

WATER RESOURCES For Retreat at TimberRidge Filing No. 2

Dated April 2021

Prepared By:



Executive Summary:

Water Resources and Wastewater Report—Overall Retreat at TimberRidge Updated April 30, 2021 for Filing No. 2

Retreat at TimberRidge development by Arroya Investments consists of approximately 227 acres located east of Vollmer Rd and north of Woodmen Rd, in portions of Section 21, 22, 27 & 28, Township 12 South, Range 65 West of the 6th P.M. The land is to be provided water and sewer services through either the Sterling Ranch Metropolitan District (SRMD) or on-site individual wells and septic.

It is expected an urban residential home in Retreat at TimberRidge will require an average of 0.353 annual acre-feet. Rural residential homes in Retreat at TimberRidge will require an average of 0.32 annual acre-feet. This is consistent with historic needs for nearby developments.

The larger rural lots anticipated will be served by on-site single-family wells and septic. After considering water line layout, it was determined that larger rural lots 39, 40, and 41, could be easily provided for Central Water and would be better served on central water. For this reason, the overall Water Resources needed for the Retreat include 167 lots. The following augmentation plans are in place, or pending, to serve these lots.

• An augmentation plan (18CW3002-pending) relinquishes 2,796 acre-feet of Laramie Fox Hills NT water to augment the single family wells on in the Dawson NNT aquifer.

The water available for the Central System from On-site sources is 42.76 annual acre-feet (on a 300 year basis). Therefore, the available supply will not meet the legal and physical needs of 167 residential homes (or single family equivalents) which is 58.95 annual acre-feet. An additional 16.19 annual acre-feet is required.

The SRMD has committed to providing the additional water resources on a 300-year basis to make up the annual acre-foot shortfall from the District's overall sources of supply. The Arapahoe and LFH NT water available on Phase 1 of the Retreat at TimberRidge was not included in the currently available on-site supply in the SRMD commitment letter.

Additional NNT water may be made available if and when an augmentation plan is developed and approved. Certain other rights will be necessary in order to develop and augment this supply.

Filing No 2 of Retreat at TimberRidge is wholly contained within the Overall Water Resources Report which has been updated here to include 78 urban style lots that will be served Central Water and Sewer from Sterling Ranch Metropolitan District and 12 large rural style lots provided water and sewer from wells and septics. Water Quality information for the wells was previously submitted to El Paso County Health Department and is included here.

TABLE OF CONTENTS

SECTION 1 INTRODUCTION

1.1 New Development Description

SECTION 2 PROJECTION OF WATER NEEDS

2.1 Analysis of Water Demands
Table 2-1 – *Projected Water Demands for Retreat at TimberRidge*

SECTION 3 PROPOSED WATER RIGHTS AND SYSTEM FACILITIES

- 3.1 Water Rights
 - Table 3 Summary of Immediately Available Legal Water Supply for Retreat at TimberRidge Phase 1-6
- 3.2 Source of Supply
- 3.3 Master Planning and Long-Term and Future Sources of Supply
- 3.4 System Interconnects
- 3.5 Source of Supply
- 3.6 Water Quality and Treatment
- 3.7 Water Storage and Distribution and Transmission Lines
- 3.8 Pumping for Service Pressures

APPENDICES

- Appendix A- Water Service Areas
- Appendix B. Final Plat for Retreat at TimberRidge Filing #2
- Appendix C- Overall Water Supply Inventory Sterling Ranch including Retreat at TimberRidge
- Appendix D- Well Permits

77785 -F 77786-F

Water Rights Decrees

17CW3002 86 CW 18

18 CW 19

Appendix E- Water Quality from Sterling Existing Wells and Nearby Single Lot well

Appendix F- Sterling Ranch Water Supply vs Current Water Commitments

Appendix G- Water Supply Summary Form

SECTION 1 INTRODUCTION

The purpose of this study is to provide a preliminary outline of the water resources and wastewater needs that would be necessary for Phase 1-6 of the Retreat at TimberRidge development.

This update is for Filing #2 including 78 urban lots being served Central Water and Sewer and 12 rural lots being served by Well and Septic.

1.1 New Development Description:

Retreat at TimberRidge development consists of approximately 261 acres located east of Vollmer Rd and north of Woodmen Rd and approximately 7 acres west of Vollmer Rd allocated for Lots 11 and 12 owned by Jacob Decoto, Section 27 & 28, Township 12 South, Range 65 West of the 6th P.M. Phase 1-6 is designated for 205 residential units in addition to stormwater detention facilities, open space, drainageway, and trails.

This update is for Filing #2 including 78 urban lots being served Central Water and Sewer and 12 rural lots being served by Well and Septic.

Appendix A contains the Overall Service Area Map for Sterling Ranch Metro District

Appendix B contains the Final Plat for the Retreat at TimberRidge Filing #2

SECTION 2 PROJECTION OF WATER NEEDS

2.1 Analysis of Water Demands:

It is expected that the residential lots on central water will be developed with single family housing anticipating turf grass landscaping. The expected water demands are shown below.

78 SFE lots at 0.353 Annual AF yields 27.53 Annual AF 12 Rural Lots at 0.32 Annual AF/lot equals 3.84 Annual AF

This update is for Filing #2 which is wholly contained within the Overall Demands for TimberRidge noted in Table 2-1.

Table 2-1 -Projected Water Demands for Overall Retreat at TimberRidge

| # of Units | Land Use | Water Use Per Unit (AF/Unit) | Annual Demand (AF) | Average Daily Flow (ADF) (GPD) | Maximum Daily Flow (MDF) (@ 2.45 x ADF) (GPD) | Peak Hour Flow (@ 1.5 x MDF) (GPM) |
|---------------|---|---------------------------------|--------------------------|--|---|---|
| 167 | Residential (Urban, Central systems) | 0.353 | 58.95 | 52,627 | 128,900 | 133 |
| 41 * | Residential (Rural, Well & OWTS) | 0.32 | 21.73 | 19,399 | 47,528 | 50 |

Total Annual Demand of Retreat at TimberRidge (sans individual wells on rural lots) is 58.95 Acre-Feet.

• The augmentation case 18 CW 3002 covers 41 lots, so we have re-iterated that number here but it should be noted that 3 of the larger lots will be served with central water and are also included in the 167.

SECTION 3 PROPOSED WATER RIGHTS AND SYSTEM FACILITIES

3.1 Water Rights:

The following analysis presents water rights and supply information for the Overall Retreat at TimberRidge. Retreat at TimberRidge Filing No. 2 is wholly contained within this presentation.

Water rights adjudications have been decreed by the State of Colorado, Water Division 2 District Court. The findings and relevant summary information is displayed in **Appendix C**.

<u>Table 3-1</u> <u>Summary of Immediately Available Legal Water Supply</u> for Retreat at TimberRidge Phase 1-6 including Filing #2

| Water | Annual Su (Acre-Feet | |
|---------------------|-------------------------|---|
| On-site NT Water | 42.76 | Available Immediately (Phase 3, 4 (not incl. Lot 39-41), & 6) |
| On-Site NNT Dawson | 15.35 | Available Immediately (Phase 2 (not incl. Lot 11-12), |
| On-Site NNT Dawson | 5.23 | Available Immediately (Phase 1) |
| Off-Site NNT Dawson | 2.00 | Available Immediately Lots 11 & 12 in Phase 2 |

An augmentation plan (18CW3002) relinquished 2,796 acre-feet of LFH NT water to augment 29 single family wells in the Dawson NNT aquifer. An augmentation plan (16CW3095) relinquishes additional 1567.5 acre-feet of NT water to augment the 10 single family wells (not incl. Lot 11 & 12)

The total 300 year legal water supply currently available from on-site sources is 42.76 annual acre-feet. Therefore, the available supply will not meet the legal and physical needs of 167 residential homes (or single family equivalents) which is 58.95 annual acre-feet. An additional 16.19 annual acre-feet is required.

The SRMD has committed to providing the additional water resources on a 300-year basis to make up the annual acre-foot shortfall from the District's overall sources of supply. A previously updated SRMD commitment letter allocates an estimated 16.19 annual acre-foot required.

Additional NNT water may be made available if and when an augmentation plan is developed and approved.

Beneficial use of the water from the decrees includes domestic, commercial, irrigation, stock water, recreation, wildlife, wetlands, fire protection, piscatorial, and for storage and augmentation associated with such uses and excludes

municipal use. The beneficial uses will need to be revised to include municipal use.

<u>Appendix D</u> includes the applicable well permits and decrees enumerated in Table 3 as the onsite/offsite water decrees.

3.2 Source of Supply:

Municipal water demand would be met using primarily Arapahoe and Laramie-Fox Hills formation wells. Arroya Investments has contracted with SRMD for the provision of municipal water services.

Retreat at TimberRidge will be served from SRMD Well Site #1. Well Site #1 will include all storage, treatment, and pumping facilities required to meet the SRMD demands.

3.3 *Master Planning and Long-Term and Future Sources of Supply:*

The Sterling Ranch water system has only a single year of operation so little or no usable historic information would be reliable for unique long-term planning. However, substantial nearby data from the Falcon area is available for use. As of mid-year the system had only roughly 110 active users. Therefore, initial projections have been based on areawide water user characteristics and a linear buildout rate. This rate is considered to be an average annual rate that might be reasonably maintainable over a 10-year period. The average growth rate is projected as 180 units added per year.

2040 Scenario: Based on the above factors, the Sterling system might conservatively be expected to be serving 3,710 single family equivalents in the year 2040. This number is a service area projection and includes the Retreat and The Ranch as well as the main Sterling Ranch. This would require 1,310 annual acre-feet of water.

2060 Scenario; Based on the same factors, the Sterling system might be expected to be serving 7,310 single family equivalents within its expanded service area that includes the Retreat and The Ranch. This would be substantially greater than the actual Sterling Ranch. The annual acre-foot requirement might be 2,580 annual acre-feet but supply would likely include water from The Ranch.

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

a) The McCune Water SR Water LLC has contracted with the McCune Ranch to purchase non-tributary water rights in El Paso County. These water rights include Laramie Fox Hills, Arapahoe, and Denver formation water totaling 118,900 Acre-feet. Some additional Not Non-tributary water is included but not included in this calculation at this time.

- b) Pending Case 20 CW 3059 will add a net 104 Acre-feet to the SRMD supply which may be completed within 2021.
- b) The Bar-X Water has also been contracted for in a similar manner to McCune, 178. has already been purchased, but remaining Laramie Fox Hills, Arapahoe, and Denver formation water totaling 204,433 Acre-feet. Some additional Not Non-tributary water is included but not included in this calculation at this time.

In addition to adding off-site sources, is considering additional supplies that would potentially include renewable resources and/or regional projects bringing new water to the area.

Long Term Planning: Future water supply has already been contracted for and plans for implementation are under way. The first project is to provide augmentation for certain on-site NNT water, so that that water may be used in existing and expanded well fields on-site:

1. **On-site NNT Water (Now Case 20 CW 3059)**: There is a substantial amount of Not Non-tributary water available on the Sterling site which will be the purpose of a pending augmentation plan. In addition to augmentation, this case will also quantify and seek decree on certain Schmidt water obtained by purchase. The Schmidt water includes 2780 acre-feet of NT LFH water and 9,215 acre-feet of NNT Arapahoe and Denver water. The Schmidt property and water rights are adjacent to Sterling Ranch.

This plan will use Bar-X water; and Lawn Irrigation Return Flow Credits to meet augmentation and post-pumping depletions for 72,953 Sterling Ranch Denver and Arapahoe NNT water as well as 9,215 acre-feet of owned This water rights case will result in a NET gain of 31,348 acre-feet of water. This case is important because it will make the existing owned off-site water available on-site as well as adding legal and physical source of supply. This case is expected to be completed in 2021 but will not be needed on a physical basis until about 2029. If/when this case is resolved it would potentially add a net of 104.49 Annual AF300 to the SRMD supply. This will extend adequate supply for serving roughly 1975 SFE.

2. **Bar-X Northern Delivery Project:** To extend supplies beyond 1,975 SFE, the McCune and Bar-X contracts for water acquisition will require a major pipeline to be extended northerly to Hodgin Road. This pipeline system will make both McCune and Bar-X water being acquired to be physically as well as legally available to Sterling. Preliminary routing, environmental assessments, and 1041 applications are under way for this facility. As discussed above, development beyond 1,975 SFE will require this pipeline.

3. *McCune and Bar-X Acquisitions*; The off-site acquisitions discussed above will be exercised as needed to continually add to the Sterling supply.

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

There is a 1,500 acre-foot set aside reducing the Denver formation portion of the McCune supply, leaving a net total of 117,400 acrefeet of NT water which yields a **391.33** AF₃₀₀ supply adding the capacity for an additional 1,109 SFE capacity.

Remaining un-purchased Bar -X Supply:

| | Acre-feet NT |
|--------------------|--------------|
| 93-CW018 Arapahoe | 74,250 |
| 93-CW018 Denver | 119,900 |
| Minus (Set-asides) | -31,348 |

There is additional Dawson NNT water included in the purchase arrangement, but no current augmentation plan is under consideration, so it is not counted here. This would provide an additional 576.95 AF₃₀₀ supply adding the capacity for an additional 1634 SFE capacity.

