

Sterling Ranch Metropolitan District 1

WATER RESOURCES And WASTEWATER REPORT For Sterling Ranch Service Area

Updated February 2019

Prepared By:



CONSULTANTS, INC.

5540 Tech Center Drive • COLORADO SPRINGS, CO • 80919 • (719) 227-0072 • FAX (719) 471-3401

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 _{300 year}. <u>All of the six preliminary and final plats processed or being processed to date are contained within the original Phase One commitment area</u>.

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

The Ranch will also be served by SRMD#1. The Ranch has onsite water equivalent to 245 AF _{300 year} 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.

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

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 6th 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 septics. 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 nonentitled 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.

<u>Table 1</u> <u>Committed Water Demands for Sterling Ranch Service Area</u>

Service Area	SFE	Water-Acre Feet per Yr
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.

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

	Finding/			Annual	Annual	Approved	N .	Satur	
Land Formation/Aquifer	Determination/ Decree	Tributary Status	Volume	Allocation 100 Year	Allocation 300 Year	Well Locaions	Notes	Sand Thickness	Specifi Yield
			Acre-Feet	A-F/Year	A-F/Year				
	04 6994 10			n-Site Sterling			II 1 1410	0.55	1.50/
Laramie Fox Hills	86-CW-19 08CW113	NT NT	53,900 40	539.00 0.40	179.67 0.13	KLF-1 - KLF-4	Under 1410 acres Under 41.44 acres,	255	15%
	000 1115	111	40	0.40	0.15		reduced to 1.44 acres		
							reduced to 1.44 deres		
Arapahoe	86-CW-18	NT	57500	575.00	191.67	KA-1 - KA-4	Under 1410 acres	240	17%
	C	urrantly Avail	able On Site	Fikhorn (The	Panch) Wata	r Legal Sources			
Laramie Fox Hills	<u></u>	NT	17,000	170.00	56.67	Legui Sources	646.029 acres		
			<i>,</i>						
Arapahoe		NT	23600	236.00	78.67		646.029 acres		
Denver NNT		NNT	32900	329.00	109.67		646.029 acres		
	1.5.000.00	1		ite Retreat Wa	ter Legal Sou	rces (Note 1)		100	
Laramie Fox Hills	17CW3002	NT	6,440				Under 225.97 acres	190	15%
LFH (Relinquishment)	18CW3002	NT	-2,796	26.44	12.15				
			3,644	36.44	12.15				
Arapahoe	17CW3002	NT	9,796	97.96	32.65		Under 225.97 acres	255	17%
Laramie Fox Hills	16CW3095	NT	1,005	10.05	3.35		Under 35.28 Acres	190	15%
Arapahoe	16CW3095	NT	1,499				Under 35.28 Acres	250	17%
Arapahoe (Relinquishment)	16CW3095	NT	-1,324				Under 35.28 Acres	250	1770
			175	1.75	0.58				
Legal Supply: Phase 3,									
Phase 4 (excluding Lots 39-41)			14,620	146.20	48.73				
	190312002		2.706	27.04	0.22	29 Single Family Wells	Deplace a min of 240/ of		
Augmentation (Dawson NNT)	18CW3002	Aug	2,796	27.96	9.32	[Phase 2 (excluding Lots 11- 12); Lots 39, 40 & 41 of	Replace a min of 34% of		
Legal Supply: Phase 2					9.32	Phase 4; & 5]			
Augmentation (Dawson NNT)	16CW3095	Aug	1567.5	15.68	5.23		Replace actual depletions		
Legal Supply Phase 1		Curre	onthy Availa	ble Off-Site (5.23 Fround Wate	(Phase 1) r Legal Sources			
	10CW2005 (D . I' .)					(Phase 2 - Lots 11 &12)	numping		
Augmentation (Dawson NNT)	18CW3005 (Pending)	Aug	240.0	2.40	0.80	(Filase 2 - Lots 11 & 12)	pumping		
2)			240.0	2.4	0.8				
				ite Sterling Wa		urces (Bar-X)		T 1	
Laramie Fox Hills	93-CW-018	NT	55,200	552.00	184.00		Shamrock/Bar-x Rights	200	15%
otal Current Available 300-Year	Water Supply				849.2				
					0.0.12				
						ot included in the Total Availa			

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 _{300 year}
- Retreat at TimberRidge on site rights are 48.73 AF _{300 year}
- The Ranch on site rights- 245.0 AF _{300 year}

Of the Sterling rights, 9.16 AF $_{300 year}$ have been committed to the Retreat Service Area, leaving a net Sterling on-site availability of 546.31 AF $_{300 year}$.

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 $_{300 year}$ 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 $_{300 year}$, 255.96 $_{300 year}$, 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 _{300 year.}

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 #1District 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.

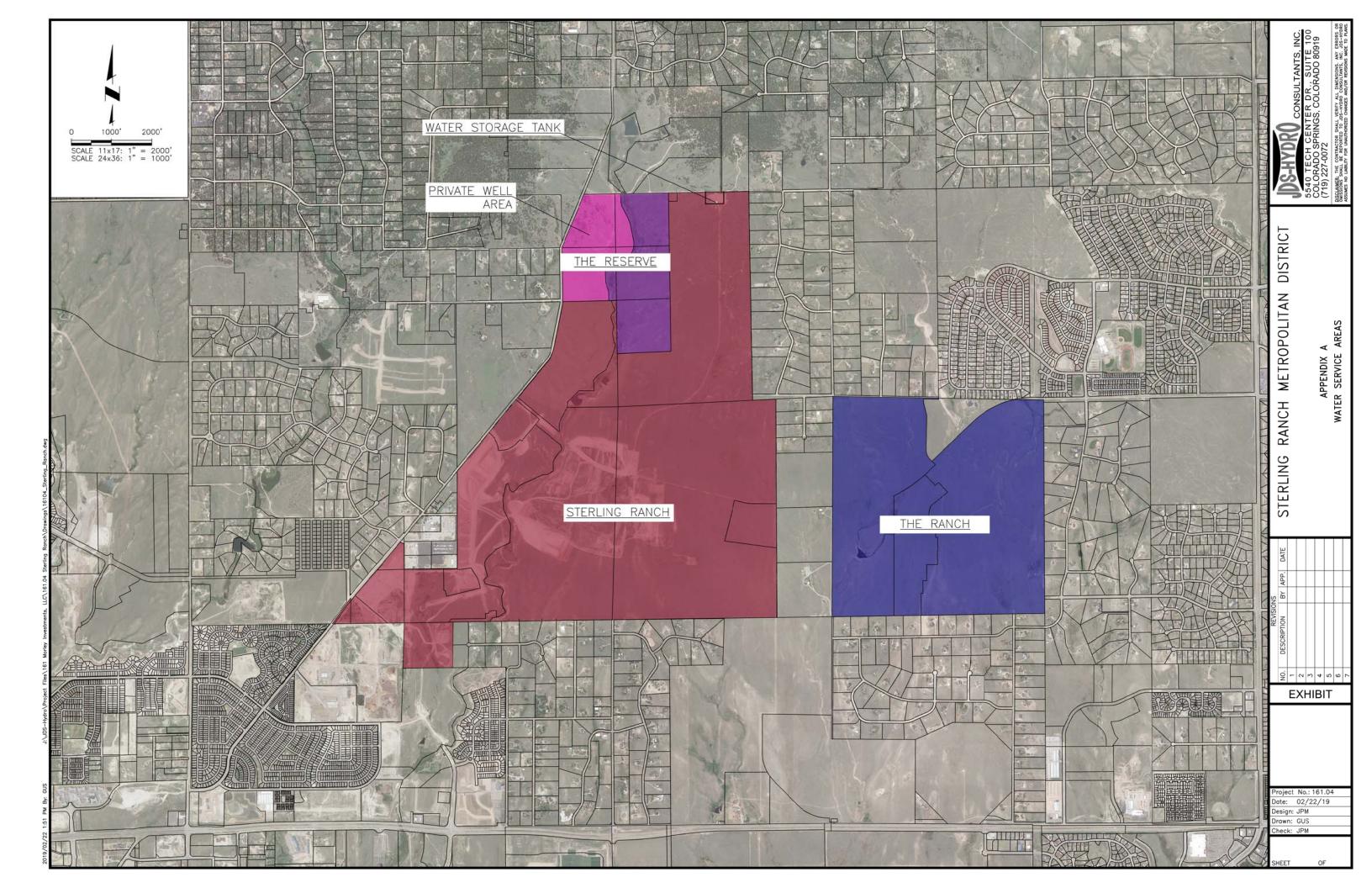
4.2 Wastewater Collection and Pumping

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



Appendix B

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

	<u>s</u>	ummary of Exi Acre-Feet 300	isting Available	e Supplies			
	Existing Available Supplies summarized from From Table 2	Year Non -	Acre-Feet 300 - Year UBS *				
	The Ranch Onsite (UBS)		245.00				
Water Supply Summary	Sterling Ranch Onsite Sterling Ranch Offsite Commit to Retreat	184.00		Onsite LFH from Bar -X			
er Supl							
Wate	Retreat Onsite (Central System Only) ** Commit from Sterling Ranch		-				
	Sterling Ranch Metropolitan District #1	Total AF	849.20				
			Water Commit Preliminary Com			Final Commitme	ante
	Development	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			
lg Cor	Excess Supply for Retreat at TimberRidge Service Area		0.00				
Remaining Excess	Excess Supply for Reference in Filliper Ruge Service Files		0.00				
	Sterling Ranch Available Supply from Above		546.31				
Supply							
	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
Commitments	Sterling Ranch Filing #1 Sterling Ranch Filing #2				0 49	0 17.296	Tracts Only Summary and Letter
Co	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 There are no Preliminary plans yet filed in The Ranch	0	0				
Remaining Excess	The Ranch Service Area		245.00				
Ren Ey							

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 considerd 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.

