	107	77	125	2.3	20	
1,2-Dichlorobenzene	25.8	ug/L	2.5	103	74	124	4.8	20	
1,3-Dichlorobenzene	26.0	ug/L	2.5	104	77	122	5.5	20	
1,4-Dichlorobenzene	25.4	ug/L	2.5	102	76	126	3.2	20	
Dichlorodifluoromethane	25.8	ug/L	2.5	103	56	146	4.5	20	
1,1-Dichloroethane	24.8	ug/L	2.5	99	74	133	2.4	20	
1,2-Dichloroethane	29.2	ug/L	2.5	117	75	129	0.0	20	
1,1-Dichloroethene	26.8	ug/L	2.5	107	74	132	0.7	20	
cis-1,2-Dichloroethene	25.2	ug/L	2.5	101	81	122	3.2	20	
trans-1,2-Dichloroethene	26.4	ug/L	2.5	106	79	143	2.3	20	
1,2-Dichloropropane	23.6	ug/L	2.5	94	75	126	2.6	20	
1,3-Dichloropropane	23.8	ug/L	2.5	95	71	136	6.1	20	
2,2-Dichloropropane	28.6	ug/L	2.5	114	68	142	2.1	20	
1,1-Dichloropropene	25.8	ug/L	2.5	103	70	131	2.4	20	
cis-1,3-Dichloropropene	23.2	ug/L	2.5	93	74	135	4.4	20	
trans-1,3-Dichloropropene	25.4	ug/L	2.5	102	76	149	3.2	20	
Ethylbenzene	25.0	ug/L	2.5	100	72	130	5.8	20	
Methyl tert-butyl ether (MTBE)	26.6	ug/L	2.5	106	72	120	3.8	20	
Methyl ethyl ketone	292	ug/L	100	117	45	130	8.6	20	
Methyl isobutyl ketone	286	ug/L	100	114	58	135	10	20	
Methylene chloride	31.4	ug/L	2.5	126	66	142	2.5	20	
Naphthalene	27.8	ug/L	2.5	111	69	124	0.7	20	
Styrene	22.8	ug/L	2.5	91	80	124	1.8	20	
Tetrachloroethene	23.8	ug/L	2.5	95	72	131	4.3	20	
1,1,1,2-Tetrachloroethane	23.2	ug/L	2.5	93	78	124	0.9	20	
1,1,2,2-Tetrachloroethane	27.4	ug/L	2.5	110	68	137	5.2	20	
Toluene	24.4	ug/L	2.5	95	72	135	0.0	20	
Trichloroethene	25.0	ug/L	2.5	100	85	126	4.9	20	
1,1,1-Trichloroethane	27.4	ug/L	2.5	110	63	120	2.2	20	
1,1,2-Trichloroethane	24.8	ug/L	2.5	99	78	124	5.8	20	
Trichlorofluoromethane	22.4	ug/L	2.5	90	72	120	5.5	20	
1,2,3-Trichloropropane	26.8	ug/L	2.5	107	64	138	2.3	20	
Vinyl Acetate	24.4	ug/L	5.0	98	31	124	0.0	20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> E624									<b>Batch:</b> R277281
<b>Lab ID:</b> b17031875-001dmsd	<b>Sample Matrix</b>	<b>Spike Duplicate</b>				<b>Run:</b> 5971A.I_170331A			<b>03/31/17 15:11</b>
Vinyl chloride	22.8	ug/L	2.5	91	58	140	0.9	20	
m+p-Xylenes	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, 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: Toluene-d8			2.5	93	80	123			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc

**Report Date:** 04/06/17

**Project:** 170324007 Sterling Ranch MD

**Work Order:** C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>									Batch: 107942
<b>Lab ID: MB-107942</b>	Method Blank						Run: SV5973N2.I_170330B		03/30/17 16:12
Acenaphthene	ND	ug/L							10
Acenaphthylene	ND	ug/L							10
Anthracene	ND	ug/L							10
Azobenzene	ND	ug/L							10
Benzidine	ND	ug/L							10
Benzo(a)anthracene	ND	ug/L							10
Benzo(a)pyrene	ND	ug/L							10
Benzo(b)fluoranthene	ND	ug/L							10
Benzo(g,h,i)perylene	ND	ug/L							10
Benzo(k)fluoranthene	ND	ug/L							10
4-Bromophenyl phenyl ether	ND	ug/L							10
Butylbenzylphthalate	ND	ug/L							10
4-Chloro-3-methylphenol	ND	ug/L							10
bis(-2-chloroethoxy)Methane	ND	ug/L							10
bis(-2-chloroethyl)Ether	ND	ug/L							10
bis(2-chloroisopropyl)Ether	ND	ug/L							10
2-Chloronaphthalene	ND	ug/L							10
2-Chlorophenol	ND	ug/L							10
4-Chlorophenyl phenyl ether	ND	ug/L							10
Chrysene	ND	ug/L							10
Diethyl phthalate	ND	ug/L							10
Di-n-butyl phthalate	ND	ug/L							10
1,2-Dichlorobenzene	ND	ug/L							10
1,3-Dichlorobenzene	ND	ug/L							10
1,4-Dichlorobenzene	ND	ug/L							10
3,3'-Dichlorobenzidine	ND	ug/L							10
2,4-Dichlorophenol	ND	ug/L							10
Dimethyl phthalate	ND	ug/L							10
Di-n-octyl phthalate	ND	ug/L							10
Dibenzo(a,h)anthracene	ND	ug/L							10
2,4-Dimethylphenol	ND	ug/L							10
4,6-Dinitro-2-methylphenol	ND	ug/L							50
2,4-Dinitrophenol	ND	ug/L							50
2,4-Dinitrotoluene	ND	ug/L							10
2,6-Dinitrotoluene	ND	ug/L							10
bis(2-ethylhexyl)Phthalate	ND	ug/L							10
Fluoranthene	ND	ug/L							10
Fluorene	ND	ug/L							10
Hexachlorobenzene	ND	ug/L							10
Hexachlorobutadiene	ND	ug/L							10
Hexachlorocyclopentadiene	ND	ug/L							10
Hexachloroethane	ND	ug/L							10
Indeno(1,2,3-cd)pyrene	ND	ug/L							10