4. Regionalization opportunities:

- Sterling's main supply source is centralized at a point that both Cherokee Metropolitan District and Woodmen Hills Metropolitan District have adjacent major storage and delivery facilities. There are currently no arrangements in place to make connections, but in the future Sterling may seek to have interconnects and possibly share supply
- The second element is a much broader regionalization.
 Sterling has been open to cooperative actions with Colorado Springs Utilities (CSU). CSU potentially is open to shared physical facility utilization, which would enable Sterling to expand its scope in seeking water rights. While it is not expected that Sterling will provide actual water, the access to facilities opens greater doors for Sterling.

4. Indirect, Reuse, Lawn Irrigation Return Flows (LIRF) Credits, Aquifer Storage/Recharge; and Direct Reuse:

- Return Flows: Initial development is being planned around sourcing available physical supplies. These supplies are all fully consumable and ultimately result in potential return

flow capabilities. Since Sterling wastewater is discharged to the Meridian system which in turn has the potential to convert some reusable flows to available physical supplies those options will be available and considered by Sterling.

- LIRF Credits, Sterling has already initiated a case that will make augmentation use of its potential LIRF credits.

3.4 System Interconnects:

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

3.5 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. Existing Well Permits are included in **Appendix D**. Additional 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.

3.6 Water Quality and Treatment:

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

Additionally, water quality information relative to the single lot wells is also included as **Appendix E-1**.

3.7 Water Storage, Distribution and Transmission Lines

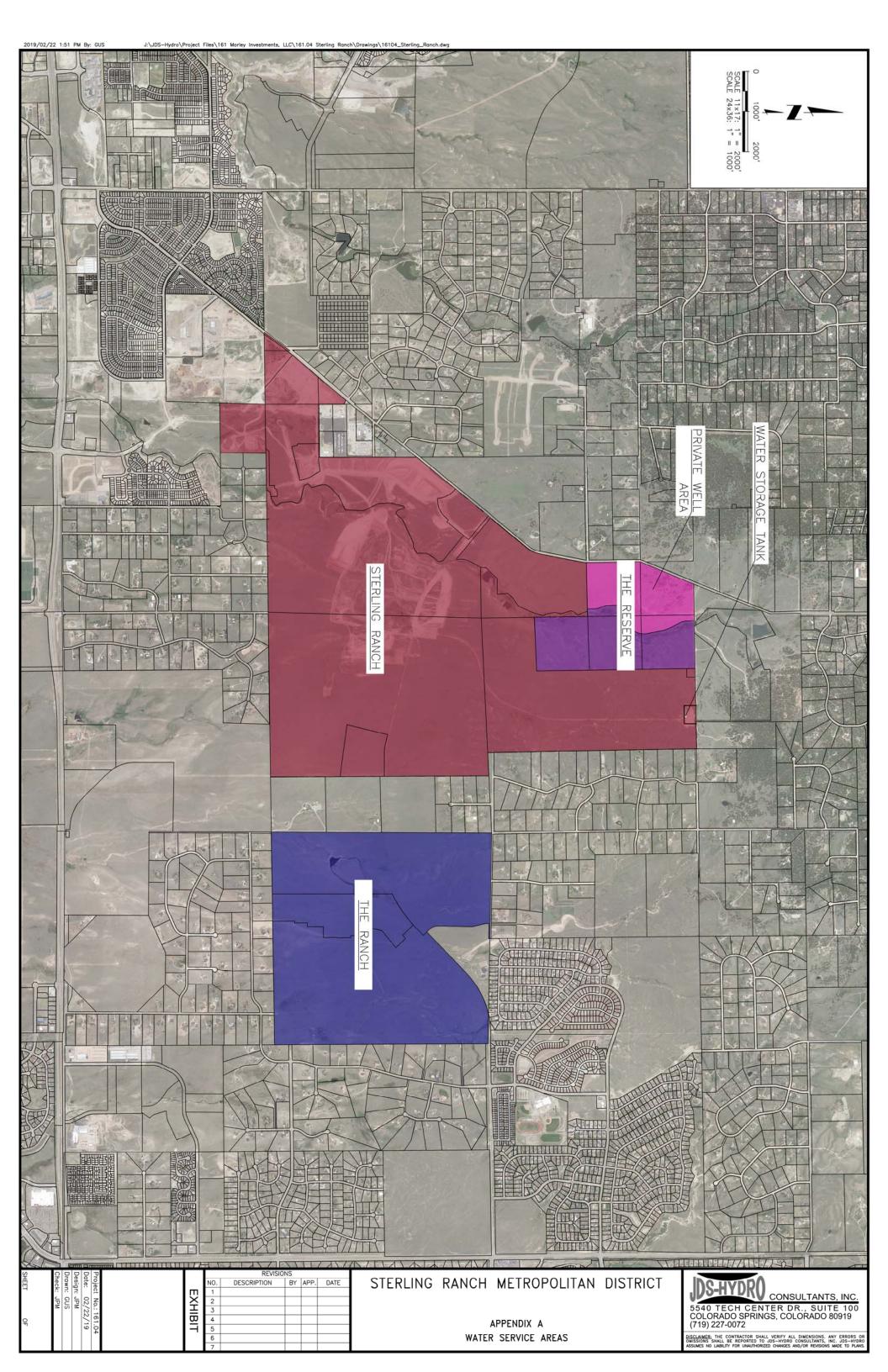
An initial tank has already been constructed at the Sterling site.

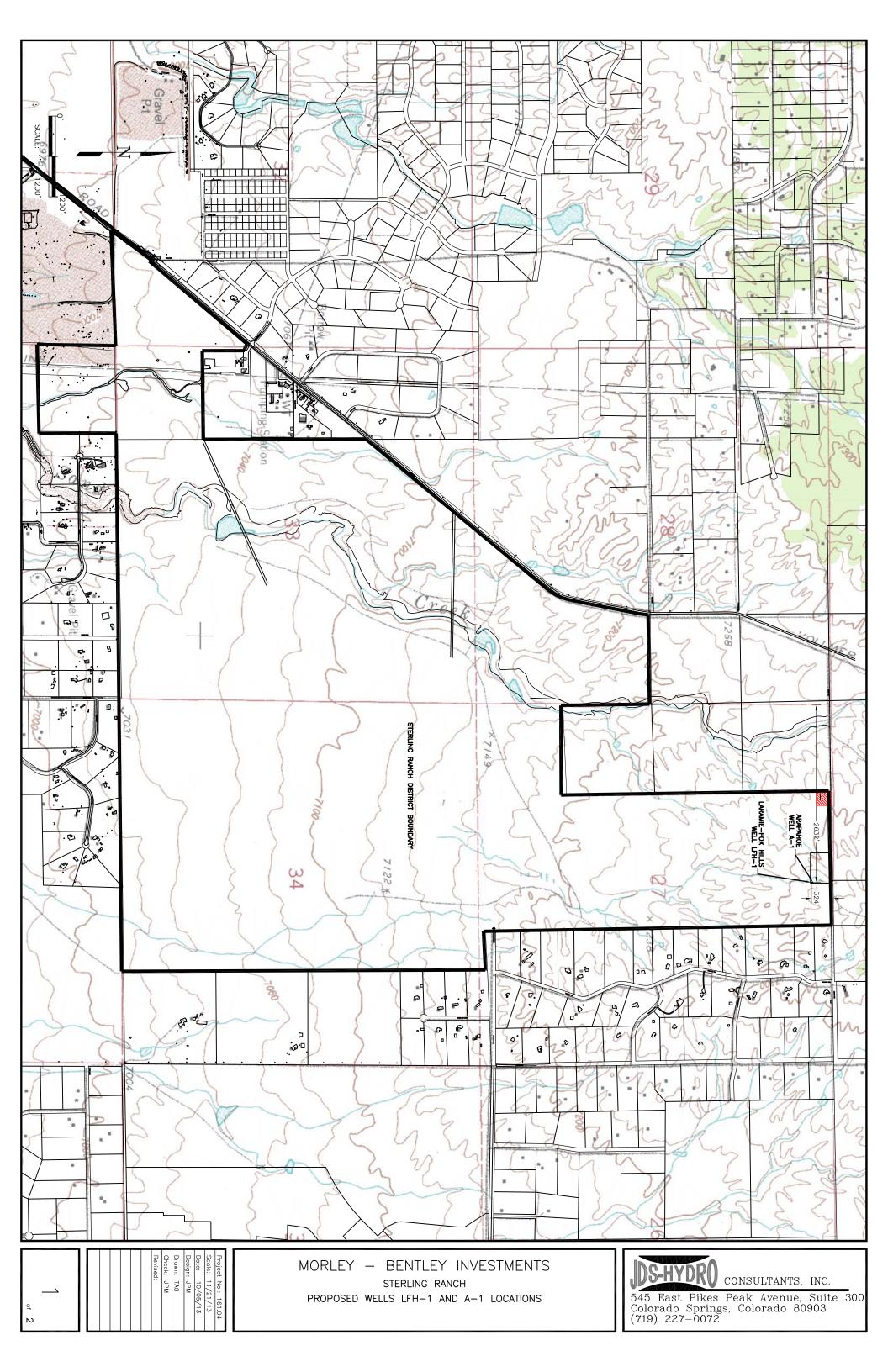
For the purpose of fire protection, we recommend 8-inch lines throughout the residential subdivision. The lines should be looped wherever street layout allows. A transmission line of a minimum of 18-inch diameter should be extended south-southwesterly along one of the major roadways from the storage tank into Phase One of the development.

3.8 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 including Retreat.





Appendix B

KNOW ALL MEN BY THESE PRESENTS:

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

TWO (2) PARCELS OF LAND BEING A PORTION OF SECTIONS 27 AND 28. TOWNSHIP 12 SOUTH. RANGÈ 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: THE SOUTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST

QUARTER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE WEST END WHICH IS THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 28, BY A 3-1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI PLS 10376, 2006" AND AT THE EAST END, WHICH IS A 30' WITNESS CORNER TO THE EAST OF THE EAST QUARTER CORNER OF SAID SECTION 28, BY A 3-1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI 10376, 2006", IS ASSUMED TO BEAR S89°08°28"W A DISTANCE OF 1356.68 FEET.

PARCEL A

COMMENCING AT THE NORTHWEST CORNER OF RETREAT AT TIMBERRIDGE FILING NO. 1 RECORDED UNDER RECEPTION NO. 220714653, EL PASO COUNTY, COLORADO, SAID POINT BEING ALSO ON THE EASTERLY RIGHT OF WAY LINE OF VOLMER ROAD AS RECORDED IN BOOK 2678 AT PAGE 430, SAID POINT BEING THE POINT OF BEGINNING;

THENCE N21*41'10"E, ON THE EASTERLY RIGHT OF WAY LINE OF SAID VOLMER ROAD, A DISTANCE

THENCE S68'18'50"E, A DISTANCE OF 40.00 FEET; THENCE S46°30'00"E, A DISTANCE OF 243.59 FEET TO A POINT ON CURVE;

THENCE ON THE ARC OF A CURVE TO THE RIGHT WHOSE CENTER BEARS S46°30'00"E, HAVING A DELTA OF 114°51'36", A RADIUS OF 60.00 FEET AND A DISTANCE OF 120.28 FEET TO A POINT ON

THENCE N12°00'00"E, A DISTANCE OF 307.77 FEET; THENCE S78°00'00"E, A DISTANCE OF 490.00 FEET;

THENCE S12°00'00"W, A DISTANCE OF 183.00 FEET; THENCE N90°00'00"E, A DISTANCE OF 378.68 FEET; THENCE S86°05'18"E, A DISTANCE OF 253.40 FEET; THENCE S00°00'00"E, A DISTANCE OF 208.46 FEET;

THENCE S41°00'00"E, A DISTANCE OF 256.15 FEET; THENCE S16"19'41"E, A DISTANCE OF 155.30 FEET; THENCE S03°30'00"W, A DISTANCE OF 107.28 FEET; THENCE S17°19'01"W, A DISTANCE OF 103.72 FEET; THENCE S18°00'00"W, A DISTANCE OF 100.00 FEET;

THENCE S19'43'22"W, A DISTANCE OF 95.70 FEET; THENCE S27'50'00"W, A DISTANCE OF 94.45 FEET; THENCE S35'37'50"W, A DISTANCE OF 108.98 FEET; THENCE S36'37'30"W, A DISTANCE OF 200.00 FEET;

THENCE S53°22'30"E, A DISTANCE OF 150.00 FEET; THENCE S36°37'30"W, A DISTANCE OF 10.00 FEET TO THE NORTHWESTERLY CORNER OF SAID RETREAT AT TIMBERRIDGE FILING NO. 1;

THENCE ON THE NORTHERLY BOUNDARY OF SAID RETREAT AT TIMBERRIDGE FILING NO. 1 THE FOLLOWING TWELVE (12) COURSES:

S36°37'30"W, A DISTANCE OF 263.98 FEET TO A POINT OF CURVE;

2. ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 12°37'30", A RADIUS OF 525.00 FEET AND A DISTANCE OF 115.68 FEET TO A POINT ON CURVE: N66°00'00"W, A DISTANCE OF 197.47 FEET;

4. N35°00'00"W, A DISTANCE OF 230.09 FEET; N05°00'00"W, A DISTANCE OF 55.08 FEET;

N85°00'00"E. A DISTANCE OF 184.29 FEET: NO4°30'10"W, A DISTANCE OF 243.01 FEET:

N90°00'00"W, A DISTANCE OF 424.49 FEET;

9. N54°48'53"W, A DISTANCE OF 205.37 FEET: N66'30'00"W, A DISTANCE OF 255.51 FEET TO A POINT ON CURVE; ON THE ARC OF A CURVE TO THE RIGHT WHOSE CENTER BEARS S66'30'00"E, HAVING A DELTA OF 09°20'00", A RADIUS OF 770.00 FEET AND A DISTANCE OF 125.43 FEET TO A

POINT ON CURVE; 12. N57"10'00"W, A DISTANCE OF 661.28 FEET TO THE POINT OF BEGINNING;

CONTAINING A CALCULATED AREA OF 45.715 ACRES.