JDS-Hydro Consultants, Inc

Appendix C

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

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

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

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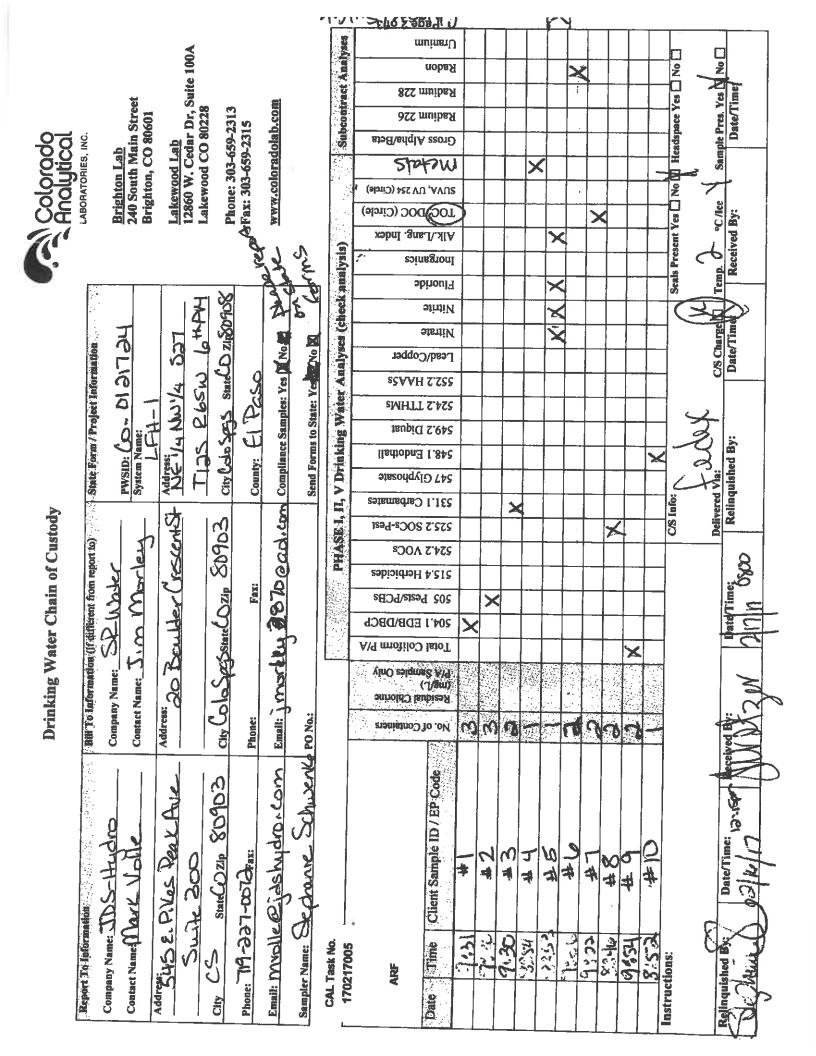
Subcontract Analyses muinsiU Lakewood Lab 12860 W. Cedar Dr, Suite 100A Temp. J. oc./ice A Sample Pres. Ves MNo Date/Time. Seals Present Yes 🗌 No 🚺 Headspace Yes 🗋 No 🗍 Acutiq Placentesuites state forms 822 muibeA <u>Brighton Lab</u> 240 South Main Street www.coloradolab.com Phone: 303-659-2313 Lakewood CO 80228 Brighton, CO 80601 825 muibeЯ Fax: 303-659-2315 Colorado Anolytical -ABORATORIES, INC. Gross Alpha/Beta X 1, 4 Diexare 7 SUVA, UV 254 (Circle) TOC, DOC (Circle) Alk./Lang. Index PHASE I, II, V Drinking Water Analyses (check analysis) lnorganics Chank Walt X CityCOLO SP65 StateCO Zip 80908 Nitrite C/S Charge PWSID: Co-olallad Date/Time: T125 RGSW 6" PM Nitrate Email: An Mudle O jookydro. con Email: jmorley @ 3870 and . con Compliance Samples: Yes & No Send Forms to State: Yes, No M NEX NU 14 527 State Form / Project Information Lead/Copper **SZAAH 2.222** County: EL PASO SMHTT 2.428 YAR Y System Name: LFH-1 teupiCl 2.648 X **Relinquished By:** Inschool Endothall 547 Glyphosate Delivered Via: 531.1 Carbamates C/S Info; Address: 20 BONNDER CRESCENT ST **Drinking Water Chain of Custody** 225.2 SOCs-Pest City Colo Abs State Co Zip 609 03 Date/Time: 0800 Bill To Information (if different from report to) Yov Store X Contact Name: JTM MORLEY 4 sebioidreH 4.212 Гах: Company Name: SR WATER ul-1/1C 505 Pests/PCBs 2041 EDB/DBCb A/9 mrofiloD IstoT 34 A SOYBlank P/A Samples Only P/A Samples Only Residual Chlorine PO No.: Phone: Date/Time: D: Ker Referved By am 2 No. of Containers Ľ, Address: S45 E. BOKES PEAK AVE Client Sample ID / EP Code Sampler Name: STEPH SCHUENKE CityCoro SP65 State Co Zip \$0903 Company Name: JDS HYDRO Contact Name: MARK NOLLE # 18 FI WE P | 7 Q こす エーキ Phone: 719-227-0072 Fax: # N をす 413 **₩** 4 SULTR. 300 Report To Information 9:50 るよう 3340 8:44 CAL Task No. ۲<u>.</u> 3 えいい 1 170217005 531 Relinquisted By: Time Instructions: ARF 2 216 Date F

1 ~ J 6406 3 01 3

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

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

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



E IOE SEAC Subcontract Analyses Uranium 2860 W. Cedar Dr, Suite 100A Sample Pres. Yes W No D Headspace Yes 🗌 No 🗍 CYRINAL -Hepey × Platentesults stat forms 822 muibsЯ <u>Brighton Lab</u> 240 South Main Street www.coloradolab.com Phone: 303-659-2313 Lakewood CO 80228 Radium 226 Brighton, CO 80601 Fax: 303-659-2315 Colorado Anolytical LABORATOHIES, INC. Gross Alpha/Beta Lakewood Lab X Srexoid P 1 Seals Present Yes 🗌 No 🚺 Temp. D °C/lee V SUVA, UV 254 (Cirele) TOC, DOC (Circle) **Received By:** Alk./Lang. Index PHASE I, II, V Drinking Water Analyses (check analysis) lnorganics קר הואיקרייין Х CityCOLO SPESSIANCO Zip (OTOS) C/S Charge Nitrite PWSID: Co-Ol21734 System Name: LFH-1 T125 R65W 6TH PH Date/Time: otentiN Email: And Molle O joby dry. con Email: jmorley @ 3570 and . com Compliance Samples: Yes K No Send Forms to State: Yes, No M NEY NU 14 527 State Form / Project Information Lead/Copper **252.2 HAA5s** County: EL PASO 824.2 THHMs tsupid 2.942 **Relinquished By:** Ishtobn3 1.842 547 Glyphosate **Delivered Via** 531.1 Carbamates C/S Info; Address: 20 BONLDER CRESCENT ST **Drinking Water Chain of Custody** 225.2 SOCs-Pest CltyColo Abs State Co Zip 609 03 Defectime: 0600 Bill To Information (If different from report to) YON CO. SOME X Contact Name: JYM MORLEY sebioides > 2 Нах: Company Name: 5R WATER nirik 505 Pests/PCBs 2041 EDB\DBCb 34 + J SOY Blank A\9 mohiloO latoT (J/gm) P/A Samples Only Residual Chlorine PO No.: Phone: Date/Time: 2: 15 Referred By (JM R. 9 No. of Containers Address: S45 E. PDKES PEAK AVE Client Sample ID / EP Code Sampler Name: STEPH SCHUENKE CityCoro SP65 State Co Zip 50903 Company Name: JDS H4080 Contact Name: MARK NOLLE LI Jan K # 18 17 С いま ナーキ Phone: 719-227-0072 Fax: SI# まし 413 1 4 SULTR. 300 **Report To laformation** 9:50 8:44 27.5 れど 8340 CAL Task No. 3 2112 125 170217005 Time Relinquisted By: 5:31 Instructions: ARF 5 210 Date F.



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

Stuart Nielson Colorado Analytical Laboratories, Inc.

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

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

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

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

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

MCL: Maximum Contaminant Level

Drinking Water Chain of Custody

FEDEX

12860 W. Cedar Dr, Suite 101 Colorado Analytical Laboratories, Inc. <u>Brighton Lab</u> 240 South Main Street www.coloradolab.com Lakewood CO 80228 Phone: 303-659-2313 Brighton, CO 80601 Fax: 303-659-2315 Lakewood Lab T125 R65w 6th Pm City: Colorado Spgs State: CO Zip: 80908 Compliance Samples: Yes 🕅 No 🗌 State Form / Project Information PWSID: C00121724 System Name: Lfh-1 System Address: Ne 1/4 Nw 1/4 527 County: El Paso Zip: Bill To Information (If different from report to) Company Name: Same As Report To Fax: State: Contact Name: Address: Phone: Email: City: Fax:303-659-2315 State: CO Zip: 80601 Company Name: Colorado Analytical Email: stuartnie[son@coloradolab.com Contact Name: Stuart Nielson Report To Information Phone:303-659-2313 Address: 240 S. Main St. City: Brighton

Send Forms to State: Yes 🔲 No 🕅

PO No.:

Sampler Name: Stephanic Schwenke

Image: Control of the control of th	Image: Control of the set of the se	Pick Sampler Only Pick Sampler Only <t< th=""><th>Sold Sold Sold</th><th>Hether (Ally) Total Collform PL, PMA Samples (Ally) Total Collform PL, PMA Samples (Ally) Total Collform PL, PMA Samples (Ally) Sos Peals/PCBs PMA Samples (Ally) Sos Peals (PloyAlly) PMA Sample</th><th>Construction Construction Construction Construction Construction Co</th><th>Date Sold Feale/PCBs Date Sold Feale/PCBs Sold Feale/PCBs Sold Feale/PCBs Sold Feale/P</th></t<>	Sold	Hether (Ally) Total Collform PL, PMA Samples (Ally) Total Collform PL, PMA Samples (Ally) Total Collform PL, PMA Samples (Ally) Sos Peals/PCBs PMA Samples (Ally) Sos Peals (PloyAlly) PMA Sample	Construction Construction Construction Construction Construction Co	Date Sold Feale/PCBs Date Sold Feale/PCBs Sold Feale/PCBs Sold Feale/PCBs Sold Feale/P
Image: state stat	Market	Image: Solution of the second of the seco	Wilson Wilson	With the second seco	Delivered Vis. C. So Charge <	Date/Time: Detervine: Satis Present Yes No Date/Time: Date/Time: Date/Time: Date/Time: Date/Time:
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				CS Info: CS IN	O O	Image: Construction of the state of the
				CIS Info: CIS INFO:	CIS Info: CIS Info: To: Hary- Delivered Via: Fed Ex \$1> CIS Charge Temp. °C / Ce Sample Pres. Yes	Image: Contract of the series of the seri



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

TASK NO: 170217005

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

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

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

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

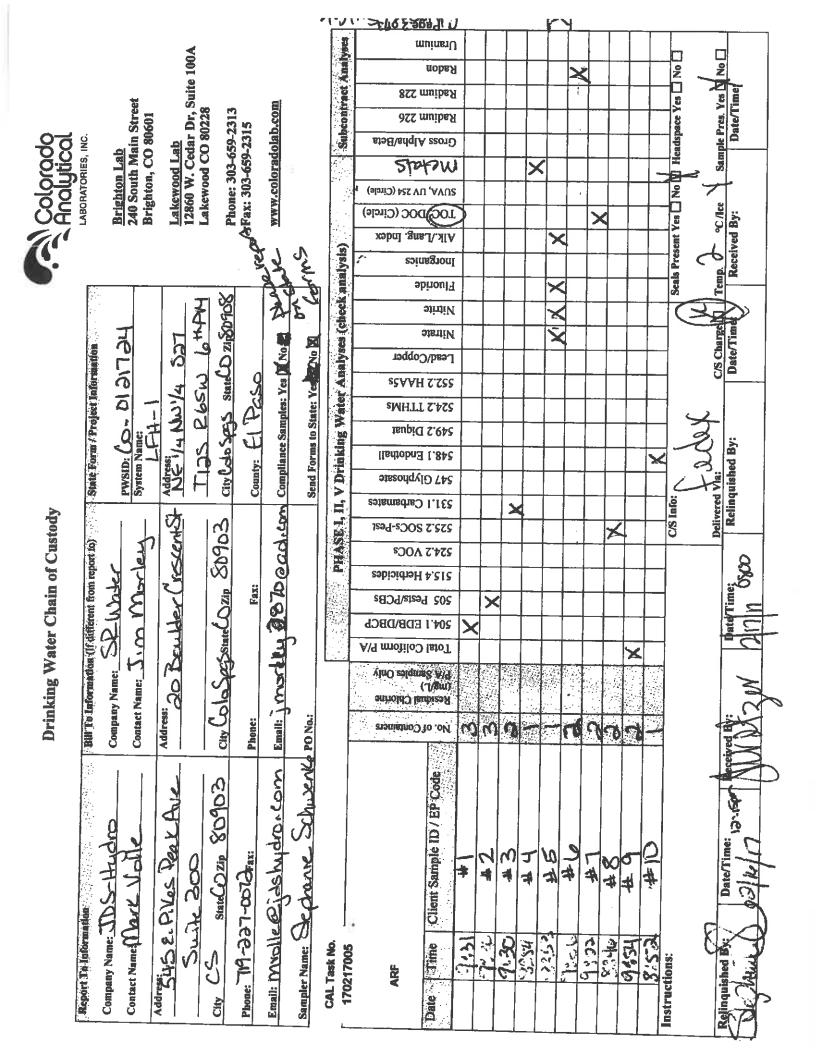
Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	155.5 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Calcium as CaCO3	6.3 mg/L	SM 3111-B	0.1	2/24/17	MBN
Carbonate	4.0 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Langelier Index	-0.43 units	SM 2330-B		2/24/17	SAN
pH	8.44 units	SM 4500-H-B	0.01	2/17/17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