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc

**Report Date:** 04/06/17

**Project:** 170324007 Sterling Ranch MD

**Work Order:** C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>							<b>Batch: 107942</b>		
<b>Lab ID: MB-107942</b>	<b>Method Blank</b>		<b>Run: SV5973N2.I_170330B</b>				<b>03/30/17 16:12</b>		
Isophorone	ND	ug/L	10						
n-Nitrosodimethylamine	ND	ug/L	10						
n-Nitroso-di-n-propylamine	ND	ug/L	10						
n-Nitrosodiphenylamine	ND	ug/L	10						
2-Nitrophenol	ND	ug/L	10						
4-Nitrophenol	ND	ug/L	50						
Naphthalene	ND	ug/L	10						
Nitrobenzene	ND	ug/L	10						
Pentachlorophenol	ND	ug/L	50						
Phenanthrene	ND	ug/L	10						
Phenol	ND	ug/L	10						
Pyrene	ND	ug/L	10						
1,2,4-Trichlorobenzene	ND	ug/L	10						
2,4,6-Trichlorophenol	ND	ug/L	10						
Surr: 2-Fluorobiphenyl			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			
<b>Lab ID: LCS-107942</b>	<b>Laboratory Control Sample</b>		<b>Run: SV5973N2.I_170330B</b>				<b>03/30/17 16:43</b>		
Acenaphthene	89.1	ug/L	10	89	58	99			
Acenaphthylene	84.2	ug/L	10	84	57	96			
Anthracene	75.6	ug/L	10	76	60	107			
Azobenzene	78.0	ug/L	10	78	56	100			
Benzidine	53.1	ug/L	10	53	10	100			
Benzo(a)anthracene	86.4	ug/L	10	86	62	114			
Benzo(a)pyrene	84.7	ug/L	10	85	62	108			
Benzo(b)fluoranthene	89.8	ug/L	10	90	48	127			
Benzo(g,h,i)perylene	87.2	ug/L	10	87	62	121			
Benzo(k)fluoranthene	84.0	ug/L	10	84	55	111			
4-Bromophenyl phenyl ether	87.1	ug/L	10	87	58	105			
Butylbenzylphthalate	90.8	ug/L	10	91	60	113			
4-Chloro-3-methylphenol	74.6	ug/L	10	75	53	92			
bis(2-chloroethoxy)Methane	69.9	ug/L	10	70	50	92			
bis(2-chloroethyl)Ether	72.1	ug/L	10	72	44	82			
bis(2-chloroisopropyl)Ether	63.2	ug/L	10	63	56	87			
2-Chloronaphthalene	84.9	ug/L	10	85	56	95			
2-Chlorophenol	67.2	ug/L	10	67	47	76			
4-Chlorophenyl phenyl ether	83.0	ug/L	10	83	58	99			
Chrysene	87.0	ug/L	10	87	63	106			
Diethyl phthalate	84.6	ug/L	10	85	58	103			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batch: 107942		
Lab ID: LCS-107942	Laboratory Control Sample			Run: SV5973N2.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			
Hexachlorobutadiene	71.7	ug/L	10	72	39	83			
Hexachlorocyclopentadiene	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-Nitrosodiphenylamine	91.5	ug/L	10	92	61	108			
2-Nitrophenol	72.3	ug/L	10	72	51	96			
4-Nitrophenol	27.4	ug/L	50	27	15	36			
Naphthalene	68.1	ug/L	10	68	48	96			
Nitrobenzene	77.9	ug/L	10	78	51	91			
Pentachlorophenol	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: Phenol-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.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>							<b>Batch: 107942</b>		
<b>Lab ID: C17030850-001CMS</b>	<b>Sample Matrix Spike</b>		<b>Run: SV5973N2.I_170330B</b>				<b>03/30/17 17:45</b>		
Acenaphthene	86.7	ug/L	10	87	58	99			
Acenaphthylene	75.5	ug/L	10	76	57	96			
Anthracene	81.6	ug/L	10	82	60	107			
Azobenzene	84.6	ug/L	10	85	56	100			
Benzidine	122	ug/L	20	122	10	100			S
Benzo(a)anthracene	83.4	ug/L	10	83	62	114			
Benzo(a)pyrene	78.4	ug/L	10	78	62	108			
Benzo(b)fluoranthene	79.9	ug/L	10	80	48	127			
Benzo(g,h,i)perylene	83.2	ug/L	10	83	62	121			
Benzo(k)fluoranthene	84.5	ug/L	10	84	55	111			
4-Bromophenyl phenyl ether	79.5	ug/L	10	79	58	105			
Butylbenzylphthalate	89.2	ug/L	10	89	60	113			
4-Chloro-3-methylphenol	78.3	ug/L	10	78	53	92			
bis(-2-chloroethoxy)Methane	77.9	ug/L	10	78	50	92			
bis(-2-chloroethyl)Ether	71.5	ug/L	10	71	44	82			
bis(2-chloroisopropyl)Ether	58.4	ug/L	10	58	56	87			
2-Chloronaphthalene	77.6	ug/L	10	78	56	95			
2-Chlorophenol	63.7	ug/L	10	64	47	76			
4-Chlorophenyl phenyl ether	81.0	ug/L	10	81	58	99			
Chrysene	85.9	ug/L	10	86	63	106			
Diethyl phthalate	84.0	ug/L	10	84	58	103			
Di-n-butyl phthalate	87.0	ug/L	10	87	61	110			
1,2-Dichlorobenzene	67.3	ug/L	10	67	43	81			
1,3-Dichlorobenzene	66.0	ug/L	10	66	41	79			
1,4-Dichlorobenzene	66.7	ug/L	10	67	42	79			
3,3'-Dichlorobenzidine	131	ug/L	10	131	51	93			S
2,4-Dichlorophenol	70.0	ug/L	10	70	49	90			
Dimethyl phthalate	79.3	ug/L	10	79	58	104			
Di-n-octyl phthalate	81.8	ug/L	10	82	56	110			
Dibenzo(a,h)anthracene	80.1	ug/L	10	80	61	111			
2,4-Dimethylphenol	70.7	ug/L	10	71	45	87			
4,6-Dinitro-2-methylphenol	53.1	ug/L	50	53	37	105			
2,4-Dinitrophenol	43.0	ug/L	50	43	27	81			
2,4-Dinitrotoluene	85.6	ug/L	10	86	63	110			
2,6-Dinitrotoluene	81.5	ug/L	10	81	60	107			
bis(2-ethylhexyl)Phthalate	77.5	ug/L	10	77	56	108			
Fluoranthene	84.0	ug/L	10	84	63	110			
Fluorene	80.0	ug/L	10	80	60	99			
Hexachlorobenzene	78.2	ug/L	10	78	57	103			
Hexachlorobutadiene	69.1	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	69.0	ug/L	10	69	39	91			
Hexachloroethane	62.6	ug/L	10	63	37	75			
Indeno(1,2,3-cd)pyrene	76.3	ug/L	10	76	59	109			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>							<b>Batch: 107942</b>		
<b>Lab ID: C17030850-001CMS</b>	<b>Sample Matrix Spike</b>		<b>Run: SV5973N2.I_170330B</b>				<b>03/30/17 17:45</b>		
Isophorone	71.4	ug/L	10	71	42	102			
n-Nitrosodimethylamine	26.1	ug/L	10	26	20	45			
n-Nitroso-di-n-propylamine	76.1	ug/L	10	76	49	98			
n-Nitrosodiphenylamine	105	ug/L	10	105	61	108			
2-Nitrophenol	73.5	ug/L	10	74	51	96			
4-Nitrophenol	25.8	ug/L	50	26	15	36			
Naphthalene	75.6	ug/L	10	76	48	96			
Nitrobenzene	75.6	ug/L	10	76	51	91			
Pentachlorophenol	60.3	ug/L	50	60	53	109			
Phenanthrene	83.8	ug/L	10	84	58	104			
Phenol	38.7	ug/L	10	39	27	45			
Pyrene	87.0	ug/L	10	87	64	108			
1,2,4-Trichlorobenzene	74.7	ug/L	10	75	49	85			
2,4,6-Trichlorophenol	68.8	ug/L	10	69	47	99			
Surr: 2-Fluorobiphenyl			10	51	28	107			
Surr: 2-Fluorophenol			10	41	20	56			
Surr: 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			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.





# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>							<b>Analytical Run: R277253</b>		
<b>Lab ID: 30-Mar-17_CCV_11</b>	<b>Continuing Calibration Verification Standard</b>						<b>03/30/17 15:40</b>		
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,i)perylene	78.0	ug/L	10	104	80	120			
Benzo(k)fluoranthene	81.6	ug/L	10	109	80	120			
4-Bromophenyl phenyl ether	81.6	ug/L	10	109	80	120			
Butylbenzylphthalate	78.0	ug/L	10	104	80	120			
4-Chloro-3-methylphenol	76.0	ug/L	10	101	80	120			
bis-(2-chloroethoxy)Methane	70.4	ug/L	10	94	80	120			
bis-(2-chloroethyl)Ether	77.2	ug/L	10	103	80	120			
bis(2-chloroisopropyl)Ether	76.7	ug/L	10	102	80	120			
2-Chloronaphthalene	79.8	ug/L	10	106	80	120			
2-Chlorophenol	72.7	ug/L	10	97	80	120			
4-Chlorophenyl phenyl ether	72.7	ug/L	10	97	80	120			
Chrysene	74.9	ug/L	10	100	80	120			
Diethyl phthalate	76.8	ug/L	10	102	80	120			
Di-n-butyl phthalate	76.9	ug/L	10	102	80	120			
1,2-Dichlorobenzene	76.8	ug/L	10	102	80	120			
1,3-Dichlorobenzene	72.1	ug/L	10	96	80	120			
1,4-Dichlorobenzene	74.8	ug/L	10	100	80	120			
3,3'-Dichlorobenzidine	76.2	ug/L	10	102	80	120			
2,4-Dichlorophenol	73.5	ug/L	10	98	80	120			
Dimethyl phthalate	77.0	ug/L	10	103	80	120			
Di-n-octyl phthalate	81.2	ug/L	10	108	80	120			
Dibenzo(a,h)anthracene	76.2	ug/L	10	102	80	120			
2,4-Dimethylphenol	70.3	ug/L	10	94	80	120			
4,6-Dinitro-2-methylphenol	77.4	ug/L	50	103	80	120			
2,4-Dinitrophenol	80.2	ug/L	50	107	80	120			
2,4-Dinitrotoluene	79.8	ug/L	10	106	80	120			
2,6-Dinitrotoluene	80.8	ug/L	10	108	80	120			
bis(2-ethylhexyl)Phthalate	77.3	ug/L	10	103	80	120			
Fluoranthene	76.8	ug/L	10	102	80	120			
Fluorene	82.8	ug/L	10	110	80	120			
Hexachlorobenzene	74.2	ug/L	10	99	80	120			
Hexachlorobutadiene	73.0	ug/L	10	97	80	120			
Hexachlorocyclopentadiene	79.2	ug/L	10	106	80	120			
Hexachloroethane	74.4	ug/L	10	99	80	120			
Indeno(1,2,3-cd)pyrene	73.3	ug/L	10	98	80	120			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the 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
<b>Method: E625</b>							Analytical Run: R277253		
<b>Lab ID: 30-Mar-17_CCV_11</b>	<b>Continuing Calibration Verification Standard</b>						03/30/17 15:40		
Isophorone	71.5	ug/L	10	95	80	120			
n-Nitrosodimethylamine	79.5	ug/L	10	106	80	120			
n-Nitroso-di-n-propylamine	76.0	ug/L	10	101	80	120			
n-Nitrosodiphenylamine	77.5	ug/L	10	103	80	120			
2-Nitrophenol	74.6	ug/L	10	99	80	120			
4-Nitrophenol	72.4	ug/L	50	97	80	120			
Naphthalene	68.4	ug/L	10	91	80	120			
Nitrobenzene	77.1	ug/L	10	103	80	120			
Pentachlorophenol	71.7	ug/L	50	96	80	120			
Phenanthrene	70.9	ug/L	10	95	80	120			
Phenol	79.0	ug/L	10	105	80	120			
Pyrene	79.0	ug/L	10	105	80	120			
1,2,4-Trichlorobenzene	73.1	ug/L	10	98	80	120			
2,4,6-Trichlorophenol	71.0	ug/L	10	95	80	120			
Surr: 2-Fluorobiphenyl			10	108	80	120			
Surr: 2-Fluorophenol			10	105	80	120			
Surr: Nitrobenzene-d5			10	101	80	120			
Surr: Phenol-d5			10	102	80	120			
Surr: Terphenyl-d14			10	104	80	120			
Surr: 2,4,6-Tribromophenol			10	105	80	120			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> SW8260M									Analytical Run: 108173
<b>Lab ID:</b> CCV-108173	Continuing Calibration Verification Standard								04/06/17 08:29
1,4-Dioxane	95.7	ug/L	1.0	96	80	120			
<b>Method:</b> SW8260M									Batch: 108173
<b>Lab ID:</b> LCS-108173	Laboratory Control Sample								04/06/17 08:51
1,4-Dioxane	87.5	ug/L	1.0	88	70	130			Run: VOA5973A.I_170406A
<b>Lab ID:</b> MB-108173	Method Blank								04/06/17 09:12
1,4-Dioxane	ND	ug/L	1.0						Run: VOA5973A.I_170406A
<b>Lab ID:</b> C17030850-001AMS	Sample Matrix Spike								04/06/17 09:55
1,4-Dioxane	194	ug/L	2.0	97	70	130			Run: VOA5973A.I_170406A
<b>Lab ID:</b> C17030850-001AMSD	Sample Matrix Spike Duplicate								04/06/17 10:17
1,4-Dioxane	206	ug/L	2.0	103	70	130	6.0	20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