PARCEL B

COMMENCING AT THE SOUTHEAST CORNER OF RETREAT AT TIMBERRIDGE FILING NO. 1 RECORDED UNDER RECEPTION NO. 220714653, EL PASO COUNTY, COLORADO, SAID POINT BEING THE POINT

THENCE ON THE EASTERLY BOUNDARY OF SAID RETREAT AT TIMBERRIDGE FILING NO. 1 THE FOLLOWING FOURTEEN (14) COURSES:

NO2'25'00"W, A DISTANCE OF 18.66 FEET TO A POINT OF CURVE;

ON THE ARC OF A CURVE TO THE RIGHT HAVING A DELTA OF 01°30'30". A RADIUS OF 1025.00 FEET AND A DISTANCE OF 26.98 FEET TO A POINT OF TANGENT;

N00°54'30"W, A DISTANCE OF 154.28 FEET;

S89°05'30"W, A DISTANCE OF 150.00 FEET; N00°54'30"W, A DISTANCE OF 175.00 FEET;

NO5°04'00"W, A DISTANCE OF 416.10 FEET;

N89°05'30"E, A DISTANCE OF 145.17 FEET;

S88°03'59"E, A DISTANCE OF 85.10 FEET; N89°05'30"E, A DISTANCE OF 160.00 FEET;

10. N00°54'30"W, A DISTANCE OF 720.00 FEET; 11. N06°02'18"E, A DISTANCE OF 136.13 FEET TO A POINT ON CURVE;

12. ON THE ARC OF A CURVE TO THE RIGHT WHOSE CENTER BEARS NO6°02'18"E, HAVING A DELTA OF 05°02'42", A RADIUS OF 725.00 FEET AND A DISTANCE OF 63.84 FEET TO A POINT ON CURVE;

13. N11°05'00"E, A DISTANCE OF 147.40 FEET; 14. N71°41'17"W, A DISTANCE OF 87.90 FEET;

THENCE N19°50'00"E, A DISTANCE OF 225.69 FEET;

THENCE NO5°57'53"E, A DISTANCE OF 241.74 FEET;

THENCE N89°05'30"E, A DISTANCE OF 150.00 FEET; THENCE NO0°54'30"W, A DISTANCE OF 28.43 FEET TO A POINT OF CURVE;

THENCE ON THE ARC OF CURVE TO THE RIGHT HAVING A DELTA OF 83°24'30", A RADIUS OF 55.00 FEET AND A DISTANCE OF 80.07 FEET TO A POINT ON CURVE;

THE SIXTH PRINCIPAL MERIDIAN;

THENCE NO7°30'00"W, A DISTANCE OF 198.00 FEET; THENCE S77°00'00"E, A DISTANCE OF 251.41 FEET; THENCE S00°54'30"E, A DISTANCE OF 2478.00 FEET TO THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 27 TOWNSHIP 12 SOUTH, RANGE 65 WEST OF 10. NO LOT OR INTEREST THEREIN. SHALL BE SOLD, CONVEYED, OR TRANSFERRED WHETHER BY DEED OR BY CONTRACT, NOR

THENCE S87'35'00"W, ON SAID SOUTH LINE OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 27, A DISTANCE OF 639.38 FEET TO THE POINT OF BEGINNING;

CONTAINING A CALCULATED AREA OF 30.114 ACRES.

CONTAINING A TOTAL CALCULATED AREA OF 75.829 ACRES.

A PORTION OF SECTIONS 27 AND 28, Township 12 south, range 65 west of the sixth principal meridian,

EL PASO COUNTY, COLORADO

OWNERS CERTIFICATE: THE UNDERSIGNED, BEING ALL THE OWNERS, MORTGAGEES, BENEFICIARIES OF DEEDS OF TRUST AND HOLDERS OF OTHER INTERESTS IN THE LAND DESCRIBED HEREIN, HAVE LAID OUT, SUBDIVIDED, AND PLATTED SAID LANDS INTO LOTS, TRACTS, STREETS, AND EASEMENTS AS SHOWN HEREON UNDER THE NAME AND SUBDIVISION OF RETREAT AT TIMBERRIDGE FILING NO. 2. ALL PUBLIC IMPROVEMENTS SO PLATTED ARE HEREBY DEDICATED TO PUBLIC USE AND SAID OWNER DOES HEREBY COVENANT AND AGREE THAT THE PUBLIC IMPROVEMENTS WILL BE CONSTRUCTED TO EL PASO COUNTY STANDARDS AND THAT PROPER DRAINAGE AND EROSION CONTROL FOR SAME WILL BE PROVIDED AT SAID OWNER'S EXPENSE, ALL TO THE SATISFACTION OF THE BOARD OF COUNTY COMMISSIONERS OF EL PASO COUNTY, COLORADO. UPON ACCEPTANCE BY RESOLUTION, ALL PUBLIC IMPROVEMENTS SO DEDICATED WILL BECOME MATTERS OF MAINTENANCE BY EL PASO COUNTY, COLORADO. THE UTILITY EASEMENTS SHOWN HEREON ARE HEREBY DEDICATED FOR PUBLIC UTILITIES AND COMMUNICATION SYSTEMS AND OTHER PURPOSES AS SHOWN HEREON. THE ENTITIES RESPONSIBLE FOR PROVIDING THE SERVICES FOR WHICH THE EASEMENTS ARE ESTABLISHED ARE HEREBY GRANTED THE PERPETUAL RIGHT OF INGRESS AND EGRESS FROM AND TO ADJACENT PROPERTIES FOR INSTALLATION, MAINTENANCE. AND REPLACEMENT OF UTILITY LINES AND RELATED FACILITIES. TRACT A IS HEREBY DEDICATED TO EL PASO COUNTY FOR PUBLIC RIGHT OF WAY.

THE AFOREMENTIONED, TIMBERRIDGE DEVELOPMENT GROUP, LLC, A COLORADO LIMITED LIABILITY COMPANY HAS EXECUTED THIS INSTRUMENT THIS __ DAY OF _____, 20__, A.D.

DOUGLAS M. STIMPLE, CEO. ELITE PROPERTIES OF AMERICA, INC. MANAGER OF TIMBERRIDGE DEVELOPMENT GROUP, LLC. A COLORADO LIMITED LIABILITY COMPANY.

STATE OF COLORADO COUNTY OF EL PASO

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS _____ DAY OF _____, 20__, A.D. BY DOUGLAS M. STIMPLE AS CEO, ELITE PROPERTIES OF AMERICA INC. MANAGER OF TIMBERRIDGE DEVELOPMENT GROUP, LLC, A COLORADO LIMITED LIABILITY COMPANY.

WITNESS MY HAND AND OFFICIAL SEAL.

MY COMMISSION EXPIRES: _____ NOTARY PUBLIC

GENERAL NOTES:

1. THE DATE OF PREPARATION IS JANUARY 4, 2021.

2. THE TRACT OF LAND HEREIN PLATTED LIES WITHIN SECTIONS 27 AND 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN.

3. LOTS 2 - 3: UNLESS SHOWN GREATER IN WIDTH, BOTH SIDES OF ALL SIDE LOT LINES ARE HEREBY PLATTED WITH A TEN (10) FOOT EASEMENT FOR PUBLIC UTILITIES, ALL REAR LOT LINES ARE HEREBY PLATTED WITH A TWENTY (20) FOOT EASEMENT FOR PUBLIC UTILITIES AND DRAINAGE PURPOSES, A FIVE (5) FOOT EASEMENT ALONG THE FRONT AND/OR SIDE OF ANY LOT ABUTTING A 60' WIDE RIGHT-OF-WAY FOR PUBLIC UTILITIES AND IMPROVEMENT PURPOSES. AND A TEN (10) FOOT EASEMENT, AS SHOWN ON THIS PLAT, FOR PUBLIC UTILITIES, WITH THE SOLE RESPONSIBILITY FOR MAINTENANCE BEING VESTED WITH THE INDIVIDUAL PROPERTY OWNERS.

LOTS 1, 4 - 12: UNLESS SHOWN GREATER IN WIDTH, BOTH SIDES OF ALL SIDE LOT LINES ARE HEREBY PLATTED WITH A TEN (10) FOOT EASEMENT FOR PUBLIC UTILITIES, ALL REAR LOT LINES ARE HEREBY PLATTED WITH A TEN (10) FOOT EASEMENT FOR PUBLIC UTILITIES AND DRAINAGE PURPOSES, A FIVE (5) FOOT EASEMENT ALONG THE FRONT AND/OR SIDE OF ANY LOT 26. ALL STRUCTURAL FOUNDATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER CURRENTLY LICENSED IN THE STATE ABUTTING A 60' WIDE RIGHT-OF-WAY FOR PUBLIC UTILITIES AND IMPROVEMENT PURPOSES, AND A TEN (10) FOOT EASEMENT. AS SHOWN ON THIS PLAT. FOR PUBLIC UTILITIES. WITH THE SOLE RESPONSIBILITY FOR MAINTENANCE BEING VESTED WITH THE INDIVIDUAL PROPERTY OWNERS.

LOTS 13 - 90: UNLESS SHOWN GREATER IN WIDTH, BOTH SIDES OF ALL SIDE LOT LINES ARE HEREBY PLATTED WITH A FIVE (5) FOOT EASEMENT FOR PUBLIC UTILITIES, ALL REAR LOT LINES ARE HEREBY PLATTED WITH A SEVEN (7) FOOT EASEMENT FOR PUBLIC UTILITIES AND DRAINAGE PURPOSES. A FIVE (5) FOOT EASEMENT ALONG THE FRONT AND/OR SIDE OF ANY LOT ABUTTING A 50' WIDE RIGHT-OF-WAY FOR PUBLIC UTILITIES AND IMPROVEMENT PURPOSES, AND A TEN (10) FOOT EASEMENT, AS SHOWN ON THIS PLAT, FOR PUBLIC UTILITIES, WITH THE SOLE RESPONSIBILITY FOR MAINTENANCE BEING VESTED WITH THE INDIVIDUAL PROPERTY OWNERS.

4. THE FOLLOWING REPORTS HAVE BEEN SUBMITTED AND ARE ON FILE AT THE COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT: SOILS AND GEOLOGICAL STUDY, WATER AVAILABILITY STUDY, DRAINAGE REPORTS, EROSION CONTROL REPORT AND TRAFFIC STUDY IN FILE NO. SP-182.

5. THE TOTAL NUMBER OF LOTS BEING PLATTED IS 90. THE TOTAL NUMBER OF TRACTS BEING PLATTED IS 3.

6. ALL PROPERTY WITHIN THIS SUBDIVISION IS INCLUDED IN THE RETREAT METROPOLITAN DISTRICT NO. 1, AS EVIDENCED BY INSTRUMENTS RECORDED UNDER RECEPTION NO. 220087614 AND 220117578. ALL PROPERTY WITHIN THIS SUBDIVISION IS INCLUDED IN THE RETREAT METROPOLITAN DISTRICT NO. 2, AS EVIDENCED BY INSTRUMENT RECORDED UNDER RECEPTION NO. 31. SOIL AND GEOLOGY CONDITIONS: THE FOLLOWING LOTS HAVE BEEN FOUND TO BE IMPACTED BY GEOLOGIC HAZARDS.

7. DEVELOPER SHALL COMPLY WITH FEDERAL AND STATE LAWS, REGULATIONS, ORDINANCES, REVIEW AND PERMIT REQUIREMENTS, AND OTHER AGENCY REQUIREMENTS, IF ANY, OF A APPLICABLE AGENCIES INCLUDING, BUT NOT LIMITED TO, THE COLORADO DEPARTMENT OF PARKS AND WILDLIFE, COLORADO DEPARTMENT OF TRANSPORTATION, U.S. ARMY CORP. OF ENGINEERS, THE U.S. FISH & WILDLIFE SERVICE AND/OR COLORADO DEPARTMENT OF WILDLIFE REGARDING THE ENDANGERED SPECIES ACT.