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

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

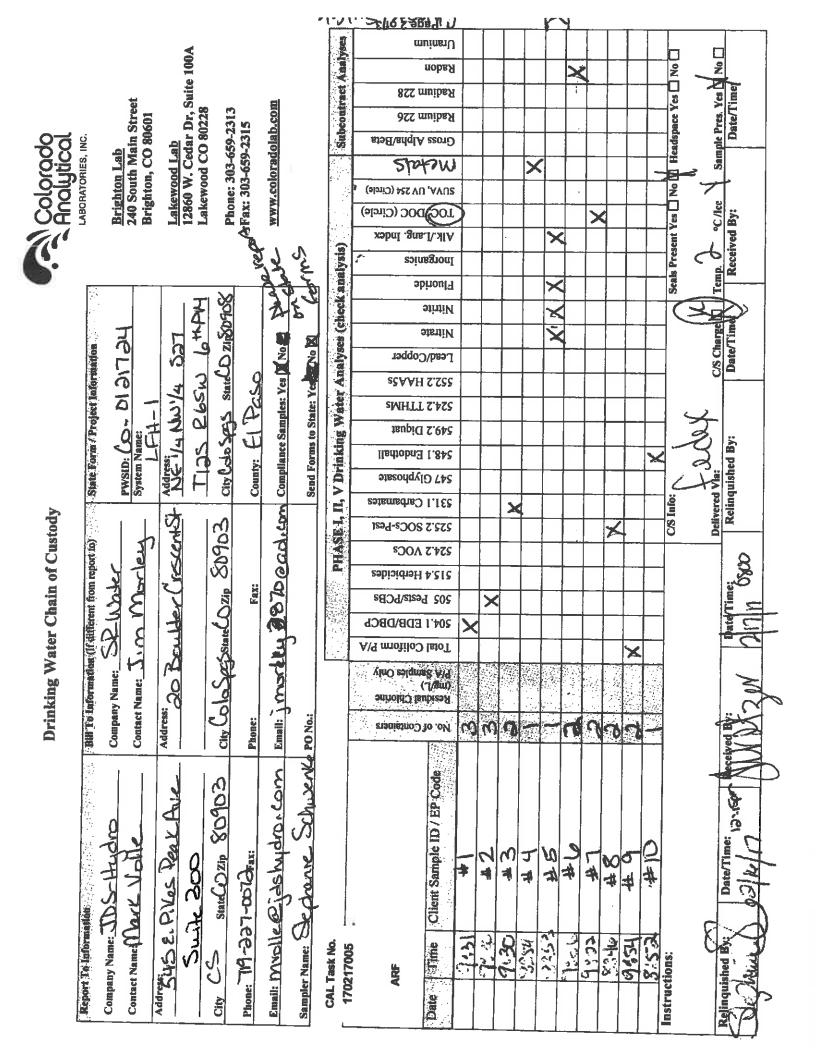


5 10 5 305 CVI Subcontract Analyses muinerU Lakewood Lab 12860 W. Cedar Dr, Suite 100A Sample Pres. Yes WiNo Headspace Yes 🗋 No 🗍 NOW × Pleteriesults state forms 822 muibeA Brighton Lab 240 South Main Street www.coloradolab.com Phone: 303-659-2313 akewood CO 80228 Radium 226 Brighton, CO 80601 Fax: 303-659-2315 Colorado Anolytical LABORATORIES, INC. Gross Alpha/Beta X 1,4 Dioxane Scals Present Yes D No NO Temp. A "C/lee V SUVA, UV 254 (Circle) TOC, DOC (Circle) **Received By:** xəbn] .gns.l\.xlA PHASE I, II, V Drinking Water Analyses (check analysis) lnorganics Plinning Dinning Х CityCOLO SPESSIAACO Zip 80908 літію C/S Charge PWSID: Co-0121724 System Name: T125 RGSW GT PH Date/Time: **SIBTI**IN Email: And Mulle & joby dry. con Email: jmorley & 3670 and . con Compliance Samples: Yes & No Send Forms to State: Ves. No M NEW NU 4 527 State Form / Project Information Lead/Copper **SSAAH 2.222** County: EL PASO 80417 2.428 YR7 1supiCl 2.242 LFH-1 **Relinquished By:** Ilsdtobn3 I.842 547 Glyphosate **Delivered Via**: 531.1 Carbamates CS Info Address: 20 BONDER CRESCENT ST **Drinking Water Chain of Custody** 225.2 SOCs-Pest City Colo State Co Zip 209 03 Date/Time: 0600 Bill To Information (If different from report to) YON A AVIAN AVE X Contact Name: JT-M MORLEY sebioidreH 4.213 X Fax: Company Name: SR WATER alrik 202 Pests/PCBs 204'I EDB\DBCb 34 + J Soy Blank A/9 motiloD latoT vinO ssigms2 A/9 (J/gm) Residual Chlorine PO No.: Phone: No. of Containers Date/Time: A: 15 a Releived By (JM R 2 AD Client Sample ID / EP Code Sampler Name: STEPH SCHWENKE CityCoro 5P65 State Co Zip & 0903 E. BOVES PEAK Company Name: JDS HYDRO Contact Name: MARK NOLLE # 18 917 「キ Q ナーキ Phone: 719 - 227 - 0072 Fax: 5 もう 412 4 4 SULTR. 300 Report To Information Address: SYS 9:50 8244 えいい CAL Task No. 57.72 8340 3 2.5 170217005 Time 9.19 Relinquisted By: 5.3 Instructions: ARF 2 3 Date F

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

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

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



muinsiU Subcontract Analyses Sample Pres. Ves W No [] Lakewood Lab 12860 W. Cedar Dr, Suite 100A Scals Present Yes 🗌 No 🚺 Headspace Yes 🗍 No 📋 CYARNA -topsoj × Please the with state forms 822 muibsA 240 South Main Street www.coloradolab.com Phone: 303-659-2313 Lakewood CO 80228 Radium 226 Brighton, CO 80601 Fax: 303-659-2315 Colorodo Anolytical LABORATORIES, INC. Gross Alpha/Beta × **Brighton Lab** 1,4 bioxare SUVA, UV 254 (Cirde) TOC, DOC (Circle) **Received By:** xəbril .gns.l\.xifA PHASE I, II, V Drinking Water Analyses (check analysis) lnorganics Temp. איזאינאל Х CityCOLO SPLSSIAICO Zip (008 ətintiv C/S Charge Date/Time: PWSID: Co-0121724 System Name: T125 R65W 6m PM Vitrate Email: One Mudle O joshydra, con Email: jmorley @ 36700 and . con Compliance Samples: Yes K No Send Forms to State: Yes, TNo M Addressi AND 14 527 State Form / Project Information Lead/Copper 82AAH 2.222 County: EL PASO SMHTT 2.428 taupid 2.948 X L-H-L **Relinquished By:** Iladtobn3 I.842 S47 Glyphosate Delivered Via 531.1 Carbamates C/S Info CRESCINT ST **Drinking Water Chain of Custody** 525.2 SOCs-Pest Date/Time: 000 City Colo 265 State Co Zip 609 03 Bill To Information (if different from report to) 40N 100 50ME X Contact Name: JT-M MORLEY sebioidreH 4.212 X **Fа**х: Company Name: SR WATER nlrik 505 Pests/PCBs Address: 20 BOW DER 204'I EDB\DBCb SOYBLANE A/9 mrofiloD latoT (J\gm) P/A Samples Only Residual Chlorine PO No.: Phone: 5 R. No. of Containers am Date/Time: A: 15 Property 34 A E. BOKES PEAK AND Client Sample ID / EP Code Sampler Name: STEPH SCHWENKE CityCord SP65 State Co Zip & O903 Company Name: JDS HYDRO Contact Name: MARK NOLLE LI ME # 18 917 マノキ 5 オーキ # I S Phone: 719 - 227 - 0072 Fax: の一本 \$14 # =1 SULTR. 300 Report To Information Address: S45 9:50 8244 ない 3:40 3 21-12 CAL Task No. 3.5 25 Relinquisted By: 170217005 Time 0.31 Instructions: ARF 110 7 Date F.

E IOE SOL

Colonado Deparement of Pasiki itetata ad Expisit itetata Section I (Supplied or Public Wa PWSID#: CO-0121724 System Name: LFH-1 System Name: LFH-1 Contact Person: Mark Volle	Subn						
Public Wa Public Wa		out Unune at attp://www	Submit Online at http://www.wqcdcompliance.com/login	ців		VOC	VOC/SOC
Volle	Section I (Supplied or Completed by Public Water System) Public Water System Information	: Water System) fian	Section JI (Supp	Section JI (Supplied or Completed by Certified Laboratory) Contified I aboratory Information	by Certified L	aboratory)	
Volle			Laboratory ID: CO 00063				
Volle			Laboratory Name: Colorado Analytical Laboratory	Analytical Laborato	, KIK		
		Phone #: 719-227-0072	Contact Person: Customer Service		Phone: 303-659-2313	-2313	
		Do Samples Need to be Composited BY THE LAB?	Comments:				
		Section V (Supplied or Cornul	(Supplied or Completed by Public Water System)				
Coll	Collector: Stephanie Schwenk Facil	wenk Facility ID (On Schedule):	Sample	Sample Pt ID (On Schedule):			
	Section VJ Sy	nthetic Organic Chemicals (Sup	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	I Laboratory)			
Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (up/L)	Lab MRL (ug/L)	Result (ue/L.)
2/24/17	170217005-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
3/1/17	170217005-01G	2,4,-D	94-75-7	EPA 515.4	70	0.1	BDL
3/1/17	170217005-01G	2,4.5-TP	93-72-1	EPA 515.4	50	0.2	BDL
2/23/17	170217005-01H	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL.
11/7/2	110-200/120/1	Aldicarb	116-06-3	EPA 531.1	N/A	9.6	BDL
3/2/17	170217005-011	Aldicarh suffixide	1040-00-4	EPA 531.1	A/N		BDL
2/23/17	1170217005-0111	Attazine	1912-24-9	EPA 525.2	3	0.1	BDL
2/23/17	170217005-01H	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDI.
3/2/17	170217005-011	Carbofuran	1563-66-2	EPA 531.1	40	0.9	BDL
2/24/17	170217005-01F	Chlordane	57-74-9	EPA 505	2	0.2	BDI,
3/1/7	170217005-01G	Dalapon	75-99-0	EPA 515.4	200	1	BDL
2/23/17	170217005-0111	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	0.6	BDL
2/23/17	170217005-01H	Di(2-cthylhexyl)phthalate	117-81-7	EPA 525.2	6	0.6	BDI.
3/1/17	170217005-01G	Dinosch	85-85-7	EPA 515.4	7	0.2	BDL
2/23/17	170217005-01K	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
2/23/17	170217005-01J	Endothall	145-73-3	FPA 548.1	100	6	BDL
212411	110-500/170/1	Endrin	72-20-8	EPA 505	2	0.01	BDL
2/24/17	170217005-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDI.
2/23/17	170217005-01H	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
2/24/17	170217005-01F	Heptachlor epoxide	1024-57-3	EPA 505	0.2	0.02	BDL