C17030850

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 shipping container(s)/cooler(s)? Yes  No  Not Present
- Custody seals intact on all sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time?  
(Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) Yes  No
- Temp Blank received in all shipping container(s)/cooler(s)? Yes  No  Not Applicable
- Container/Temp Blank temperature: 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

# Chain of Custody Form



**Brighton Lab**  
 240 South Main Street  
 Brighton, CO 80601  
**Lakewood Lab**  
 12860 W. Cedar Dr, Suite 100A  
 Lakewood CO 80228  
 Phone: 303-659-2313  
 Fax: 303-659-2315  
 www.coloradolab.com

<b>Report To Information</b>		<b>Bill To Information (If different from report to)</b>	
Company Name: <u>Colorado Analytical Laboratory</u>		Company Name: <u>Same</u>	
Contact Name: <u>Stuart Nielson</u>		Contact Name: _____	
Address: P.O. Box <u>507</u> <u>240 S Main St</u>		Address: _____	
City <u>Brighton</u> State <u>CO</u> Zip <u>80601</u>	City _____ State _____ Zip _____	Phone: <u>303-659-2313</u> Fax: <u>303-659-2315</u>	Phone: _____ Fax: _____
E-mail: <u>stuartnielson@coloradolab.com</u>		E-mail: _____	
Sample Collector: _____		PO No.: _____	

Project Name <u>170324007</u> <u>Sterling Ranch MD</u>
Task Number (Lab Use Only) CAL Task No. <u>170324007</u>
Disposal Date (Lab Use Only) <u>ARF</u>

017030850

Date/Time	Waste Water <input type="checkbox"/>	Ground Water <input checked="" type="checkbox"/>	Surface Water <input type="checkbox"/>	Soil <input type="checkbox"/>	Sludge <input type="checkbox"/>	Compost <input type="checkbox"/>	Plant Tissue <input type="checkbox"/>	Other <input type="checkbox"/>	No. of Containers	Grab or (Check One Only) Composite	8260 1,4-Dioxane	624 Long List	625 SOCs	Seals Present	C/S Info	
															Yes <input type="checkbox"/>	No <input type="checkbox"/>
3/23/17 08:03									7		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temp. <u>6</u>	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>
															Temp. <u>6</u>	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>
															Temp. _____	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>
															Temp. _____	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>
															Temp. _____	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>
															Temp. _____	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>
															Temp. _____	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>
															Temp. _____	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>
															Temp. _____	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>
															Temp. _____	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>
															Temp. _____	Temp. Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>

Instructions: UPS to Energy Labs

Relinquished By: P.M. Chellan Date/Time: 3/27/17 1700

Received By: [Signature] Date/Time: 3-28-17