8. THE ADDRESSES () EXHIBITED ON THIS PLAT ARE FOR INFORMATIONAL PURPOSES ONLY. THEY ARE NOT THE LEGAL DESCRIPTION AND ARE SUBJECT TO CHANGE.

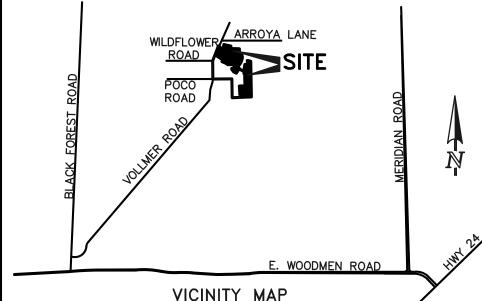
9. FLOODPLAIN STATEMENT: THIS SITE, RETREAT AT TIMBERRIDGE FILING NO. 2, IS PARTIALLY WITHIN A DESIGNATED F.E.M.A. FLOODPLAIN AS DETERMINED 32. THE PRIVATE DETENTION BASIN MAINTENANCE AGREEMENT IS RECORDED UNDER RECEPTION NO. _______. BY THE FLOOD INSURANCE RATE MAP, MAP NUMBER 08041C0535G, DATED DECEMBER 7, 2018. (ZONE X AND AE) BFE'S (BASE FLOOD ELEVATIONS) INDICATED HEREON ARE SHOWN BY GRAPHIC REPRESENTATION FROM THE FEMA GIS MAPS.

SHALL BUILDING PERMITS BE ISSUED, UNTIL AND UNLESS EITHER THE REQUIRED PUBLIC AND COMMON DEVELOPMENT IMPROVEMENTS HAVE BEEN CONSTRUCTED AND COMPLETED AND PRELIMINARILY ACCEPTED IN ACCORDANCE WITH THE SUBDIVISION IMPROVEMENTS AGREEMENT BETWEEN THE APPLICANT/OWNER AND EL PASO COUNTY AS RECORDED UNDER . IN THE OFFICE OF THE CLERK AND RECORDER OF EL PASO COUNTY, COLORADO OR, IN THE ALTERNATIVE, OTHER COLLATERAL IS PROVIDED TO MAKE PROVISION FOR THE COMPLETION OF SAID IMPROVEMENTS IN ACCORDANCE WITH THE EL PASO COUNTY LAND DEVELOPMENT CODE AND ENGINEERING CRITERIA MANUAL. ANY SUCH ALTERNATIVE COLLATERAL MUST BE APPROVED BY THE BOARD OF COUNTY COMMISSIONERS OR, IF PERMITTED BY THE SUBDIVISION IMPROVEMENTS AGREEMENT, BY THE DEPARTMENT EXECUTIVE DIRECTOR AND MEET THE POLICY AND PROCEDURE REQUIREMENTS OF EL PASO COUNTY PRIOR TO THE RELEASE BY THE COUNTY OF ANY LOTS FOR SALE, CONVEYANCE OR TRANSFER. THIS PLAT RESTRICTION MAY BE REMOVED OR RESCINDED BY THE BOARD OF COUNTY COMMISSIONERS OR, IF PERMITTED BY THE SUBDIVISION IMPROVEMENTS AGREEMENT, BY THE PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT EXECUTIVE DIRECTOR UPON EITHER APPROVAL OF AN ALTERNATIVE FORM OF COLLATERAL OR COMPLETION AND PRELIMINARY ACCEPTANCE BY THE EL PASO BOARD OF COUNTY COMMISSIONERS OF ALL IMPROVEMENTS REQUIRED TO BE CONSTRUCTED AND COMPLETED IN ACCORDANCE WITH SAID SUBDIVISION IMPROVEMENTS AGREEMENT. THE PARTIAL RELEASE OF LOTS FOR SALE, CONVEYANCE OR TRANSFER MAY ONLY BE GRANTED IN ACCORDANCE WITH ANY PLANNED PARTIAL RELEASE OF LOTS AUTHORIZED BY THE SUBDIVISION IMPROVEMENTS AGREEMENT.

11. THIS PLAT IS REGULATED BY A P.U.D. DEVELOPMENT PLAN AND P.U.D. DEVELOPMENT GUIDELINES AS RECORDED UNDER RECEPTION NO. 218040692 OF THE RECORDS OF EL PASO COUNTY AND AS AMENDED.

12. MAILBOXES SHALL BE INSTALLED IN ACCORDANCE WITH ALL EL PASO COUNTY DEPARTMENT OF TRANSPORTATION AND UNITED STATES POSTAL SERVICE REGULATIONS.

13. FIRE PROTECTION IS BY BLACK FOREST FIRE PROTECTION DISTRICT



GENERAL NOTES (CONT.):

14. ANY PERSON WHO KNOWINGLY REMOVES, ALTERS OR DEFACES ANY PUBLIC LAND SURVEY MONUMENT OR LAND BOUNDARY MONUMENT OR ACCESSORY, COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO STATE STATUTE 18-4-508, C.R.S.

15. THIS PLAT DOES NOT CONSTITUTE A TITLE SEARCH TO DETERMINE OWNERSHIP OR EASEMENTS OF RECORD. FOR ALL INFORMATION REGARDING EASEMENTS, RIGHT-OF-WAY AND TITLE OF RECORD, CLASSIC CONSULTING ENGINEERS AND SURVEYORS AND THE SURVEYOR OF RECORD RELIED UPON THE TITLE _____, PREPARED BY CAPSTONE COMMITMENT ORDER NUMBER _ TITLE, WITH AN EFFECTIVE DATE OF ______, AT 8:00 A.M.

6. PURSUANT TO RESOLUTION _____ _, APPROVED BY THE BOARD OF DIRECTORS, EL PASO COUNTY PUBLIC IMPROVEMENT DISTRICT AND RECORDED IN THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDED AT RECEPTION NO. THE PARCELS WITHIN THE PLATTED BOUNDARIES OF RETREAT AT TIMBERRIDGE FILING NO. 2 ARE INCLUDED WITHIN THE BOUNDARIES OF THE EL PASO COUNTY PUBLIC IMPROVEMENT DISTRICT NO. 3 AND AS SUCH ARE SUBJECT TO APPLICABLE ROAD IMPACT FEES AND MILL LEVY.

17. A DRIVEWAY PERMIT IS REQUIRED TO BE APPLIED FOR AND APPROVED BY EL PASO COUNTY PRIOR TO THE ESTABLISHMENT OF ANY DRIVEWAY.

18. ALL PROPERTY OWNERS ARE RESPONSIBLE FOR MAINTAINING PROPER STORM WATER DRAINAGE IN AND THROUGH THEIR PROPERTY, PUBLIC DRAINAGE EASEMENTS AS SPECIFICALLY NOTED ON THE PLAT SHALL BE MAINTAINED BY THE INDIVIDUAL LOT OWNERS UNLESS OTHERWISE INDICATED, STRUCTURES, FENCES, MATERIALS OR LANDSCAPING THAT COULD IMPEDE THE FLOW OF RUNOFF SHALL NOT BE PLACED IN DRAINAGE EASEMENTS.

LOTS 27-43 AND 68-74 SHALL ACCEPT DRAINAGE FROM UPSTREAM AREAS AND THE PURCHASERS OF THESE LOTS ARE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF SIDE-LOT DRAINAGE SWALES TO ACCOMMODATE THE STORMWATER RUNOFF.

19. INDIVIDUAL LOT PURCHASERS ARE RESPONSIBLE FOR CONSTRUCTING DRIVEWAYS, INCLUDING NECESSARY DRAINAGE CULVERTS PER LAND DEVELOPMENT CODE SECTION 6.3.3.C.2 AND 6.3.3.C.3.

20. BASIS OF BEARINGS: THE SOUTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE WEST END WHICH IS THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 28, BY A 3-1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI PLS 10376, 2006" AND AT THE EAST END, WHICH IS A 30' WITNESS CORNER TO THE EAST OF THE EAST QUARTER CORNER OF SAID SECTION 28, BY A 3-1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI PLS 10376, 2006", IS ASSUMED TO BEAR S89°08°28"W A DISTANCE OF 1356.68 FEET.

21. TRACT A IS FOR PUBLIC RIGHT OF WAY TO BE OWNED AND MAINTAINED BY EL PASO COUNTY.

22. TRACT B IS FOR DETENTION AND WATER QUALITY AND PUBLIC UTILITIES. TRACT WILL BE OWNED AND MAINTAINED BY THE RETREAT METROPOLITAN DISTRICT NO. 1. OWNERSHIP OF SAID TRACT TO BE CONVEYED BY SEPARATE DOCUMENT.

23. TRACT C IS FOR PUBLIC REGIONAL AND LOCAL TRAILS, EXISTING DRAINAGEWAY, PUBLIC UTILITIES AND OPEN SPACE. TRACT WILL BE OWNED AND MAINTAINED BY EL PASO COUNTY, UPON COMPLETION OF THE REQUIRED IMPROVEMENTS AND COUNTY ACCEPTANCE, THE RETREAT METROPOLITAN DISTRICT NO. 1 SHALL BE RESPONSIBLE FOR THE AESTHETIC MAINTENANCE.

WATER AND SANITARY SEWER: LOTS 1-12 INDIVIDUAL WELL AND SEPTIC SYSTEM WATER AND SANITARY SEWER: LOTS 13-90 STERLING RANCH METROPOLITAN DISTRICT MOUNTAIN VIEW ELECTRIC ASSOCIATION BLACK HILLS ENERGY

25. ALL PROPERTY WITHIN THIS SUBDIVISION IS SUBJECT TO THE DECLARATION OF COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS FOR RETREAT AT TIMBERRIDGE RECORDED OCTOBER 30, 2020, UNDER RECEPTION NO. 220174542 RECORDS OF EL PASO COUNTY, COLORADO.

OF COLORADO.

27. WATER IN THE DENVER BASIN AQUIFERS IS ALLOCATED ON A 100 YEAR AQUIFER LIFE: HOWEVER, FOR EL PASO COUNTY PLANNING PURPOSES, WATER IN THE DENVER BASIN AQUIFERS IS EVALUATED BASED ON A 300 YEAR AQUIFER LIFE. APPLICANTS AND ALL FUTURE OWNERS IN THE SUBDIVISION SHOULD BE AWARE THAT THE ECONOMIC LIFE OF A WATER SUPPLY BASED ON WELLS IN A GIVEN DENVER BASIN AQUIFER MAY BE LESS THAN EITHER THE 100 YEARS OR 300 YEARS USED FOR ALLOCATION INDICATED DUE TO ANTICIPATED WATER LEVEL DECLINES. FURTHERMORE, THE WATER SUPPLY PLAN SHOULD NOT RELY SOLELY UPON NON-RENEWABLE AQUIFERS. ALTERNATIVE RENEWABLE WATER RESOURCES SHOULD BE ACQUIRED AND INCORPORATED IN A PERMANENT WATER SUPPLY PLAN THAT PROVIDES FUTURE GENERATIONS WITH A WATER SUPPLY.

28. THERE SHALL BE NO DIRECT VEHICULAR ACCESS FROM ANY LOT TO VOLLMER ROAD.

29. THE SECONDARY GRAVEL ACCESS ROAD, LYING WITHIN AN EASEMENT DESCRIBED IN A DOCUMENT RECORDED UNDER RECEPTION NO. 220202400, IS NOT COUNTY MAINTAINED. CONSTRUCTION AND MAINTENANCE OBLIGATIONS ARE THE RESPONSIBILITY OF TIMBERRIDGE DEVELOPMENT GROUP, LLC AND THE RETREAT METROPOLITAN DISTRICT NO. 1 PER SAID EASEMENT DOCUMENT.

30. THE UNDERDRAIN CONSTRUCTED BY THE DEVELOPER, ACCORDING TO PLANS APPROVED BY THE STERLING RANCH METROPOLITAN DISTRICT SHALL BE MAINTAINED BY THE RETREAT METROPOLITAN DISTRICT NO. 1.

MITIGATION MEASURES AND A MAP OF THE HAZARD AREA CAN BE FOUND IN THE REPORT SOIL, GEOLOGY, GEOLOGIC HAZARD AND WASTEWATER STUDY, THE RETREAT AT TIMBERRIDGE, VOLLMER ROAD AND ARROYA LANE EL PASO COUNTY, COLORADO BY ENTECH ENGINEERING INC, DATED APRIL 12, 2017, REVISED DECEMBER 1, 2017 IN FILE RETREAT AT TIMBERRIDGE FILE NO. PUD 17-003 AND FILE NO. SP 182 AVAILABLE AT THE EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT: POTENTIAL SEASONAL SHALLOW WATER: LOTS 1-4 AND 8-11, NO BUILDINGS OR SEPTIC SYSTEMS ARE ALLOWED IN

THESE AREAS. IN AREAS OF HIGH GROUNDWATER: DUE TO HIGH GROUNDWATER IN THE AREA, ALL FOUNDATIONS SHALL INCORPORATE AN UNDERGROUND DRAINAGE

33. INDIVIDUAL WELLS FOR LOTS 1-12 ARE THE RESPONSIBILITY OF EACH PROPERTY OWNER. PERMITS FOR INDIVIDUAL DOMESTIC WELLS MUST BE OBTAINED FROM THE STATE ENGINEER WHO BY LAW HAS THE AUTHORITY TO SET CONDITIONS FOR THE ISSUANCE OF THESE PERMITS.