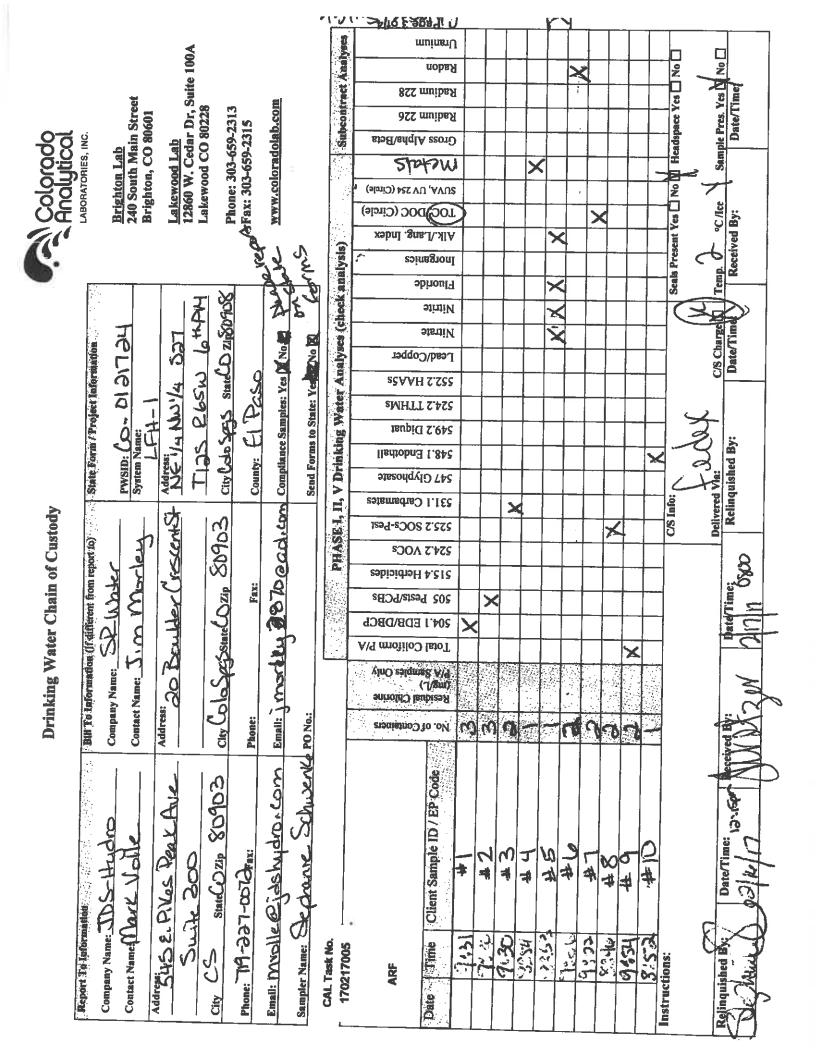
Page 1 of 4

			Result	('T/8n)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDI.	BDI,
				3										
			Lab MRL	('T/Bn)	0.1	0.1	0.02	0.1		0.04	0.1	0.1	0.07	
			MCL	(rt/@n)	1	50	0.2	40	200	-	500	0.5	4	9
	Sample Pt ID (On Schedule):	aboratory)	Analytical	Method	EPA 505	EPA 505	EPA 505	EPA 505	I:PA 531.1	EPA 515.4	EPA 515.4	EPA 505	EPA 525.2	EPA 505
olic Water System)	Sample Pt	impleted by Certified Li	CAS No.		118-74-1	77-47-4	58-89-9	72-43-5	23135-22-0	87-86-5	1918-02-1	1336-36-3	122-34-9	8001-35-2
Section V (Supplied or Completed by Public Water System)	chwenk Facility ID (On Schedule):	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	Analyte Name		Hexachlorobenzene	Hexachlwrocyclopentadienc	Lindane	Methoxychlor	Oxamyl	Pentachlorophenol	Picloram	Polychlorinated hiphenyl's	Simazine	Toxaphene
	Collector: Stephanie Schwenk Facil	Section VI S	Lab Sample ID		170217005-01F	170217005-01F	170217005-01F	170217005-01F	170217005-011	170217005-01G	170217005-01G	170217005-01F	170217005-01H	170217005-01F
21724		and the second se	Lab Analysis	Date	2/24/17	2/24/17	2/24/17	2/24/17	3/2/17	3/1/17	3/1/17	2/24/17	2/23/17	2/24/17
PWSID#: CO-0121724	Sample Date: 2/16/17		Lab Receipt	Date	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/1/17	2/17/17	2/17/17	2/17/17	2/17/17

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

170217005-01

212. 3/8/17



+ io y a 50 2 - 1 Subcontract Analyses muinerU Lakewood Lab 12860 W. Cedar Dr, Suite 100A Temp. O. o.C./ice Sample Pres. Yes WNo Date/Time. Scals Present Yes 🗋 No 🐧 Headspace Yes 🗍 No 🗍 yandd × Place termines shall forms 822 muibeA Brighton Lab 240 South Main Street <u>www.coloradolab.com</u> Phone: 303-659-2313 Lakewood CO 80228 Brighton, CO 80601 Radium 226 Fax: 303-659-2315 Colorado Analytical LABORATORIES, INC. Gross Alpha/Beta Snow H 1 × SUVA, UV 254 (Circle) TOC, DOC (Circle) Alk./Lang. Index PHASE I, II, V Drinking Water Analyses (check analysis) 201 Inorganics MANNA MANNA X CityCOLO SP65 StateCO Zip (Oros Nitrite C/S Charge PWSID: Co-0121734 System Name: T125 RGSW GWPM Date/Time: **Sitrate** Email: One Mulle O jobydro. con Email: jmorley @ 36700 and .com Compliance Samples: Yes K No Send Forms to State: Yes, TNo M 527 State Form / Project faformation Lead/Copper 552.2 HAA55 Addressi NEYA NW YA County: EL PASO SMHTT S.428 YR7 1supiCl 2.942 X L-H-1 **Relinquished By:** Ilsdtobn3 I.848 547 Glyphosate **Delivered Via** 531.1 Carbamates C/S Info Address: 20 BONN DER CRESCENT ST **Drinking Water Chain of Custody** 225.2 SOCs-Pest Clty Colo Abs State Co Zip 609 03 DetterTime: 000 Bill To Information (if different from report to) S. CALLER . 4 on X Contact Name: JYM MORLEY sl5.4 Herbicides Z Fax: Company Name: SR WATER mrik 505 Pests/PCBs 2041 EDB/DBCb 34 H SOHBlank A\9 mrofiloO IstoT P/A Samples Only (mg/L) Residual Chlorine 2 PO No.: Phone: No. of Containers Date/Time: 2: 15 Preserved By SM 2 3 AN Client Sample ID / EP Code Sampler Name: STEPH SCHWENKE Address: Syls E. BOKES PEGK City Caro SP65 State Co Zip \$0903 Company Name: JDS HYDRO Contact Name: MARK NOLLE # 18 Film F 717 С エーキ Phone: 719 - 227 - 0072 Fax: * I S A10 \$1A **||†** 4 SUETT 300 Report To Information CAL Task No. 170217005 9:50 44:3 542 8340 2 3 えてい 25 5:31 Relinquisted By: Time Instructions: ARF 2 216 Date r,



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

Analytical Results

TASK NO: 170217005

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

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

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

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

Lab Number: 170217005-01

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

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

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



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

Analytical Results

TASK NO: 170217005

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

Client P	o.: 170217005 O: ct: LFH-1 CO-012	21724		Received: 2/17/ Reported: 3/6/1 Matrix: Wate	7	
-	Sample ID LFH-1 Date/Time: 2/16/17 ab Number: 1702170	005-01				
Test		Result	Method	ML.	Date Analyzed	Analyzed By
<u>Total</u> Zinc		0.005 mg/L	EPA 200.8	0.001 mg	⊈L 2/22/17	TCD

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

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

170217005 2/2

Subcontract Analyses muinerU 12860 W. Cedar Dr, Suite 100A Sample Pres. Yes No Headspace Yes 🗌 No 🗍 Radon Date/Time 822 muibeA Brighton Lab 240 South Main Street www.coloradolab.com Phone: 303-659-2313 Lakewood CO 80228 Brighton, CO 80601 822 muibeA yet AFax: 303-659-2315 Colorado LABORATORIES, INC. Gross Alpha/Beta Lakewood Lab spapw X Seals Present Yes 🗋 No 💟 (slor) 422 VU ,AVUS Temp. C ./lee (Sincle) COC (Circle) × **Received By:** Alk./Lang. Index X ومعكران PHASE I. II, V Drinking Water Analyses (check analysis) $\boldsymbol{<}$ zoinagronl まえ Fluoride × City City Card State Control City Control Ł HAH MS93 SCIT vinite C/S Charge Date/Time Ň Bill To Information (If different from report to) PWSID: Co. DI DIT DI System Name: 5ar Nitrate Email: Myolle @jdshydro.com Email: jmstelly 2870 000, com Compliance Samples: Yes No Send Forms to State: Yes Send Forms Tead/Copper County: El Paso NG 1/4 NW1/4 82.2 HAA5s 224.2 THMs Delivered Via: Rait 549.2 Diquat **Relinquished By:** Isdtobn3 [.848 547 Glyphosate 531.1 Carbamates **C/S Info:** 20 Bender Cresconst X **Drinking Water Chain of Custody** Ciry Colo Sockstate Cozin 80903 525.2 SOCs-Pest \checkmark Contact Name: Jim Murley AnterTime: 0500 524'5 AOC^a Company Name: SP Whyler sabioidnaH 4.212 fax: 205 Pests/PCBs X 204'I EDB\DBCb mofilo2 latoT ¥/d X Residual Chtorine (ng/L) P/A Samples Only i. ļ N^aC Address: Sampler Name: We have Schuzered PO No. mm **Phone:** 373 No. of Containers 1 37 Client Sample ID / EP Code Addressity Ser Rives Reak Aue StateCOZip & OOD Date/Time: 12-154 Company Name: JDS-Hudro Contact Name Mark Volle 4 3 する 57 する Phone: TM-237-007 Arax: てキ \$0 ₩ Suit 200 13/150 \$ Report To Information نې د : 14:1 9:30 9322 200 S.S.3 15.5 834e 9654 CAL Task No. Relinquished By: 3.54 S 170217005 Date Instructions: ARF City