34. WATER RIGHTS AVAILABLE TO SERVE INDIVIDUAL WELLS ON LOTS 1-12 SHALL BE OWNED BY THE RETREAT METROPOLITAN DISTRICT NO. 1 AND NOT THE PROPERTY OWNERS. EACH PROPERTY OWNER MUST OBTAIN A WATER CERTIFICATE FROM THE DISTRICT GRANTING THE RIGHT TO WITHDRAW THE WATER TO SUPPORT WELL PERMIT APPLICATIONS.

ACCEPTANCE CERTIFICATE FOR TRACTS THE DEDICATION OF TRACT B WITH USE STATED IN THE TRACT TABLE. IS HEREBY ACCEPTED FOR OWNERSHIP AND MAINTENANCE BY THE RETREAT METROPOLITAN DISTRICT NO. 2.

PRELIMINARY OF THE RETREAT METROPOLITAN DISTRICT NO. 1. THIS DOCUMENT HAS NOT BEEN STATE OF COLORADO PLAT CHECKED COUNTY OF EL PASO

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS ______ _____, 20__, A.D. BY ____ OF THE RETREAT METROPOLITAN DISTRICT NO. 1.

WITNESS MY HAND AND OFFICIAL SEAL.

MY COMMISSION EXPIRES:

NOTARY PUBLIC

SQUARE FEET PERCENTAGE OWNER MAINTENANCE TRACT A (DEDICATED ROW) EL PASO COUNTY 0.80% EL PASO COUNTY TRACT B (DETENTION AND WATER RETREAT 28,029 RETREAT QUALITY AND PUBLIC UTILITIES) METROPOLITAN METROPOLITAN DISTRICT NO. 1 DISTRICT NO. 1 TRACT C (PUBLIC REGIONAL & 352,326 10.67% EL PASO EL PASO (AESTHETIC

COUNTY MAINTENANCE BY DISTRICT NO. 1 OPEN SPACE) LOTS (90 TOTAL) 2,538,488 76.85% INDIVIDUAL LOT OWNERS COUNTY COUNTY R.O.W. 357,812 10.83% 3,303,126 100.00%

SURVEYOR'S STATEMENT:

COLORADO P.L.S. NO. 30118

ENGINEERS AND SURVEYORS, LLC.

FOR AND ON BEHALF OF CLASSIC CONSULTING.

DRAINAGEWAY, PUBLIC UTILITIES AND

SUMMARY TABLE:

LOCAL TRAILS, EXISTING

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

I ATTEST THE ABOVE ON THIS ______ DAY OF _____, 20__. DOUGLAS P. REINELT, PROFESSIONAL LAND SURVEYOR

NOTICE:

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

BOARD OF COUNTY COMMISSIONERS CERTIFICATE

CHAIR, BOARD OF COUNTY COMMISSIONERS

THIS PLAT FOR RETREAT AT TIMBERRIDGE FILING NO. 2 WAS APPROVED FOR FILING BY THE EL PASO COUNTY, COLORADO BOARD OF COUNTY COMMISSIONERS ON THIS___ DAY OF ______, 20___, SUBJECT TO ANY NOTES SPECIFIED HEREON AND ANY CONDITIONS INCLUDED IN THE RESOLUTION OF APPROVAL. THE DEDICATIONS OF LAND TO THE PUBLIC STREETS. PUBLIC EASEMENTS AND TRACTS A AND C ARE ACCEPTED. BUT PUBLIC IMPROVEMENTS THEREON WILL NOT BECOME MAINTENANCE RESPONSIBILITY OF EL PASO COUNTY UNTIL PRELIMINARY ACCEPTANCE OF THE PUBLIC IMPROVEMENTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE AND ENGINEERING CRITERIA MANUAL. AND THE SUBDIVISION IMPROVEMENTS AGREEMENT.

| EXECUTIVE DIRECTOR OF PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT | DATE |
|---|------------------|
| COUNTY ASSESSOR | DATE |
| CLERK AND RECORDER: | |
| STATE OF COLORADO)) ss COUNTY OF EL PASO) I HEREBY CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECOR O'CLOCK,M. THISDAY OF, 20, A.D., AND AT RECEPTION NOOF THE RECORDS COLORADO. CHUCK BROERMAN, RECORDER | IS DULY RECORDED |
| BY: DEPUTY | |
| DRAINAGE: <u>SAND CREEK</u> | |
| BRIDGE FEES: | |
| URBAN PARK: | |
| REGIONAL PARK: | |
| | |

TIMBERRIDGE DEVELOPMENT GROUP, LLC 2138 FLYING HORSE CLUB DRIVE COLORADO SPRINGS, CO 80921

RETREAT AT TIMBERRIDGE FILING NO. 2 JOB NO. 1185.20 **JANUARY 4, 2021** SHEET 1 OF 7

REVISION DATE CONSULTING

<u>ACADEMY SCHOOL DISTRICT NO. 20</u>

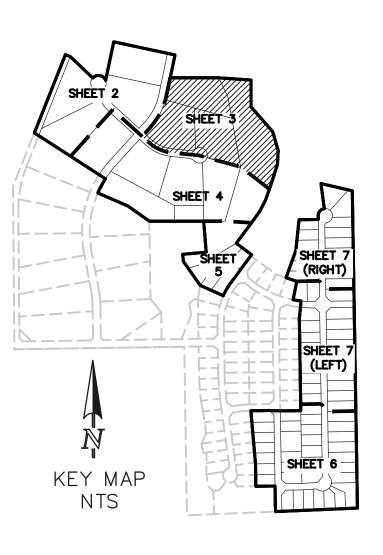
SCHOOL FEE: FALCON SCHOOL DISTRICT NO. 49



(719)785-0790 (719)785-0799 (Fax)

DATE

(719)785-0799 (Fax)



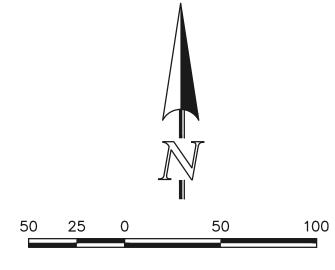
LEGEND

(R) RADIAL BEARING

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

(XXXX) ADDRESS

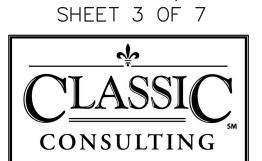
7174 BASE FLOOD ELEVATION



SCALE: 1" = 50'U.S. SURVEY FEET

PRELIMINARY THIS DOCUMENT HAS NOT BEEN
PLAT CHECKED

> RETREAT AT TIMBERRIDGE FILING NO. 2 JOB NO. 1185.20 JANUARY 4, 2021

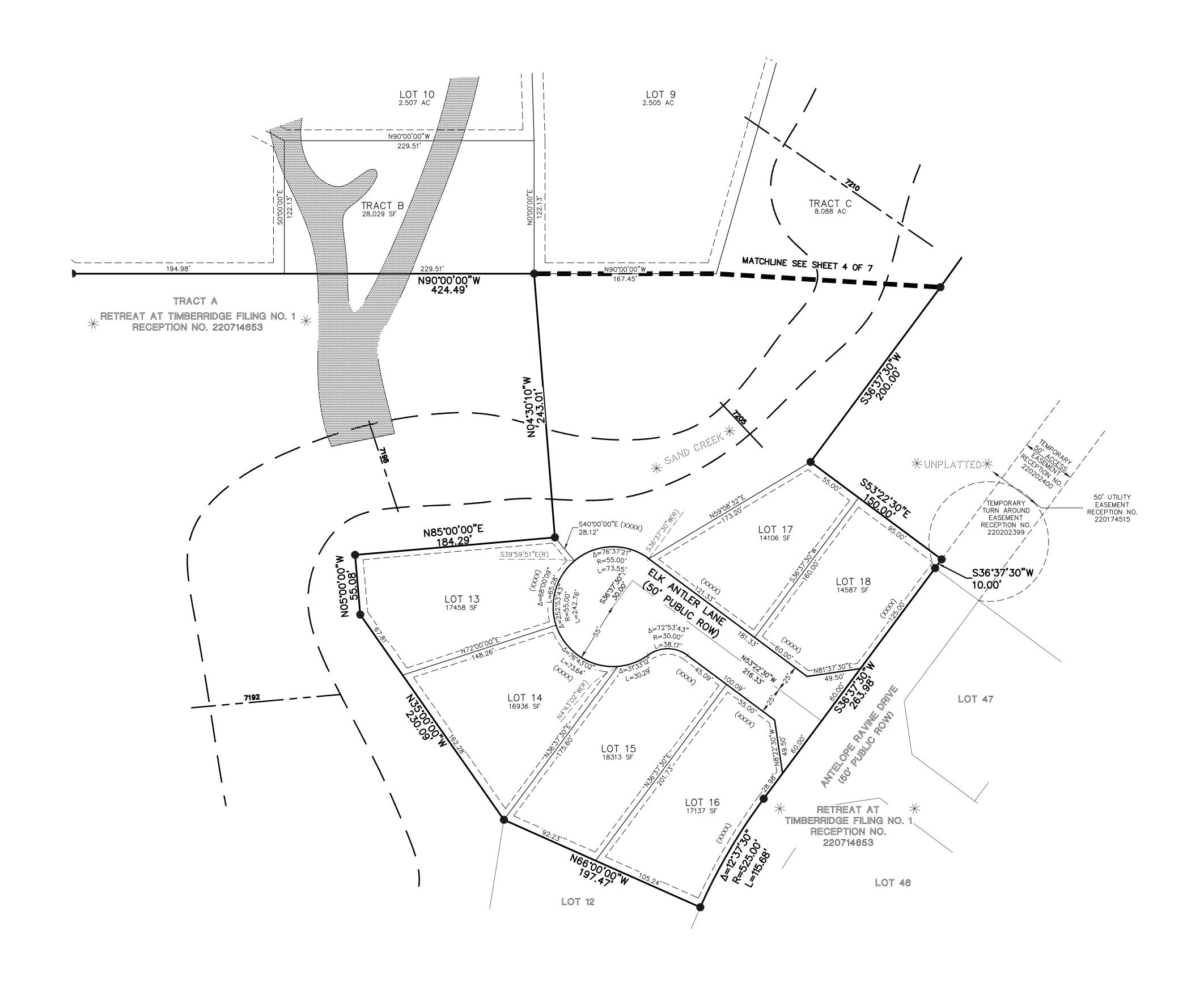


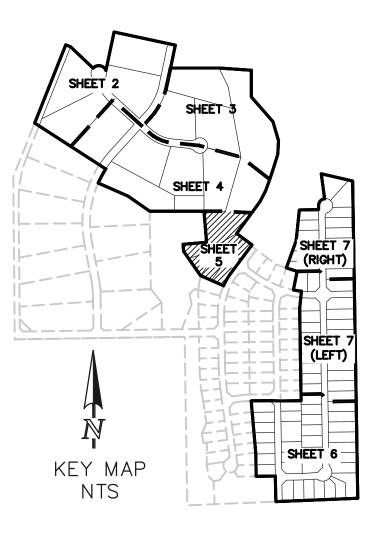
619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903

(719)785-0790 (719)785-0799 (Fax)

RETREAT AT TIMBERRIDGE FILING NO. 2

A PORTION OF SECTIONS 27 AND 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO





LEGEND

(R) RADIAL BEAR
AC ACRES

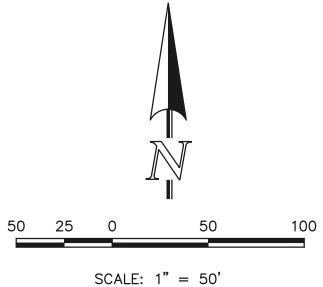
SF SQUARE F

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

NOT PART OF THIS SUBDIVISION

(XXXX) ADDRESS

______BASE FLOOD ELEVATION



U.S. SURVEY FEET

PRELIMINARY

THIS DOCUMENT HAS NOT BEEN PLAT CHECKED

RETREAT AT TIMBERRIDGE FILING NO. 2 JOB NO. 1185.20 JANUARY 4, 2021 SHEET 5 OF 7



619 N. Cascade Avenue, Suite 200 (719)785-0790 Colorado Springs, Colorado 80903 (719)785-0799 (Fax)

RETREAT AT TIMBERRIDGE FILING NO. 2 A PORTION OF SECTIONS 27 AND 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO \divideontimes RETREAT AT TIMBERRIDGE FILING NO. 1 \divideontimes RECEPTION NO. 220714653 POCO ROAD C-E 1/16 CORNER SEC. 28, T12S, R65W _ FOUND 3-1/4" ALUMINUM CAP STAMPED "ESI PLS 10376, 2006" FLUSH WITH GROUND (60' PUBLIC ROW) BASIS OF BEARINGS 30' WITNESS CORNER E 1/4 CORNER SEC. 28, T12S, R65W FOUND 3-1/4" ALUMINUM CAP STAMPED "ESI PLS 10376, 2006" 0.1' ABOVE GROUND N89'08'28"E 1326.68' *UNPLATTED* LOT 82 12,800 SF N00°54'30"W 720.00 RABBIT TAIL PLACE LOT 61 LOT 46 17,600 SF (50' PUBLIC ROW) N89'05'30"E S88°03'59"E N89°05'30"E LOT 81 12,800 SF MATCHLINE SEE SHEET 7 OF 7 160.00' 145,17 - — — — — S89°05'30"W — — — · LOT 47 17,600 SF LOT 68 12,800 SF LOT 67 15,309 SF LOT 35 LOT 80 12,800 SF SHEET 6 - — — — — — — — N89°05'30"E- — — — — — — — KEY MAP — — — — — S89°05'30"W — — — — — + LOT 48 17,600 SF ________160.00'———— LOT 69 12,800 SF N00°54'30"W LOT 66 13,658 SF LOT 34 _ 1289.58' LOT 79 12,800 SF ______N89°05'30"E———— — — — — -S89°05'30"W- — — — — __ _ _ _ _ _ _ 160.00 _ _ _ _ _ _ -_ — — — — S89°05'30"W — — — — LOT 70 LOT 49 17,600 SF LOT 65 LOT 78 13,600 SF LOT 32 LOT 50 17,600 SF OWL LOT 64 12,727 SF RETREAT AT LEGEND $^{ imes}$ timberridge filing $^{ imes}$ LOT 77 ---_ <u>_ _ _ _ _ _ _ _ 160.00 _ _ _ _ _ _ _ _ _ </u> NO. 1 (R) radial bearing — RECEPTION NO. **→**25'**→** 25'**→** AC ACRES 220714653 — — — — — S89°05'30"W — — — — → -SF SQUARE FEET LOT 63 13,013 SF LOT 31 1-1/2" ALUMINUM SURVEYORS CAP STAMPED "CCES LLC PLS 30118" TO BE SET FLUSH W/GROUND UNLESS OTHERWISE NOTED NOT PART OF THIS SUBDIVISION — — — — №9°05'30"E— — — — — — + - - - - - - - - N89°05'30"E- - - - - - - - -————-S89°05'30"W-———— 5' PUBLIC UTILITY AND (XXXX) ADDRESS _______ 14,400 SF IMPROVEMENT EASEMENT 5' PUBLIC AS NOTED RECOVERED EASEMENT 12,800 SF ≠ --- S89°05'30"W --- ---LOT 52 17,600 SF LOT 62 12,750 SF 10' PUBLIC LOT 30 UTILITY EASEMENT └──^{11.97}′──────────────────────── SCALE: 1" = 50'- — — -S89°05'30"W- — — — LOT 75 16,871 SF U.S. SURVEY FEET LOT 74 13,783 SF LOT 53 16,715 SF LOT 61 13,500 SF LOT 29 TL=22.33'_ PRELIMINARY OWL PERCH LOOP Δ=3°00'00" Δ=18°36'56" R=1000.00' THIS DOCUMENT HAS NOT BEEN S89°05'30"W 150.00' L=22.74' L=52.36(50' PUBLIC ROW) PLAT CHECKED LOT 54 24226 SF __ L=38.72' (XXXX) L=22.74'L=45.71' (XXXX) Δ=0°50'08" L=14.95' RETREAT AT TIMBERRIDGE FILING NO. 2 JOB NO. 1185.20 LOT 59 12,888 SF LOT 58 12,928 SF LOT 57 12,246 SF LOT 56 12,596 SF LOT 55 13,097 SF JANUARY 4, 2021 Δ=1°30'30" SHEET 6 OF 7 TRACT D R=1025.00'¬ L=26.98'

UNPLATTED

POINT OF

BEGINNING

PARCEL B

COMMENCING POINT OF

N02°25'00"W_

_S2*25'00"E

N:\118520\DRAWINGS\SURVEY\PLAT\118520—P2—P7.dwg, 3/12/2021 2:35:33 F

PCDD FILE NO.:

CONSULTING

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

(719)785-0790
(719)785-0799 (Fax)

7' PUBLIC UTILITY AND DRAINAGE EASEMENT

Appendix C

Appendix C

Update February 28, 2021

Sterling Ranch Metropolitan District Comprehensive Water Supply Inventory Current Legal Supply

Annual Annual

| Land | Determination/ Decree | Tributary Status | Volume | Allocation 100 Year | Allocation 300 Year | Well Locations | Notes | Sand Thickness | Specific Yield |
|---|------------------------------------|---------------------|---------------|------------------------|-------------------------|--|---|-------------------|-------------------|
| Formation/Aquifer | Decree | Status | Acre-Feet | A-F/Year | A-F/Year | Locations | | Tillekiless | rieiu |
| | | urrently Avai | | | er Legal Sourc | | | | |
| 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, reduced to 1.44 acres | 255 | 15% |
| Arapahoe | 86-CW-18 | NT | 57500 | 575.00 | 191.67 371.47 | KA-1 - KA-4 | Under 1410 acres | 240 | 17% |
| Off site Bar-X Ground Water Sources (Note 3) | | | | | | | | | |
| ortion BarX Purchased | 02 CW 010 | | | | ter Legal Sour | ces (Bar-X) | CI 1/D P: 1 | 200 | 1.50/ |
| Laramie Fox Hills | 93-CW-018 (85CW-445) | NT | 42,700 | 427.00 | 142.33 | | Shamrock/Bar-x Rights | 200 | 15% |
| Arapahoe | 93-CW-18 | NT | 4800 | 48.00 | 16.00 | | Shamrock/Bar-x Rights | Quit Claims | September 20 |
| Denver | (85CW-445) 93-CW-18 | NT | 6100 | 61.00 | 20.33 | | Shamrock/Bar-x Rights | | |
| | (85CW-445) | | | | 178.67 | | Possible to Post Pumping Depletions a | Sterling Ranch (| 20 CW 3059) |
| Dawson | 93-CW-18 (85CW-445) | NNT needs aug | 5600 | 56.00 | 0.00 | | Needs Future Augmentation | | |
| | , | | | | • | | | • | |
| | | Currently Av | ailable On-Si | ite Retreat Wa | ter Legal Sou | rces (Note 1) | | | |
| Laramie Fox Hills .FH (Retained Water by predescer | 17CW3002 | NT NT | 6,440 -612 | | | | Under 225.97 acres | 190 | 15% |
| LFH (Relinquishment) | 18CW3002 | NT | -2,796 | | | | PPD Augmenting 29 wells | | |
| | | | 3,032 | 30.32 | 10.11 | | | | |
| Arapahoe | 17CW3002 | NT | 9,796 | 97.96 | 32.65 | | Under 225.97 acres | 255 | 17% |
| Legal Supply: Phase 3, Phase 4 (excluding Lots 39-41) and Phase 6 | | | 12,828 | 128.28 | 42.76 | | | | |
| Augmentation (Dawson NNT) | 18CW3002 | Aug | 2,796 | 27.96 | 9.32 | | pumping | | |
| | | | | | | 29 Single Family Wells [Phase 2 | | | |
| (excluding Lots 11-12), | | | | | 9,32 | (excluding Lots 11-12); Lots 39, 40 & 41 of Phase 4; & 5] | | | |
| Augmentation (Dawson NNT) | 16CW3095 | Aug | 1567.5 | 15.68 | 5.23 | | Replace actual depletions | | |
| | | | | | | | | | |
| Legal Supply Phase 1 | | | | | 5.23 | 10 Single Family Wells (Phase | | | |
| | | Curr | ently Availal | ble Off-Site (| Ground Wate | r Legal Sources | | | |
| Augmentation (Dawson NNT) | 18CW3005 | Aug | 240.0 | 2.40 | 0.80 | (Phase 2 - Lots 11 &12) | pumping | | |
| 2) | | | 240.0 | 2.4 | 0.8 | | | | |
| Note 1. | The water listed in the shaded | area will be | | | | ot included in the Total Availab | le for the Central System | | |
| otal Commant Assallable | 200 Vaan Watan Samul | | | | 502.00 | For Sterling Ranch inc | aladia a Datas at Cauta | -14 | |
| otal Current Available (| 500-Year water Suppi | . y | | | 592.89 | For Sterning Kanch inc | ciuding Retreat Centr | ai system | |
| | | | | | | ources (Note 2) | | | |
| Laramie Fox Hills | 20CW 3059 (Pending) | NT | 2780 | 27.80 | 9.27 | | 97.54 acres SR Quarry (Note 5) | 190 | |
| Arapahoe | 20CW 3059 (Pending) | NNT | 4320 | 43.20 | 14.40 | Augmented via Same Case | 97.54 acres SR Quarry (Note 5) | 260.5 | |
| Denver | 20CW 3059 (Pending) | NNT | 4895 | 48.95 | 16.32 | Augmented via Same Case | 97.54 acres SR Quarry (Note 5) | 295.2 | |
| Denver | 08CW113 Aug 20CW 3059 (Pending) | NNT | 72893 | 728.93 | 242.98 | Augmented via Pending Case | Sterling Ranch 1410 acres | | |
| | | | 60 | 0.60 | 0.20 | | Sterling Ranch 41.44 reduced | | |
| Arapahoe | 08CW113 Aug 20CW 3059 (Pending) | NNT | 00 | | | Augmented via Pending Case | to 1.44 acres | | |
| Arapahoe | | NNT | 00 | | 283.16 | Augmented via Pending Case | to 1.44 acres | | |
| Arapahoe otal If/WhenPending Water Case | Aug 20CW 3059 (Pending) | NNT | 00 | | | Augmented via Pending Case For Sterling Ranch including F | | | |

Sterling Ranch Metropolitan District Comprehensive Water Supply Inventory Contingent Supplies

| | | | | <u>Co</u> | ntingent Supp | <u>ties</u> | | | |
|-----------------------|------------------------|-----------------------|------------------|-------------------|------------------|----------------------------|--|-------------------|--------------|
| | Finding/ | | | Annual | Annual | Approved | | S | aturated |
| Land | Determination/ | Tributary | Volume | Allocation | Allocation | Well | Notes | Sand | Specific |
| Formation/Aquifer | Decree | Status | | 100 Year | 300 Year | Locaions | | Thickness | Yield |
| | | | Acre-Feet | A-F/Year | A-F/Year | | | | |
| | | | | d On-site Sterli | ng Ground Wate | r Sources | | | |
| Dawson | 08CW113 | NNT | 39,247 | 392.5 | 130.83 | | Replace actual depletions | 145.8 | 20% |
| Total Additional Cont | ingent Supply Ste | rling (needs augm | entation) | | 0.0 | | | | |
| | | | | Off site Barry | C | (No. 4) | | | |
| | | | | | Ground Water S | r Legal Sources (Bar-X) | | | |
| | | | ситени | y Ownen Off-Si | ie Sterling Wate | Legui Sources (Bur-A) | | | |
| Dontion nomeining on | dan aantuu at | | | | | | | | |
| Portion remaining und | | | | | | | | | |
| Laramie Fox Hills | 93-CW-018 | NT | 12,500 | 125.00 | 41.67 | | Shamrock/Bar-x Rights | 200 | 15% |
| | | | -12,500 | -125.00 | -41.67 | Set aside for augmentation | n at Bar-X | | |
| Amanahaa | 02 CW 019 | NIT | 74250 | 729.00 | 246.00 | | Chamma als/Dan vs Dis 1-1- | 260 | 170/ |
| Arapahoe Denver | 93-CW-018 93-CW-018 | NT NT | 74250 119900 | 738.00 1306.33 | 246.00 435.44 | | Shamrock/Bar-x Rights Shamrock/Bar-x Rights | 260 435 | 17% 17% |
| Deliver | 75-C W-018 | 141 | 117700 | 1300.33 | 433.44 | 681.44 | Shanifock/Bar-x Rights | 433 | 1//0 |
| | | | | | | 104.49 | Net Set Aside for Sterling Ranch Post P | umning Depletions | (20 CW 3059) |
| Dawson | 93-CW-018 | NNT | 149499 | 1494.99 | 498.33 | 104.45 | Need Augmentation Plan | 490 | 20% |
| Dawson | 75-C W-016 | 11111 | 194,150 | 14,74.55 | 476.55 | I | rect Augmentation I lan | 470 | 2070 |
| Total Additional Cont | ingent Supply Bar | r-X (without augm | | | | 576.95 | | | |
| | g | (| | | | 21302 | | | |
| | | <u>Continge</u> | ent On-Site The | Ranch (Elkhor | n) Water Legal | Sources WITHIN UBS B | <u>OUNDARIES</u> | | |
| | | | 17,000 | 170.00 | 56.67 | | 646.029 acres | | |
| Laramie Fox Hills NT | Determination | receipt 471559-D | | | | | | | |
| Arapahoe NT | under Section 37- | | 23600 | 236.00 | 78.67 | | 646.029 acres | | |
| | 90-107(7) | recepit 471559-C | | | | | | | |
| Denver NNT | | recepit 471559-B | 32900 | 329.00 | 109.67 | | 646.029 acres | | |
| | | | | | 245.00 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | Conting | gent Off site Mo | Cune Ground | Water Sources (1 | Note 5) | | | |
| Laramie Fox Hills | 1689-BD | NT | 26,300 | 263.00 | 87.67 | | 900.52 acres | | |
| | | | , | | | | | | |
| Arapahoe | 1690-BD | NT | 39800 | 398.00 | 132.67 | | 900.52 acres | | |
| 1 | | | | | | | | | |
| Denver | 1691-BD | NT | 52800 | 528.00 | 176.00 | | 900.52 acres | | |
| | | | | | | | | | |
| | | | -1500.00 | -50.00 | -5.00 | Retained Denver Formation | Water | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Lower Dawson | 1662 BD | NNT | 81950.00 | 819.50 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Total Contingent Supp | oly McCune (with | out augmentation | i) | | 391.33 | | | | |
| | ` | | ĺ | | | | | | |
| | | | | | | | | | |