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+ 10 4 350 CVI Subcontract Analyses muinerU Lakewood Lab 12860 W. Cedar Dr, Suite 100A Sample Pres. Yes W No Scals Present Yes 🗌 No 🚺 Headspace Yes 🗍 No 🗋 NUMP X Please tesuits state forms 822 muibeЯ <u>Brighton Lab</u> 240 South Main Street www.coloradolab.com Phone: 303-659-2313 Lakewood CO 80228 Radium 226 Brighton, CO 80601 Fax: 303-659-2315 Colorado Analytical -ABORATORIES, INC. Gross Alpha/Beta 1,4 bioxane × SUVA, UV 254 (Circle) A "C./lee TOC, DOC (Circle) **Received By:** Alk./Lang. Index PHASE I, II, V Drinking Water Analyses (check analysis) lnorganics Temp. CLUTTON OF X CityColo Spice State 2 210 80708 C/S Charge virrite PWSID: CO- OI 21734 System Name: LFH-1 Date/Time: T125 RGSW GM PH **Struiv** Email: Bor Mualle @ jobshydra. con Email: jmorley @ 3870 and . con configure Samples: Yes X No Send Forms to State: Yes, No Addressi NJ 14 527 State Form / Project Information Lead/Copper 82AAH 2.222 County: EL PASO 8MHTT 2.428 えぞう 549.2 Diquat X Date/Time: OCO Relinquished By: Iladiobn3 1.842 547 Glyphosate **Delivered Via** 531.1 Carbamates C/S Info; Address: 20 BOULDER CRESCENT ST **Drinking Water Chain of Custody** 525.2 SOCs-Pest City Colo 245 State Co Zip 209 03 Bill To Information (if different from report to) YON Low Martin Х Contact Name: JT-M MORLEY 4 sebieides + $\boldsymbol{\lambda}$ Fax: Company Name: 5R WATER nlrik 505 Pests/PCBs 204'I EDB\DBCb 34 H SOHBLANE A/9 mrofiloO IstoT (J'gm) P/A Samples Only Residual Chlorine PO No.: Phone: 9 Ŕ No. of Containers SM Date/Time: D: Kar Referved E. BOKES PEAK AND Client Sample ID / EP Code Sampler Name: STEPH SCHWENKE CityCon SP65 State Co Zip \$0903 Company Name: JDS HYDRO Contact Name: MARK NOLLE LI MA # 18 917 マノキ いま エーキ 514 Phone: 719 - 227 - 0072 Fax: をす \$14 **₩** SUETE 300 Report To Information Address: SyS 9:50 わい 8:40 8:44 CAL Task No. 3 2142 1.1 2.5 170217005 Relinquisted By: Time Instructions: ARF 2 216 Date đ



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

ANALYTICAL SUMMARY REPORT

March 02, 2017

Colorado Analytical Laboratories Inc PO Drawer 507 Brighton, CO 80601

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

Project Name: 170217005 LFH-1 CO-0121724

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

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

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

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

Report Approved By:

20

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

ENERGY	Trust our People. Trust our Data.	Billings, MT 800.735.4489 • Casper, WY 888.235.0515
1 0413 11-6° 112 \$	www.energylab.com	College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711
CLIENT:	Colorado Analytical Laboratories Inc	
Project:	170217005 LFH-1 CO-0121724	Report Date: 03/02/17

CASE NARRATIVE

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

Work Order:

C17020566



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

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



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

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

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

Analyses	Result	Units	Qualifiers	RL.	MCL/ QCL Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS		um/i		2.0	5604	02/24/17 19:19 / eli-b
Methyl tert-butyl ether (MTBE) Methyl ethyl ketone		ug/L ug/L		2.0	E624 E624	
		-		20		02/24/17 19:19 / eli-b
Methyl isobutyl ketone		ug/L		10	E624	02/24/17 19:19 / eli-b
Methylene chloride		ug/L		1.0	E624	02/24/17 19:19 / eli-b
Naphthalene		ug/L		0.50	E624	02/24/17 19:19 / eli-b
Styrene	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Tetrachloroethene		ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	E624	02/24/17 19:19 / ell-b
Toluene		•		1.0	E624	02/24/17 19:19 / ell-b
Trichioroethene		ug/L		1.0	E624	02/24/17 19:19 / slī-b
1,1,1-Trichloroethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,1,2-Trichloroethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Trichlorofluoromethane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
1,2,3-Trichloropropane	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Vinyl Acetate	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Vinyl chloride	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
m+p-Xylenes	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
o-Xylene	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Xvienes, Total	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Surr: 1,2-Dichloroethane-d4		%REC		71-139	E624	02/24/17 19:19 / eli-b
Surr: p-Bromofluorobenzene	92.0	%REC		80-127	E624	02/24/17 19:19 / eli-b
Surr: Toluene-d8		%REC		80-123	E624	02/24/17 19:19 / eli-b
SEMI-VOLATILE ORGANIC COMPOU	JNDS					
Acenaphthene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Acenaphthylene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Anthracene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Azobenzene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Benzidine		ug/L		10	E625	02/28/17 13:13 / eli-b
Benzo(a)anthracene		ug/L		10	E625	02/27/17 19:27 / eli-b
Berizo(a)pyrene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(b)fluoranthene		ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(g,h,i)perylene		ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(k)fluoranthene		ug/L		10	E625	02/27/17 19:27 / eli-b
4-Bromophenyl phenyl ether		ug/L		10	E625	02/27/17 19:27 / eli-b
Butylbenzyiphthalate		ug/L		10	E625	02/27/17 19:27 / eli-b
4-Chloro-3-methylphenoi		ug/L		10	E625	02/27/17 19:27 / eli-b
bis(-2-chloroethoxy)Methane	ND	-		10	E625	02/27/17 19:27 / eli-b
bis(-2-chloroethyl)Ether		-		10	E625	
bis(-2-chloroisopropyi)Ether	ND	-				02/27/17 19:27 / eli-b
	ND	+		10	E625	02/27/17 19:27 / eli-b
2-Chloronaphthaiene	ND			10	E625	02/27/17 19:27 / eli-b
2-Chlorophenol	ND	ug/L		10	E625	02/27/17 19:27 / eli-b

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



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

 Client:
 Colorado Analytical Laboratories Inc

 Project:
 170217005 LFH-1 CO-0121724

 Lab ID:
 C17020566-001

 Client Sample ID:
 170217005-01 LFH-1

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

			_	-	MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL M	ethod	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS							
4-Chlorophenyl phenyl ether		ug/L		10	F	625	02/27/17 19:27 / eli-b
Chrysene		ug/L		10	-	825	02/27/17 19:27 / eli-b
Diethyl phthalate	ND	ug/L		10	_	625	02/27/17 19:27 / eli-b
Di-n-butyl phthalate	ND	ug/L		10		625	02/27/17 19:27 / eli-b
1.2-Dichlorobenzene	ND	ug/L		10		625	02/27/17 19:27 / eli-b
1,3-Dichlorobenzene	ND	-		10		825	02/27/17 19:27 / ell-b
1.4-Dichlorobenzene	ND	-		10		625	02/27/17 19:27 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10		625 625	02/27/17 19:27 / eli-b
	ND	-		10		625 625	02/27/17 19:27 / ell-b
2,4-Dichlorophenol		ug/L			_		
Dimethyl phthalate	ND	ug/L		10		625	02/27/17 19:27 / eli-b
Di-n-octyl phthalate	ND	ug/L		10		625 805	02/27/17 19:27 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10		625	02/27/17 19:27 / eli-b
2,4-Dimethylphenol	ND	ug/L		10		625	02/27/17 19:27 / eli-b
4,6-Dinitro-2-methylphenol	ND	•		50		625	02/27/17 19:27 / eli-b
2,4-Dinitrophenol	ND	ug/L		50		325	02/27/17 19:27 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10		525	02/27/17 19:27 / ell-b
2,6-Dinitrotoluene	ND	ug/L		10	_	525	02/27/17 19:27 / eli-b
ois(2-ethylhexy/)Phthalate	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
Fluoranthene	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
Fluorene	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
Hexachlorobenzene	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
-lexachlorobutadiene	ND	ug/L		10	E	62 5	02/27/17 19:27 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10	Ef	325	02/27/17 19:27 / eli-b
Hexachloroethane	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
ndeno(1,2,3-cd)pyrene	ND	-		10	E	525	02/27/17 19:27 / eli-b
sophorone	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10	E	3 25	02/27/17 19:27 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10		525	02/27/17 19:27 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10		325	02/27/17 19:27 / eli-b
2-Nitrophenol	ND	ug/L		10		325	02/27/17 19:27 / elí-b
4-Nitrophenol	ND	ug/L		50		525	02/27/17 19:27 / eli-b
Naphthalene	ND	ug/L		10		325	02/27/17 19:27 / eli-b
Nitrobenzene	ND	ug/L		10		325	02/27/17 19:27 / eli-b
Pentachiorophenol	ND	ug/L		50		525	02/27/17 19:27 / eli-b
Phenanthrene		_		10		525 525	02/27/17 19:27 / eli-b
-nenanmiene Phenol		ug/L		10		525 525	02/27/17 19:27 / eli-b
		ug/L		10		525	02/27/17 19:27 / eli-b
		ug/L					
		ug/L		10		325 205	02/27/17 19:27 / eli-b
2,4,6-Trichlorophenol		ug/L		10		325	02/27/17 19:27 / eli-b
Surr: 2-Fluorobiphenyi		%REC		28-107		525 Soc	02/27/17 19:27 / eli-b
Surr: 2-Fluorophenol		%REC		20-56		625	02/27/17 19:27 / eli-b
Surr: Nitrobenzene-d5		%REC		32-94		325	02/27/17 19:27 / eli-b
Surr: Phenol-d5	33.0	%REC		19-45	E	625	02/27/17 19:27 / eli-b

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



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

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

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

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

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



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E624							An	alytical Run:	R275391
Lab ID:	ccv022417	Continuing Ca	libration \	erification Standa	rd				02/24	/17 09:51
Acetone		40.8	ug/L	20	82	70	130			
Acetonitrile	•	60.0	ug/L	20	120	70	130			
Acrolein		59.2	ug/L	20	118	70	130			
Acrylonitrile	e	46.4	ug/L	20	93	70	130			
Benzene		4.80	ug/L	0.50	96	70	130			
Bromobenz		4,56	ug/L	0.50	91	70	130			
Bromochlo		4,64	ug/L	0.50	93	70	130			
Bromodich	loromethane	4.08	ug/L	0.50	82	70	130			
Bromoform	I	4.08	ug/L	0.50	82	70	130			
Bromometh		5.56	ug/L	0.50	111	70	130			
Carbon dis		4.80	ug/L	0.50	96	70	130			
Carbon tetr		3.70	ug/L	0.50	74	70	130			
Chiorobenz		4.80	ug/L	0.50	96	70	130			
	momethane	4.32	ug/L	0.50	86	70	130			
Chloroetha		4.88	ug/L	0.50	98	70	130			
	nyl vinyi ether	3.07	ug/L	1.0	61	70	130			S
Chloroform		4.36	ug/L	0.50	87	70	130			
Chlorometh		4.60	ug/L	0.50	92	70	130			
2-Chlorotol		4.84	ug/L	0.50	97	70	130			
4-Chiorotol		4.80	ug/L	0.50	96	70	130			
1,2-Dibrom		4.40	ug/L	0.50	88	70	130			
Dibromome		4.60	ug/L	0.50	92	70	130			
1,2-Dichlor		4.72	ug/L	0.50	94	70	130			
1,3-Dichlor		4.84	ug/L	0.50	97	70	130			
1,4-Dichlord		4.76	ug/L	0.50	95	70	130			
	uoromethane	3.87	ug/L	0.50	77	70	130			
1,1-Dichlord		4.40	ug/L	0.50	88	70	130			
1,2-Dichlord		3.78	ug/L	0.50	76	70	130			
1,1-Dichlord cis-1,2-Dich		4.20	ug/L	0.50	84	70	130			
	ichioroethene	4.72 4.64	ug/L	0.50 0. 5 0	94 93	70	130			
1,2-Dichlord		5.20	ug/L	0.50	104	70	130			
1,3-Dichlord		4.64	ug/L ug/L	0.50	93	70 70	130 130			
2,2-Dichlord		3.92	ug/L	0.50	78	70	130			
1,1-Dichlore		4.40	ug/L	0.50	88	70	130			
	nloropropene	4.56	ug/L	0.50	91	70	130			
	ichloropropene	4.04	ug/L	0.50	81	70	130			
Ethylbenzer		4.84	ug/L	0.50	97	70	130			
-	butyl ether (MTBE)	3.68	ug/L	0.50	74	70	130			
Methyl ethy		42.8	ug/L	20	86	70	130			
Methyl isob		45.6	ug/L	20	91	70	130			
Methylene o		5.44	ug/L	0.50	109	70	130			
Naphthalen		4.88	ug/L	0.50	98	70	130			
					_					

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD RPDLimit Qual
Method: E624							Analytical Run: R275391
Lab ID: ccv022417	Continuing Ca	libration Ver	ification Standa	ard			02/24/17 09:51
Styrene	4.76	ug/L	0.50	95	70	130	
Tetrachloroethene	4.60	ug/L	0.50	92	70	130	
1, 1, 1, 2-Tetrachloroethane	4.24	ug/L	0.50	85	70	130	
1, 1, 2, 2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130	
Toluene	4.96	ug/L	0.50	99	70	130	
Trichloroethene	4.80	ug/L	0.50	96	70	130	
1,1,1-Trichloroethane	3.75	ug/L	0.50	75	70	130	
1,1,2-Trichloroethane	4.76	ug/L	0.50	95	70	130	
Trichlorofluoromethane	3.34	ug/L	0.50	67	70	130	S
1,2,3-Trichloropropane	4.20	ug/L	0.50	84	70	130	
Vinyl Acetate	4.56	ug/L	1.0	91	70	130	
Vinyl chloride	4.84	ug/L	0.50	97	70	130	
m+p-Xylenes	9.76	ug/L	0.50	98	70	130	
o-Xylene	4.76	ug/L	0.50	95	70	130	
Xylenes, Total	14.5	ug/L	0.50	97	70	130	
Surr: 1,2-Dichloroethane-d4			0.50	74	71	139	
Surr: p-Bromofluorobenzene			0.50	88	80	127	
Surr: Toluene-d8			0.50	92	80	123	
Method: E624							Batch: R275391
Lab ID: cs022417	Laboratory Co	-				A.I_170224A	02/24/17 10:31
Acetone	41.6	ug/L	20	83	55	144	
Acetonitrile	60.4	ug/L	20	121	54	142	
Acrolein	49.6	ug/L	20	99	16	233	
Acrylonitrile	46.0	ug/L	20	92	76	127	
Benzene	4.96	ug/L	0.50	99	73	122	
Bromobenzene	4.76	ug/L	0.50	95	74	129	
Bromochloromethane	4.64	ug/L	0.50	93	66	120	
Bromodichioromethane	4.44	ug/L	0.50	89	74	128	
Bromoform	4.36	ug/L	0.50	87	66	128	
Bromomethane	5.76	ug/L	0.50	115	51	123	
Carbon disulfide	4.92	ug/L	0.50	98	46	145	
Carbon tetrachloride	3.80	ug/L	0.50	76	75	125	
Chiorobenzene	4.92	u g /L	0.50	98	80	123	
Chlorodibromomethane	4.64	ug/L	0.50	93	74	125	
Chloroethane	5.04	ug/L	0.50	101	59	142	
2-Chloroethyl vinyl ether Chloroform	2.74	ug/L	1.0	55 88	36	144	
Chloroform	4.40	ug/L	0.50	88	68 53	124	
Chloromethane 2-Chlorotoluene	4.64 5.04	ug/L	0.50 0.50	93 101	53 75	14 6 131	
4-Chiorotoluene	4.68	ug/L	0.50	94	75 74	129	
1.2-Dibromoethane	4.66	ug/L	0.50	94 88	7 4 76	129	
,		ug/L					
Dibromomethane	4.76	ug/L	0.50	95	77	125	

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories inc

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories inc

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc.

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R27539
Lab ID: b17021110-001bms	Sample Matrix	< Spike			Run: 5971	A.I_170224A		02/24	/17 18:21
Vinyl chloride	5.12	ug/L	0.50	102	58	140			
m+p-Xylenes	9.32	ug/L	0.50	93	67	139			
o-Xylene	4.44	ug/L	0.50	89	74	135			
Xylenes, Total	13.8	ug/L	0.50	92	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	80	71	139			
Surr: p-Bromofluorobenzene			0.50	94	80	127			
Surr: Toluene-d8			0.50	101	80	123			
Lab ID: b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 5971,	A.I_170224A		02/24	/17 18:50
Acetone	44.0	ug/L	20	88	55	144	8.5	20	
Acetonitrile	65.6	ug/L	20	131	54	142	0.6	20	
Benzene	5.04	ug/L	0.50	101	73	122	9.1	20	
Bromobenzene	4.96	ug/L	0.50	99	74	129	7.5	20	
Bromochloromethane	4.80	ug/L	0.50	96	66	120	5.1	20	
Bromodichloromethane	4.60	ug/L	0.50	92	74	128	5.4	20	
Bromoform	4.80	ug/L	0.50	96	66	128	8.7	20	
Bromomethane	6.00	ug/L	0.50	120	51	123	2.0	20	
Carbon disulfide	5.20	ug/L	0.50	104	46	145	1.6	20	
Carbon tetrachloride	3.97	ug/L	0.50	79	75	125	10	20	
Chlorobenzene	4.88	ug/L	0.50	98	80	123	7.7	20	
Chlorodibromomethane	4.76	ug/L	0.50	95	74	125	5.2	20	
Chloroethane	5.32	ug/L	0.50	106	59	142	1.5	20	
Chloroform	4.96	ug/L	0.50	87	68	124	5.8	20	
Chloromethane	4.88	ug/L	0.50	98	53	146	5.0	20	
2-Chlorotoluene	5.20	ug/L	0.50	104	75	131	6.3	20	
4-Chlorotoluene	5.04	ug/L	0,50	101	74	129	7.4	20	
1.2-Dibromoethane	4.52	ug/L	0.50	90	76	124	8.3	20	
Dibromomethane	4.88	ug/L	0.50	98	77	125	5.0	20	
1,2-Dichlorobenzene	5.04	ug/L	0.50	101	74	124	8.3	20	
1,3-Dichlorobenzene	5.20	ug/L	0.50	104	77	122	6.3	20	
1.4-Dichlorobenzene	5.12	ug/L	0.50	98	76	126	7.3	20	
Dichlorodifluoromethane	4.36	ug/L	0.50	87	56	146	0.9	20	
1,1-Dichloroethane	4.68	ug/L	0.50	94	74	133	9.9	20	
1,2-Dichloroethane	3.76	ug/L	0.50	75	75	129	7.8	20	
1,1-Dichloroethene	4.44	ug/L	0.50	89	74	132	7.5	20	
cis-1,2-Dichloroethene	4.88	ug/L	0.50	98	81	122	8.5	20	
trans-1,2-Dichloroethene	5.12	ug/L	0.50	102	79	143	9,8	20	
1,2-Dichloropropane	5.24	ug/L	0.50	105	75	126	6.3	20	
1,3-Dichloropropane	4.64	ug/L	0.50	93	71	136	9.0	20	
2,2-Dichloropropane	3.96	ug/L	0.50	79	68	142	9.6	20	
1,1-Dichloropropene	4.44	ug/L	0.50	89	70	131	9.4	20	
cis-1,3-Dichloropropene	4.40	ug/L	0.50	88	74	135	7.5	20	
			0.50	85	76	149	6.6	20	
trans-1,3-Dichloropropene	4.24	ug/L	0.00	00	70	143	0.0	20	

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc.

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625								Batc	h: 107004
Lab ID: LCS-107004	Laboratory Cor	trol Sample			Run: SV59	73N2.I_170227B		02/27	/17 18:55
1,3-Dichlorobenzene	60.2	ug/L	10	60	41	79			
1,4-Dichlorobenzene	61.4	ug/L	10	61	42	79			
3,3'-Dichlorobenzídine	68.6	ug/L	10	69	51	93			
2,4-Dichlorophenol	64.7	ug/L	10	65	49	90			
Dimethyl phthalate	76.4	u g /L	10	76	58	104			
Di-n-octyl phthalate	88.3	ug/L	10	88	56	110			
Dibenzo(a,h)anthracene	80.4	ug/L	10	80	61	111			
2,4-Dimethylphenoi	61.8	ug/L	10	62	45	89			
4,6-Dinitro-2-methylphenol	48.2	ug/L	50	48	37	105			
2,4-Dinitrophenol	39.7	ug/L	50	40	27	81			
2,4-Dinitrotoluene	87.7	ug/L	10	88	63	110			
2,6-Dinitrotoluene	75.5	ug/L	10	76	60	107			
bis(2-ethylhexyl)Phthalate	88.6	ug/L	10	89	56	108			
Fluoranthene	83.8	ug/L	10	84	63	110			
Fiuorene	77.4	ug/L	10	77	60	99			
Hexachlorobenzene	78.2	ug/L	10	78	57	103			
Hexachlorobutadiene	67.5	ug/L	10	67	39	83			
Hexachlorocyclopentadiene	68.4	ug/L	10	68	39	91			
Hexachloroethane	59.6	ug/L	10	60	37	75			
Indeno(1,2,3-cd)pyrene	82.0	ug/L	10	82	59	109			
Isophorone	67.1	ug/L	10	67	42	102			
n-Nitrosodimethylamine	36.9	ug/L	10	37	20	45			
n-Nitroso-di-n-propylamine	71.5	ug/L	10	71	49	98			
n-Nitrosodiphenylamine	90.0	ug/L	10	90	61	108			
2-Nitrophenol	68.0	ug/L	10	68	51	96			
4-Nitrophenol	18.3	ug/L	50	18	15	36			
Naphthalene	71.6	ug/L	10	72	48	96			
Nitrobenzene	65.0	ug/L	10	65	51	91			
Pentachiorophenol	70.6	ug/L	50	71	53	109			
Phenanthrene	80.5	ug/L	10	81	58	104			
Phenol	35.4	ug/L	10	35	27	45			
Pyrene	89,3	ug/L	10	89	64	108			
1,2,4-Trichlorobenzene	67.3	ug/L	10	67	49	85			
2,4,6-Trichlorophenol	64.9	ug/L	10	65	47	99			
Surr: 2-Fluorobiphenyl			10	63	28	107			
Surr: 2-Fluorophenol			10	35	20	56			
Surr: Nitrobenzene-d5			10	68	32	94			
Surr: Phenol-d5			10	42	19	45			
Surr: Terphenyl-d14			10	87	32	122			
Surr: 2,4,6-Tribromophenol			10	70	21	130			
Lab ID: B17021688-001CMS	ID: B17021688-001CMS Sample Matrix Spike				Run: SV597	3N2.I_170227B		02/27/	17 20:29
Acenaphthene	86.4	ug/L	10	86	58	99			

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

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



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc.