- Note 2 Pending Case 20 CW 3059 quantifies NT and NNT groundwater under what is known as the SR Quarry which has been acquired. Additionally, 20 CW 3059 provides an augmentation plan for the NNT Arapahoe and Denver formation water under Sterling Ranch. The post pumping depletions are satisfied by NT water off site from Bar X Ranch. Current depletions

 For both the Sterling Ranch and SR Quarry are satisfied by on LIRF credits supportted by NT water applied at Sterling Ranch. Additionally, certain on-site ponds are augmented by excess LIRF credits.
- Note 3 This water is NT water owned by Sterling Ranch and is available to be legally used on the Sterling Ranch Site. This water is projected to be dedicated as Augmentation Depletions for NNT Water under Pending case 20 CW 3059. If/when Pending Case 20 CW 3059 is approved in whole or part, this inventory will be adjusted to add any approved augmented NNT water and and any and/all augmentation supply, will be shown strictly as dedication to depletions. Until such a time, this water will be shown as legally available for Sterling Ranch.
- Note 4 The sources listed in this segment are under contract to Sterling Ranch. As the Contract "take-down" proceeds, these supplies will be become the property of Sterling and can be made available for direct use at Sterling Ranch or as additional augmentation water at Sterling Ranch.
- Note 5 This water is also termed the McCune water. The sources listed in this table are under contract to Sterling.
- Note 5 SR Quarry Water obtained via Deed 5-18. Application for Decree is 20 CW 3059

Water within Sterling Service Areas

Elkhorn or The Ranch

Retreat

Sterling Ranch and SR Quarry

Retreat Individual Wells (not included in overall supply)

JDS-Hydro Consultants, Inc

Appendix D

Form No. **GWS-25**

OFFICE OF THE STATE ENGINEER COLORADO DIVISION OF WATER RESOURCES 818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

(303) 866-3581

LIC

| WELL PER | MIT NUMBER | 77785 | - <u>F</u> | <u>-</u> |
|----------|------------|------------|------------|----------|
| DIV. 2 | WD 10 | DES. BASIN | MD | |

EL PASO COUNTY

1/4 NW

APPLICANT

MORLEY-BENTLEY INVESTMENTS LLC 20 BOULDER CRESCENT ST COLORADO SPRINGS, CO 80903Township 12 S Range 65 W Sixth P.M.

APPROVED WELL LOCATION

DISTANCES FROM SECTION LINES 324 Ft. from North Section Line

2632 Ft. from West Section Line

1/4

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting:

NE

Northing:

Section 27

(719) 491-3024

PERMIT TO CONSTRUCT A WELL

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

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has 2) been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- Approved pursuant to CRS 37-90-137(4) and the decree granted in case no. 86CW19 Division 2 Water Court. The operation of this well is 3) subject to the terms and conditions of said decree.
- 4) The use of ground water from this well is limited to municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, augmentation, livestock watering and agricultural uses.
- The pumping rate of this well shall not exceed 150 GPM. 5)
- 6) The average annual amount of ground water to be appropriated shall not exceed 539 acre-feet.
- 7) Production is limited to the Laramie-Fox Hills aquifer which is located 2,345 feet below land surface and extends to a depth of 2,630 feet. Plain casing must be installed and grouted to prevent the withdrawal of ground water from other aquifers and the movement of ground water between aquifers.
- The entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules prior to 8) installing casing.
- 9) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.
- A totalizing flow meter must be installed on this well and maintained in good working order. Permanent records of all diversions must be 10) maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- This well shall be constructed at least 600 feet from any existing well, completed in the same aquifer, that is not owned by the applicant. 11)
- 12) This well shall be constructed not more than 200 feet from the location specified on this permit.
- Pursuant to CRS 37-90-137(9)(b) and the Denver Basin Rules, no more than 98% of the nontributary ground water withdrawn annually shall 13) be consumed and the well owner shall demonstrate to the reasonable satisfaction of the State Engineer that no more than 98% of the water withdrawn will be consumed.
- 14) This well is subject to administration by the Division Engineer in accordance with applicable decrees, statutes, rules, and regulations. NOTE: The ability of this well to withdraw its authorized amount of water from this non-renewable aquifer may be less than the 100 years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.

NOTE: To ensure a maximum productive life of this well, perforated casing should be set through the entire producing interval of the approved zone or aquifer indicated above.

NOTE: This permit will expire on the expiration date unless the well is constructed and a pump is installed by that date. A Well Construction and Test Report (GWS-31) and Pump Installation and Test Report (GWS-32) must be submitted to the Division of Water Resources to verify the well has been constructed and the pump has been installed. A one-time extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: http://www.water.state.co.us

APPROVED

Receipt No. 3662756

IDC

State Engineer

DATE ISSUED 12-19-2013 EXPIRATION DATE

Du aui Cir

12-19-2014

Form No. **GWS-25**

OFFICE OF THE STATE ENGINEER COLORADO DIVISION OF WATER RESOURCES 818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

(303) 866-3581

LIC

| WELL PERM | IT NUMBER | 77786 | - F | |
|-----------|-----------|------------|-----|--|
| DIV. 2 | WD 10 | DES. BASIN | MD | |

APPLICANT

MORLEY-BENTLEY INVESTMENTS LLC 20 BOULDER CRESCENT ST COLORADO SPRINGS, CO 80903APPROVED WELL LOCATION

EL PASO COUNTY

NE 1/4 NW 1/4 Section 27

Township 12 S Range 65 W Sixth P.M. DISTANCES FROM SECTION LINES

304 Ft. from North

Section Line

2632 Ft. from West

Section Line

(719) 491-3024

UTM COORDINATES (Meters, Zone: 13, NAD83) Easting: Northing:

PERMIT TO CONSTRUCT A WELL

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

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has 2) been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- Approved pursuant to CRS 37-90-137(4) and the decree granted in case no. 86CW18 Division 2 Water Court. The operation of this well is 3) subject to the terms and conditions of said decree.
- 4) The use of ground water from this well is limited to municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, augmentation, livestock watering and agricultural uses.
- 5) The pumping rate of this well shall not exceed 150 GPM.
- 6) The average annual amount of ground water to be appropriated shall not exceed 575 acre-feet.
- 7) Production is limited to the Arapahoe aquifer which is located 1,585 feet below land surface and extends to a depth of 2,070 feet. Plain casing must be installed and grouted to prevent the withdrawal of ground water from other aquifers and the movement of ground water between aquifers
- 8) The entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules prior to installing casing.
- 9) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.
- A totalizing flow meter must be installed on this well and maintained in good working order. Permanent records of all diversions must be maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- 11) This well shall be constructed at least 600 feet from any existing well, completed in the same aquifer, that is not owned by the applicant.
- 12) This well shall be constructed not more than 200 feet from the location specified on this permit.
- 13) Pursuant to CRS 37-90-137(9)(b) and the Denver Basin Rules, no more than 98% of the nontributary ground water withdrawn annually shall be consumed and the well owner shall demonstrate to the reasonable satisfaction of the State Engineer that no more than 98% of the water withdrawn will be consumed.
- 14) This well is subject to administration by the Division Engineer in accordance with applicable decrees, statutes, rules, and regulations. NOTE: The ability of this well to withdraw its authorized amount of water from this non-renewable aguifer may be less than the 100 years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.

NOTE: To ensure a maximum productive life of this well, perforated casing should be set through the entire producing interval of the approved zone or aquifer indicated above.

NOTE: This permit will expire on the expiration date unless the well is constructed and a pump is installed by that date. A Well Construction and Test Report (GWS-31) and Pump Installation and Test Report (GWS-32) must be submitted to the Division of Water Resources to verify the well has been constructed and the pump has been installed. A one-time extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: http://www.water.state.co.us

APPROVED

Receipt No. 3662757

IDC

State Engineer

DATE ISSUED

12-19-2013

Un COLLE COM

EXPIRATION DATE

12-19-2014

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

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

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

▲ COURT USE ONLY ▲

Case No.: 17CW3002

TD1000 N

DISTRICT COURT, WATER DIVISION 2, COLORADO

Court Address: 501 North Elizabeth Street,

Suite 116

Pueblo, CO 81003

CONCERNING THE APPLICATION FOR WATER

RIGHTS OF:

ARROYA INVESTMENTS, LLC, JACOB DECOTO, MARVIN ORNES and TERRI WAHLBERG

IN EL PASO COUNTY

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

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

GENERAL FINDINGS OF FACT

- 1. The applicants in this case are Arroya Investments, LLC ("Arroya"), Jacob Decoto ("Decoto"), Marvin Ornes ("Ornes") and Terri Wahlberg ("Wahlberg") (collectively, "Applicants"). Applicants are, collectively, the owners of the four separately owned parcels of land totaling approximately 335.59 acres under which the groundwater sought to be adjudicated herein are located, and are likewise the owners of the place of use where the water is anticipated to be put to beneficial use.
- 2. The Applicants filed this Application with the Water Court for Water Division 2 on January 31, 2017. The Application was referred to the Water Referee by order of the Court dated February 2, 2017.
- 3. The time for filing statements of opposition to the Application expired on the last day of March, 2017, and a no statements of opposition were timely filed.
- 4. On February 2, 2017, the Division 2 Water Court ordered that publication occur in the *Daily Transcript* within El Paso County.
- 5. The Clerk of this Court has caused publication of the Application filed in this matter as provided by statute and the publication costs have been paid. On February 15, 2017, proof of publication in the *Daily Transcript* was filed with the Court. All notices of the Application have been given in the manner required by law.

- 6. Pursuant to C.R.S. §37-92-302(2), the Office of the State Engineer has filed Determination of Facts for each aquifer with this Court dated March 14, 2017.
- 7. Pursuant to C.R.S. §37-92-302(4), the office of the Division Engineer for Water Division 2 filed its Consultation Report dated March 29, 2017, with the Court. The Consultation Report has been considered by the Water Referee in the entry of this Ruling.
- 8. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties whether they have appeared or not. The land and water rights involved in this case are not within a designated groundwater basin.

GROUNDWATER RIGHTS

- 9. The Applicants requested the adjudication and quantification all Denver Basin groundwater in each aquifer underlying the four (4) specifically described parcels of land owned by each of the Applicants, respectively, as described herein. No plan for augmentation for the use of the not-nontributary groundwater was sought or is decreed herein. The Applicants shall construct such wells as necessary for withdrawal of Applicants' full entitlements of water supplies decreed herein. The following findings are made with respect to such underground water rights:
- A. <u>Property Description</u>. All wells to all aquifers will be located on the Applicants respective properties. Such Properties are more specifically described as follows:
- i. <u>Arroya Parcel</u>. The "Arroya Parcel" is an approximately 226 acre parcel located in the SE1/4 SE1/4 of Section 21, the W1/2 SW1/4 of Section 22, the E1/2 NE1/4 of Section 28, the W1/2 NW1/4 and the NW1/4 SW1/4 of Section 27, all in Township 21 South, Range 65 West of the 6th P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit A**, and depicted on attached **Exhibit E**. The Arroya Parcel is owned by Applicant Arroya Investments, LLC.
- ii. <u>West Parcel No. 1</u>. The "West Parcel No. 1" is an approximately 36.01 acre parcel located in the SW1/4 SE1/4 and the SE1/4 SE1/4 of Section 21, and the NE1/4 NE1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit B**, and depicted on attached **Exhibit E**. The West Parcel No. 1 is owned by Applicant Jacob Decoto.
- iii. <u>West Parcel No. 2</u>. The "West Parcel No. 2" is an approximately 36.03 acre parcel located in the SW1/4 SE1/4 and the SE1/4 SE1/4 of Section 21, Township 12 South, Range 65 West of the 6th P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit C**, and depicted on attached **Exhibit E**. The West Parcel No. 2 is owned by Applicant Jacob Decoto.