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

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



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

C17020566

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

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

Standard Reporting Procedures:

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

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

Contact and Corrective Action Comments:

None

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

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

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

v Public Water System) Section JI (Sumplied or Completed or Completed or Completed or Completed or Completed or Completed fragmenton) Information Laboratory ID: CO 0015 Phone #: 719-227-0072 Laboratory Namc: Colorado Analytical Laboratory Namc: Colorado Analytical Laboratory Namc: Contract Person: Customer Service Do Samples Need to be Contract Person: Customer Service Do Samples Need to be Comments: Section III (Supplied or Completed by Public Water System) Section III (Supplied or Completed by Certified Laboratory) Section IV Inorganic Chemicals (Completed by Certified Laboratory) Analytical Laboratory) Analyte Name TAB	Colorado Deparaceut		Inor 4300 Fax	Inorganic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO 80246-1530 Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us	emicals Certified Laboratory Report Form WQCD - Drinking Water CAS Creek Drive South, Denver, CO 80246-1530 58-1398; cdphe.drinkingwater@state.co.us	orm 1530 1.us		Revise	Revised 6/13/2014
Public Water System Information 04 Laboratory II 105 Laboratory N 105 Renth MD 105 Phone #: 719-227-0072 105 Contact Person 106 Samples Need to be 107 Contact Person 108 Composited BY THF LAB? 108<	Section	I (Supplied or	r Completed by Public	Water System)	Section JI (Sur	plied or Completed b	v Certified 1	shoratory	
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		1/24/17	170324007-01	Flunride	7681-49-4	EPA 300.0	4	0.09	1.22

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

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

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Analytical	LABORATORIES, INC.	Brighton Fah	240 South Main Street	Brighton, CO 80601	Lakewood Lab		Lakewood CO 80228	Frome: 303-659-2313 Fax: 303-659-2315	www.coloradolab.com			analysis) Subcontract Analyses	()	ircle) ircle)	528 526 529 724 724 724 724 72 72 72 72 72 72 72 72 72 72 72 72 72	A, DV A, UV A, UV Z, MU Z, MU	Alk. Alk. Gros Coros Coros Coros Coros Coros Coros Coros Coros Coros Coros											Seals Present Yes No Headspace Yes No	ce Sampl	Neceived By: Date/Lime:
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	Report To Information	Company Name: JDS-14cdrc (cnxul lands)	Contact Name: Mark Volle		WISHS E. PILLERE AND	Sune 300	City CS Star CZID & CAS	e-911.ª	Email: MVolleCidehydre, Com	Sampler Name: Action of Muserker PO No.		CAL Task No.	170324007	Ра	ARF ARF	w Date Time Client Sample [D / EP Code		117 1018 22-5	C # +10°	× 1 3	117 PC:S		1)0117	17	8177 65-8	1/ 8/12 #19	OCT beis .	Instructions:	Relinquished By Date/Time:	1:200 1:200 1:200

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

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

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

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	Report To Information	Company Name: JDS-H-dro Cerrout Hards	Contact Name:	Address: J. S. S.		Phone: 119-337-007 Pax:	Email:	Sampler Name: Sechante	CAL	170			ite	3-23				Τ			Τ			Instructions: No	with the both shipment.	Relinquish	Å
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Report To: Mark Volle Company: JDS Hydro Consultants 545 E. Pikes Peak Ave Suite 300 Colorado Springs CO 80903 **Analytical Results**

TASK NO: 170324007

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

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

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

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

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

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

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

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Ser	ction I (Supply	Section I (Supplied or Completed by Public Water System)	c Water System)	Section J1 (Sum	Section J1 (Sumplied or Completed by Certified Laboratory)	by Certified L	aboratory)	
PWSID#: C00121724	1	A TT ALCO SYSTEM LIMULING		Laboratory ID: CO 00063	CETTURED LADOFATORY INTORMATION	Information		
System Name: S	Sterling Ranch MD	MD		Laboratory Name: Colorado /	Colorado Analytical Laboratory	ſJ		
Contact Person: Mark Volle	Mark Volle		Phone #: 719-227-0072	Contact Person: Customer Service		Phone: 303-659-2313	-2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
PWSID#: CO0121724	724		Section V (Supplied or Compl	(Supplied or Completed by Public Water System)				
Sample Date: 3/23/17	717	Collector: Stephanie Schwenk Facil	hwenk Facility ID (On Schedule):	New Well Sample	Sample Pt ID (On Schedule):	: New Well	0	
		Section VI Sy	inthetic Organic Chemicals (Sur	leted by C	I Laboratory)			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	Analytical Method	MCL (us/L)	Lab MRL (us/L)	Result (uo/1.)
3/24/17	4/3/17	170324007-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
3/24/17	3/29/17	170324007-01G	2,4D	94-75-7	EPA 515.4	70	0.1	BDL
3/24/17	3/29/17	170324007-01G	2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL
3/24/17	3/31/17	170324007-011	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb	116-06-3	EPA 531.1	N/A	0.6	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL
3/24/17	3/31/17	170324007-011	Atrazine	1912-24-9	EPA 525.2	3	0.1	BDL
3/24/17	3/31/17	170324007-011	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
3/24/17	3/31/17	170324007-011	Carbofuran	1563-66-2	EPA 531.1	40	6.0	BDL
11/4/15	3/30/17	170324007-01F	Chlordanc	57-74-9	FPA 505	7	0.2	BDL
11/1-7/5	11/67/5	11/032400/-011	Dalapon	75-99-0	EPA 515.4	200	-	BDL
111-710	11/12/2	170324007-011	Dil 2-cuny incxy i batic	103-23-1	EPA 525.2	400	0.6	BDL
211-210	11/10/2	11/02/400/-010	LJN(2-ctrtyIncxyI)prtnalate	117-81-7	EPA 525.2	9	0.6	BDI,
11/47/2	11/67/6	010-/0020001	Diposch	85-85-7	EPA 515.4	7	0.2	BDL
114710	3/24/17	710-/0072001	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
3/24/1/	3/29/17	170324007-01K	Endothall	145-73-3	EPA 548.1	100	6	BDL
11/47/2	3/30/1/	1/032400/-015	Endrin	72-20-8	EPA 505	2	0.01	BDL
3/24/17	4/3/17	170324007-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL
3/24/1/	3/31/17	170324007-011	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
3/24/1/	3/30/17	170324007-01F	Hentachlor epoxide	1024-57-3	HPA 505	0.2	0.02	BDL
NT: Not Tested ug/L:	Micrograms per l	Liter MCL: Maximum Contamir	nant Level BDL Below Laboratory MI	NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also be used	xt.		170324007-01	N 1/2 4/21/17

Page 1 of 4

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

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

170324007-01 N 2/2 4/21/17

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Colorado Anolytical LABORATORIES, INC.	Brighton Lab 240 South Main Street		Lakewood Lab 12860 W. Cedar Dr. Snite 100A			Fax: 303-659-2315	www.coloradolab.com		k analysis) Subcontract Analyses	((Circle) (Circle) JC /Beta	m n 228 n 228 y phys y								×			Seals Present Yes No C Headspace Yes No C	Temp. °C/Ice Sample Pres. Yes 🗌 No 🗍	Received By: Date/Time:
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Page 20	HELIE 10 CO: UISMA	System name: Ser line Ranch MS	Address: Bruider Crewit		City (S	County: El Paso	Compliance Samples: Yes 🚺 No 🗌	Send Forms to State: Yes No. W	PHASE 1, 11, V Drinking Water Analyses (check analysis)		ihall tt	onqvi Endor Bique	254°5 248°1 248°1 248°1										ioj	Delivered Via:	Relinquished By:
Drinking Water Chain of Custody Bill To Information (If different from report to)	Company Name: SR Wader	Davied	and der Cresent	AL COAL	Stat DZip 20"103	Fax:	38706021.00	2	PHASE I, I		s-Pest	ROC	2.25.2 2.15.4 2.15.4 1.502 1.502				*					×	C/S Info:	 Ă	Date/Time: Rel
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Colocado Department		43	00 Chei	ry Creek	Drive Sou	uth; Denver	4300 Cherry Creek Drive South; Denver, CO 80246-1530				
of Public Health and Environment		μ.	Fax: (30:	3) 758-13	98; cdphe.	.drinkingwa	(303) 758-1398; cdphe.drinkingwater@state.co.us				
	Section	Section I (Supplied or Completed by Public		Water System)			Section II (Supplied or Completed by Certified Laboratory)	ed or Completed	by Certified I	aboratory)	
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PWS ID: C00121724	21724				Ĺab	Laboratory ID: CO 00008	00008				
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Contact Person:			Phone #:		C	Contact Person: Jessica Axen	ssica Axen		Phone #: 303-279-4501	279-4501	
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			Section	IV Radionu	iclides (Suppl	lied or Comply	Section IV Radionuclides (Supplied or Completed by Certified Laboratory)	lory)			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID		Analyte ?	Analyte Name (Code)		CAS No.	Analytical Method	MCL	Lab MRL	Result
03/24/2017	04/18/2017	C27017-001	Gross	Alpha Inclu	Gross Alpha Including Uranium (4002)	um (4002)	12587-46-1	SM 7110 B	N/A.	1.5	0.0(±1.5)
				Combined (Combined Uranium (4006)	06)	7440-61-1	D2907-97	30 ug/L		
03/24/2017	04/07/2017	C27017-001		Radium	Radium -226 (4020)		13982-63-3	SM 7500-Ra B	N/A	0.1	0.4(±0.3)
03/24/2017	03/30/2017	C27017-001		Radium	Radium -228 (4030)		15262-20-1	EPA Ra-05	N/A	0.6	0.2(±0.6)
03/24/2017	04/18/2017	C27017-001		Gross E	Gross Beta (4100)		12587-47-2	SM 7110 B	50 pCi/L*	2.1	0.0(±2.0)
			T.	otal Dissolv	Total Dissolved Solids (1930)	930)		EPA 160.3	N/A		
*The MCL fo	r Gross Beta F	*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.	ar. Since l	there is no s	simple conve	ersion betwee	in mrem/year and pCi/L	EPA considers 2	50 pCi/L to b	e the level o	of concern.
			Sei	tion V Calc	Section V Calculated Values	99					
	~	N/A	Gross /	Alpha Exch	Gross Alpha Excluding Uranium (4000)	am (4000)	Calculated Value	alue	15 pCi/L	N/A	
			Combin	led Radium	Combined Radium {-226 & -228} (4010)	28} (4010)	Calculated Value	alue	5 pCi/L	N/A	
IN	NT: Not Tested						ug/L: Micrograms per Liter	15 per Liter			
La	MRL: Labor	Lab MRL: Laboratory Minimum Reporting Level	svel				pCi/L: Picocuries per Liter	s per Liter			

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

pUtL: Picocuries per Liter MCL: Maximum Contaminant Level

Drinking	
Water	
Chain	
of	
Custody	

Bill To Information (If different from report to) State Form / Project Company Name: same PWSID: CO01217 Contact Name: System Name: Sterili Address: System Name: Sterili City: State: Zip: City: State: Zip: Phone: Fax: County: El Paso Email: Compliance Samples PO No.: Send Forms to State	Sampler Name:	2	Email: stuartnielson@coloradolab.com	Phone:303-659-2313 Fax:303-659-2315	City: Brighton State: CO Zip: 80601	Address: P.O. Box 507	Contact Name: Stuart Nielson	Company Name: Colorado Analytical Labs	Report To Information
State Form / Project Information PWSID: CO0121724 System Name: Sterling Ranch MD System Address: 20 Boulder Crescent City: Colo Spgs State: CO Zip: 8090 County: El Paso Compliance Samples: Yes X No Send Forms to State: Yes No	PO No.:		Email:	Phone:	State:	Address:	Contact Name:	Company Name: same	Bill To Information (If different from report to)
	Send Forms to State: Yes 🔲 No 🕅		Compliance Samples: Yes 🛛 No 🗌	County: El Paso	City: Colo Spgs State: CO Zip: 80903	System Address: 20 Boulder Crescent	System Name: Sterling Ranch MD	PWSID: C00121724	State Form / Project Information

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1150	Daye/Timf: Re		Please print results on Colorado State form but do not submit to CDPHE. Thank you.						170324007 Sterling Ranch MD	Client Sample ID / EP Code			
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	Ý:		** Combined Radium -226 & -228. abmit to CDPHE. Thank you.							(mg/l	lual Chlorine L) Samples Only		
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Colorado Analytical

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

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

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

www.coloradolab.com



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

TASK NO: 170324007

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

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

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

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

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

8:03 AM Lab Number: 170324007-01

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

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

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



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

Analytical Results

TASK NO: 170324007

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

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

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

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

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

April 06, 2017

Colorado Analytical Laboratories Inc PO Drawer 507 Brighton, CO 80601

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

Project Name: 170324007 Sterling Ranch MD

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

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

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

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

Report Approved By:

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

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

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

.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

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

Report Definitions:

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



LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch

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

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

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

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



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

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

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

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

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



LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch

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

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

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



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625								Batc	h: 107942
Lab ID: LCS-107942	Laboratory Con	trol Sample			Run: SV59	73N2.I_170330B		03/30)/17 16:43
Di-n-butyl phthalate	87.1	ug/L	10	87	61	110			
1,2-Dichlorobenzene	69.3	ug/L	10	69	43	81			
1,3-Dichlorobenzene	64.0	ug/L	10	64	41	79			
1,4-Dichlorobenzene	64.5	ug/L	10	64	42	79			
3,3'-Dichlorobenzidine	64.8	ug/L	10	65	51	93			
2,4-Dichlorophenol	70.6	ug/L	10	71	49	90			
Dimethyl phthalate	82.5	ug/L	10	82	58	104			
Di-n-octyl phthalate	93.4	ug/L	10	93	56	110			
Dibenzo(a,h)anthracene	87.8	ug/L	10	88	61	111			
2,4-Dimethylphenol	66.2	ug/L	10	66	45	89			
4,6-Dinitro-2-methylphenol	66.1	ug/L	50	66	37	105			
2,4-Dinitrophenol	54.1	ug/L	50	54	27	81			
2,4-Dinitrotoluene	86.2	ug/L	10	86	63	110			
2,6-Dinitrotoluene	77.2	ug/L	10	77	60	107			
bis(2-ethylhexyl)Phthalate	86.0	ug/L	10	86	56	108			
Fluoranthene	84.2	ug/L	10	84	63	110			
Fluorene	89.3	ug/L	10	89	60	99			
Hexachlorobenzene	82.7	ug/L	10	83	57	103			
Hexachiorobutadiene	71.7	ug/L	10	72	39	83			
Hexachiorocyclopentadlene	81.0	ug/L	10	81	39	91			
Hexachloroethane	65.0	ug/L	10	65	37	75			
Indeno(1,2,3-cd)pyrene	83.2	ug/L	10	83	59	109			
Isophorone	69.8	ug/L	10	70	42	102			
n-Nitrosodimethylamine	36.8	ug/L	10	37	20	45			
n-Nitroso-di-n-propylamine	76.6	ug/L	10	77	49	98			
n-Nitrosodiphenyiamine	91.5	ug/L	10	92	61	108			
2-Nitrophenol	72.3	ug/L	10	72	51	96			
4-Nitrophenol	27.4	ug/L	50	27	15	36			
Naphthalene	68.1	ug/L	10	68	48	96			
Nitrobenzene	77.9	ug/L	10	78	51	91			
Pentachiorophenol	72.4	ug/L	50	72	53	109			
Phenanthrene	82.0	ug/L	10	82	58	104			
Phenol	40.6	ug/L	10	41	27	45			
Pyrene	85.0	ug/L	10	85	64	108			
1,2,4-Trichlorobenzene	71.2	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	73.9	ug/L	10	74	47	99			
Surr: 2-Fluorobiphenyl			10	69	28	107			
Surr: 2-Fluorophenol			10	42	20	56			
Surr: Nitrobenzene-d5			10	72	32	94			
Surr: Phenoi-d5			10	36	19	45			
Surr: Terphenyl-d14			10	80	32	122			
Surr: 2,4,6-Tribromophenol			10	70	21	130			

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Batcl	h: 107942
Lab (D:	C17030850-001CMS	Sample Matri	k Spike			Run: SV59	73N2.I_1703308	ł	03/30	/17 17:45
Acenaphthe	ene	86.7	ug/L	10	87	58	99			
Acenaphth	ylene	75.5	ug/L	10	76	57	96			
Anthracene)	81.6	ug/L	10	82	60	107			
Azobenzen	e	84.6	ug/L	10	85	56	100			
Benzidine		122	ug/L	20	122	10	100			S
Benzo(a)an	thracene	83.4	ug/L	10	83	62	114			
Benzo(a)py	rene	78.4	ug/L	10	78	62	108			
Benzo(b)flu	oranthene	79.9	ug/L	10	80	48	127			
Senzo(g,h,i)perylene	83.2	ug/L	10	83	62	121			
Benzo(k)flu	oranthene	84.5	ug/L	10	84	55	111			
4-Bromoph	enyl phenyl ether	79.5	u g /L	10	79	58	105			
Butylbenzyl	phthalate	89.2	ug/L	10	89	60	113			
4-Chloro-3-	methylphenol	78.3	ug/L	10	78	53	92			
bis(-2-chlor	oethoxy)Methane	77.9	ug/L	10	78	50	92			
bis(-2-chlor	oethyl)Ether	71.5	ug/L	10	71	44	82			
bis(2-chloro	bisopropyl)Ether	58.4	ug/L	10	58	56	87			
2-Chlorona	phthalene	77.6	ug/L	10	78	56	95			
2-Chloroph	enol	63.7	ug/L	10	64	47	76			
4-Chiorophe	enyi phenyi ether	81.0	ug/L	10	81	58	99			
Chrysene		85.9	ug/L	10	86	63	106			
Diethyl phth	nalate	84.0	ug/L	10	84	58	103			
Di-n-butyl p	hthalate	87.0	ug/L	10	87	61	110			
1,2-Dichlord	obenzene	67.3	ug/L	10	67	43	81			
1,3-Dichloro	obenzene	66.0	ug/L	10	66	41	79			
1,4-Dichloro	obenzene	66.7	u g /L	10	67	42	79			
3,3'-Dichlor	obenzidine	131	ug/L	10	131	51	93			S
2,4-Dichlord	-	70.0	ug/L	10	70	49	90			
Dimethyl ph		79.3	ug/L	10	79	58	104			
Di-n-octyi pi		81.8	ug/L	10	82	56	110			
	i)anthracene	80.1	ug/L	10	80	61	111			
2,4-Dimethy		70.7	ug/L	10	71	45	87			
	2-methylphenol	53.1	ug/L	50	53	37	105			
2,4-Dinitrop		43.0	ug/L	50	43	27	81			
2,4-Dinitroto		85.6	ug/L	10	86	63	110			
2,6-Dinitroto		81.5	ug/L	10	81	60	107			
	exyl)Phthalate	77.5	ug/L	10	77	56	108			
Fluoranthen	e	84.0	ug/L	10	84	63	110			
Fluorene		80.0	ug/L	10	80	60	89			
Hexachlorot		78.2	ug/L	10	78	57	103			
Hexachlorob		69.1	ug/L	10	69	39	83			
	cyclopentadiene	69.0	u g /L	10	69	39	91			
Hexachloroe		62. 6	ug/L	10	63	37	75			
Indeno(1,2,3	3-cd)pyrene	76.3	ug/L	10	7 6	59	109			

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625								Batc	n: 107942
Lab ID: C17030850-001CMS	Sample Matrix	c Spike			Run: SV59	73N2.I_170330B		03/30	/17 17:45
lsophorone	71.4	ug/L	10	71	42	102			
n-Nitrosod/methylamine	26.1	ug/L	10	26	20	45			
n-Nitroso-di-n-propylamine	76.1	ug/L	10	76	49	98			
n-Nitrosodiphenylamine	105	ug/L	10	105	61	108			
2-Nitrophenol	73.5	ug/L	10	74	51	96			
4-Nitrophenol	25.8	ug/L	50	26	15	36			
Naphthalene	75.6	ug/L	10	76	48	96			
Nitrobenzene	75 .6	ug/L	10	76	51	91			
Pentachlorophenol	60.3	ug/L	50	60	53	109			
Phenanthrene	83.8	ug/L	10	84	58	104			
Phenol	38.7	ug/L	10	39	27	45			
Pyrene	87.0	ug/L	10	87	64	108			
1,2,4-Trichlorobenzene	74.7	ug/L	10	75	49	85			
2,4,6-Trichlorophenol	68.8	ug/L	10	69	47	99			
Surr: 2-Fluorobiphenyl			10	51	28	107			
Surr: 2-Fluorophenol			10	41	20	56			
Surr: Nitrobenzene-d5			10	64	32	94			
Surr: Phenol-d5			10	33	19	45			
Surr: Terphenyl-d14			10	73	32	122			
Surr: 2,4,6-Tribromophenol			10	67	21	130			



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

RL - Analyte reporting limit.



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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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



C17030850

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

Login completed by:	Corinne Wagner	Date Received: 3/28/2017										
Reviewed by:	Kasey Vidick		Received by: ckw									
Reviewed Date:	3/29/2017		Carrier name: Ground									
Shipping container/cooler in	good condition?	Yes 🔽	No 🗌	Not Present								
Custody seals intact on all sh	hipping container(s)/cooler(s)?	Yes	No 🗌	Not Present 🗹								
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present								
Chain of custody present?		Yes 🗹	No 🗌									
Chain of custody signed whe	n relinguished and received?	Yes 🗸	No 🗌									
Chain of custody agrees with	sample labels?	Yes 🗹	No 🗌									
Samples in proper container/	bottle?	Yes 🖌	No 🗌									
Sample containers intact?		Yes 🗸	No 🗌									
Sufficient sample volume for	indicated test?	Yes 🗹	No 🗌									
Ail samples received within h (Exclude analyses that are co such as pH, DO, Res Cl, Sul	onsidered field parameters	Yes 🗹	No 🗌									
Temp Blank received in all sh	hipping container(s)/cooler(s)?	Yes 🗌	Na 🗸	Not Applicable								
Container/Temp Blank tempe	rature;	6.6°C On Ice -	From Field									
Water - VOA vials have zero	headspace?	Yes 🗹	No 🗌	No VOA vials submitted								
Water - pH acceptable upon i	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

	 Colorado Analytical Laboratories, inc. 	Brighton Lab	240 South Main Street Brighton, CO 80601	Lakewood Lab	Lakewood CO 80228	V Phone: 303-659-2313 Fax: 303-659-2315	www.coloradolah.com			UTAZO50										Seals Present Yes D No D UNY	Temp. 6 (%Clice) 2 Sample Pres. Yes D No D	Received By: Date/Time:	NDX (3. H-1
	Project Name	170324007	Sterling Ranch MD	Task Number (Lab Use Only)	CAL Task No. 15-11 170324007	ţ	ARE	Disposal Date(Lab Use Only)				koiđ tei J	SOC3 Long 0 1,4-	¢79 978						Scals Pri	C/S Charge 🔲 Temp. (Date/Time: Recei	
Chain of Custody Form	Bill To Information (If different from report to)	Company Name: Same	Contact Name:	Address:		City State Zip	Phone: Fax:		PO No.:			onO z	01 Co	Grai Or (C/S lufo:	Deliver V	y: Date/Time: Relinquished By:	
		Company Name: <u>Colorado Analytical Laboratoy</u>	vielson			State CO Zip80601	Fax:303-659-2315	oloradolab.com			Soil	Sladge	Compost		I 70324007 Sterling Ranch MD					rgy Labs		Date/Time: Received By: 3/27/77	1100
	Report To Information	Company Name: Colori	Contact Name: Stuart Nielson	Address: P.O. Roy 507	240 S Main St		Phone:303-659-2313	Email: stuarmielson@coloradolab.com	Sample Collector:		Waste Water	Ground Water 🛛	Surface Water							Instructions: UPS to Energy Labs		Relinquished By:	M.M.Celler