- iv. <u>West Parcel No. 3</u>. The "West Parcel No. 3" is an approximately 37.58 acre parcel located in the NW1/4 SE1/4 and the NE1/4 SE1/4 of Section 21, Township 12 South, Range 65 West of the 6th P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit D**, and depicted on attached **Exhibit E**. The West Parcel No. 3 is owned by Applicants Marvin Ornes and Terri Wahlberg.
- B. Existing Wells. There is currently one (1) existing well constructed to the Dawson aquifer on West Parcel No. 2 (Decoto): DWR Permit No. 4554, an exempt domestic well. DWR Permit No. 4554 is an exempt structure; water from the Dawson aquifer sufficient to allow for such continued exempt use has been excluded from the quantification herein. Two additional exempt domestic wells have been permitted since the filing of the application in this matter, DWR Permit No. 304551 on West Parcel No. 1 (Decoto), and DWR Permit No. 304498 on West Parcel No. 3 (Ornes/Wahlberg), and are excluded from quantification herein.
- C. <u>Additional Wells</u>. Applicants anticipated additional wells will be constructed on each the Applicants' respective properties. To the extent any additional wells may be constructed to the not-nontributary Dawson and/or Denver aquifer(s), such wells may be constructed only pursuant to a subsequent decree providing an approved plan for augmentation, or as exempt well structures pursuant to C.R.S. §37-92-602.
- 10. Of the statutorily described Denver Basin aquifers, the Dawson, Denver, Arapahoe, and Laramie-Fox Hills aquifers all exist beneath the Applicants' respective properties. The Dawson and Denver aquifers contain not-nontributary water, while the water of the Arapahoe and Laramie-Fox Hills aquifers underlying the Applicants' respective properties is nontributary. The quantity of water in the Denver Basin aquifers exclusive of artificial recharge underlying each of the Applicants' respective properties as allocated on a pro-rata per acre basis from the amounts described in the State Engineer's Determination of Facts, is as follows:

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

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

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

| Aquifer | Sand Thickness (Feet) | Total Ground Water Storage (Acre Feet) | Annual Average Withdrawal – 100 Years (Acre Feet) |
|---------------------------|-----------------------------|---|--|
| Dawson (NNT) | 270 | 1,944.4 | 16.44 ¹ |
| Denver (NNT) | 310 | 1,897.7 | 18.98 |
| Arapahoe (NT) | 255 | 1,561 | 15.61 |
| Laramie-Fox Hills (NT) | 190 | 1,026.2 | 10.26 |

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

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

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

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

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

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

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

- 11. Pursuant to §37-90-137(9)(c.5)(I), C.R.S., the augmentation requirements for wells in the Dawson aquifer require the replacement to the effected stream systems of actual stream depletions on an annual basis, to the extent necessary to prevent injurious effect, based upon actual aquifer conditions. The augmentation requirements for wells to the Denver aquifer are for 4% of pumping. Applicants shall not be entitled to construct a non-exempt well or use water from the not-nontributary Dawson or Denver aquifers except pursuant to an approved augmentation plan in accordance with C.R.S. §37-90-137(9)(c.5).
- 12. Applicants shall be entitled to withdraw all legally available groundwater in the Denver Basin aquifers underlying Applicants' respective properties. Said amounts can be withdrawn over the 100-year life for the aquifers as set forth in C.R.S. §37-90-137(4), or withdrawn over a longer period of time based upon local governmental regulations or Applicants' water needs. The average annual amounts of ground water available for withdrawal from the underlying Denver Basin aquifers, based upon the 100-year aquifer life is determined and set forth above, based upon the March 14, 2017 Office of the State Engineer Determination of Facts. Such groundwater may be withdrawn from wells located upon the overlying land or contiguous properties with such contiguity to allow such withdrawal, consistent with the Denver Basin Rules as promulgated by the Office of the State Engineer, as may be amended from time to time.
- 13. Applicants shall be entitled to withdraw an amount of groundwater in excess of the average annual amount decreed herein from the Denver Basin aquifers underlying Applicants' respective properties, so long as the sum of the total withdrawals from wells in the aquifer does not exceed the product of the number of years since the date of issuance of the original well permit or the date of entry of the decree herein, whichever comes first, and the annual volume of water which Applicants are entitled to withdraw from the aquifer underlying Applicants' respective properties.
- The Applicants shall have the right to use the ground water for beneficial uses on or off the Applicants' respective properties consisting of domestic, commercial, irrigation, stock water, recreation, wildlife, wetlands, fire protection, piscatorial, and for storage and augmentation associated with such uses. The amount of groundwater decreed for such uses upon the Applicants' respective properties is reasonable as such uses are to be made for the long term use and enjoyment of the Applicants' respective properties and are to establish and provide for adequate water reserves. nontributary groundwater, may be used, reused, and successively used to extinction, both on and off the Applicants' respective properties subject, however, to the relinquishment of the right to consume two percent of such nontributary water withdrawn. Applicants may use such water by immediate application or by storage and subsequent application to the beneficial uses and purposes stated herein. Provided however, as set forth above, Applicants shall only be entitled to construct a non-exempt well or use water from the not-nontributary Dawson and Denver aguifers pursuant to a decreed augmentation plan entered by the Court. Withdrawals of groundwater available from the nontributary aquifers beneath the Applicants' respective properties in the

amounts determined in accordance with the provisions of this decree will not result in material injury to any other vested water rights or to any other owners or users of water.

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

CONCLUSIONS OF LAW

- 16. The application for adjudication of Denver Basin groundwater was filed with the Water Clerk for Water Division 2 pursuant to C.R.S. §§37-92-302(1)(a) and 37-90-137(9)(c).
- 17. The Applicants' request for adjudication of these water rights is contemplated and authorized by law, and this Court and the Water Referee have exclusive jurisdiction over these proceedings. C.R.S. §§37-92-302(1)(a), 37-92-203, and 37-92-305.
- 18. Subject to the terms of this decree, the Applicants are entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the Applicants' respective properties, and the right to use that water to the exclusion of all others subject to the terms of this decree.
- 19. The Applicants have complied with C.R.S. §37-90-137(4), and the groundwater is legally available for withdrawal by the requested nontributary well(s), and legally available for withdrawal by the requested not-nontributary well(s) upon the entry of a subsequent decree approving an augmentation plan pursuant to C.R.S. §37-90-137(9)(c.5). Applicants are entitled to a decree from this Court confirming their rights to withdraw groundwater pursuant to C.R.S. §37-90-137(4).
- 20. The Denver Basin water rights applied for in this case are not conditional water rights, but are vested water rights determined pursuant to C.R.S. §37-90-137(4). No applications for diligence are required. The claims for nontributary and not-nontributary groundwater meet the requirements of Colorado Law.
- 21. The determination and quantification of the nontributary and not-nontributary groundwater rights in the Denver Basin aquifers as set forth herein is contemplated and authorized by law. C.R.S. §§37-90-137, and 37-92-302 through 37-92-305.

IT IS THEREFORE ORDERED, ADJUDGED AND DECREED AS FOLLOWS:

- 22. All of the foregoing Findings of Fact and Conclusions of Law are incorporated herein by reference, and are considered to be a part of this decretal portion as though set forth in full.
- 23. The Application for Adjudication of Denver Basin Groundwater proposed by the Applicants is approved, subject to the terms of this decree.
- 24. The Applicants have furnished acceptable proof as to all claims and, therefore, the Application for Adjudication of Groundwater as requested by the Applicants is granted and approved in accordance with the terms and conditions of this decree. Approval of this Application will not result in any material injury to senior vested water rights.
- 25. The Applicants shall comply with C.R.S. §37-90-137(9)(b), requiring the relinquishment of the right to consume two percent (2%) of the amount of the nontributary groundwater withdrawn. Ninety-eight percent (98%) of the nontributary groundwater withdrawn may therefore be consumed. No plan for augmentation shall be required to provide for such relinquishment.
- 26. The Court retains jurisdiction over this matter to make adjustments in the allowed average annual amount of withdrawal from the Denver Basin aquifers, either upwards or downwards, to conform to actual local aquifer characteristic, and that the Applicants need not refile, republish, or otherwise amend this application to request such adjustments.
- A. At such time as adequate data may be available, Applicant or the State Engineer may invoke the Court's retained jurisdiction as provided in this Paragraph 26 for purposes of making a final determination of water rights as to the quantities of water available and allowed average annual withdrawals from any of the Denver Basin aquifers quantified and adjudicated herein. Any person seeking to invoke the Court's retained jurisdiction for such purpose shall file a verified petition with the Court setting forth with particularity the factual basis for such final determination of Denver Basin water rights under this decree, together with the proposed decretal language to effect the petition. Within four months of the filing of such verified petition, the State Engineer's Office shall utilize such information as available to make a final determination of water rights finding, and shall provide such information to the Court, Applicant, and the petitioning party.
- B. If no protest is filed with the Court to such findings by the State Engineer's Office within sixty (60) days, this Court shall incorporate by entry of an Amended Decree such "final determination of water rights", and the provisions of this Paragraph 26 concerning adjustments to the Denver Basin ground water rights based upon local aquifer conditions shall no longer be applicable. In the event of a protest

being timely filed, or should the State Engineer's Office make no timely determination as provided in Paragraph 26.A., above, the "final determination of water rights" sought in the petition may be made by the Water Court after notice to all parties and following a full and fair hearing, including entry of an Amended Decree, if applicable in the Court's reasonable discretion.

- 27. Pursuant to C.R.S. §37-92-502(5)(a), the Applicants shall install and maintain such water measurement devices and recording devices as are deemed essential by the State Engineer or Division Engineers, and the same shall be installed and operated in accordance with instructions from said entities. Applicants are to install and maintain a totalizing flow meter on all wells, and any additional or replacement wells. Applicants are also to maintain records and provide reports to the State Engineer or Division Engineers as instructed by said entities, on at least an annual basis.
- 28. The vested water rights and water right structures decreed herein shall be subject to all applicable administrative rules and regulations, as currently in place or as may in the future be promulgated, of the offices of Colorado State and Division Engineers for administration of such water rights, to the extent such rules and regulations are uniformly applicable to other similarly situated water rights and water users.
- 29. This Ruling of Referee, when entered as a decree of the Water Court, shall be recorded in the real property records of El Paso County, Colorado. Copies of this ruling shall be mailed as provided by statute.

DATED THIS 5th day of May, 2017.

BY THE REFEREE:

Marace R. Dilminico

Mardell R. DiDomenico, Water Referee Water Division 2

DECREE

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

Dated: May 31, 2017.

BY THE COURT:

LARRY C SCHWARTZ, WATER JUDGE WATER DIVISION 2

EXHIBIT A

LEGAL DESCRIPTION – ARROYA PARCEL

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

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP \$TAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR \$00°54'30" F. A DISTANCE OF 3925.63 FEET;

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

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

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

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

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

THENCE N59°58'50'E, A DISTANCE OF 694.83 FEET;

THENCE S14°30'58"E, A DISTANCE OF 567.09 FEET;

THENCE N69°36'18"E, A DISTANCE OF 603.87 FEET;

THENCE \$30°23'46"E, A DISTANCE OF 264.58 FEET;

THENCE S61°52'38"W, A DISTANCE OF 227.40 FEET;

THENCE S79°15'47"W, A DISTANCE OF 276.17 FEET;

THENCE S89°39'18"W, A DISTANCE OF 356.07 FEET;

THENCE S40°09'47"W, A DISTANCE OF 310.61 FEET;

THENCE S09°56'46"W, A DISTANCE OF 270.03 FEET;

THENCE S35°00'25"W, A DISTANCE OF 167.38 FEET;

THENCE S57°24'01"W, A DISTANCE OF 235.36 FEET;

THENCE \$27°23'34"E, A DISTANCE OF 611.29 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 35.08 ACRES OF LAND, MORE OR LESS.

Along With:

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

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

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

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

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

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

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

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

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

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

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

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

THENCE N88°38'56"E ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW 1/4 NW 1/4), A DISTANCE OF 1330.91 FEET TO THE POINT OF BEGINNING;

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

EXHIBIT B

LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 1:

A PARCEL OF LAND LOCATED IN A POPPON OF THE SOUTHEAST ONE-QUARTER (SEL/4) OF SECTION 21 AND A PORTION OF THE STATEMENT ONE-QUARTER (NET/A) OF SECTION 28, TOWNSHIP TO SOUTH, RANGE &S MEST OF THE STATEMENT, IL PASO COUNTY, COLORADO, BONG MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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

COMMENSORS AT THE DEFINACIT CORNER OF DAID COUDIEACT ONE-QUARTER (CEL/*) DAID FORT ALLOW SEENS THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED:

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

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

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

ON THE EAST LINE OF THE NORTHWEST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NWW/A NET/4) OF SAID SECTION 28:

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

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

EXHIBIT C

LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 2:

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

BASIS OF BEARINGS. THE WEST LINE OF THE SCUTHEAST ONE-QUARTER (SET/4) OF SECTION 21, TOWNSHIP 12 SCUTH, RANGE 65 WEST IS ASSUMED TO BEAR NOO'25 32*N, A DISTANCE OF 2638.53 FEET;

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

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

THENCE NOO'25' TA'N CONTINUINS ALONG SAID WEST LINE, A DISTANCE OF THE RECORDS OF THE RECORDS OF THE RECORDS OF THE RECORDS.

THE EL PASO COUNTY CLERK AND RECORDER.

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

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

SAID PARCEL OF LAND CONTAINS A CALCULATED APEA OF 35.03 ACRES OF LAND , HORE, OF YESS.

EXHIBIT D

LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 3:

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

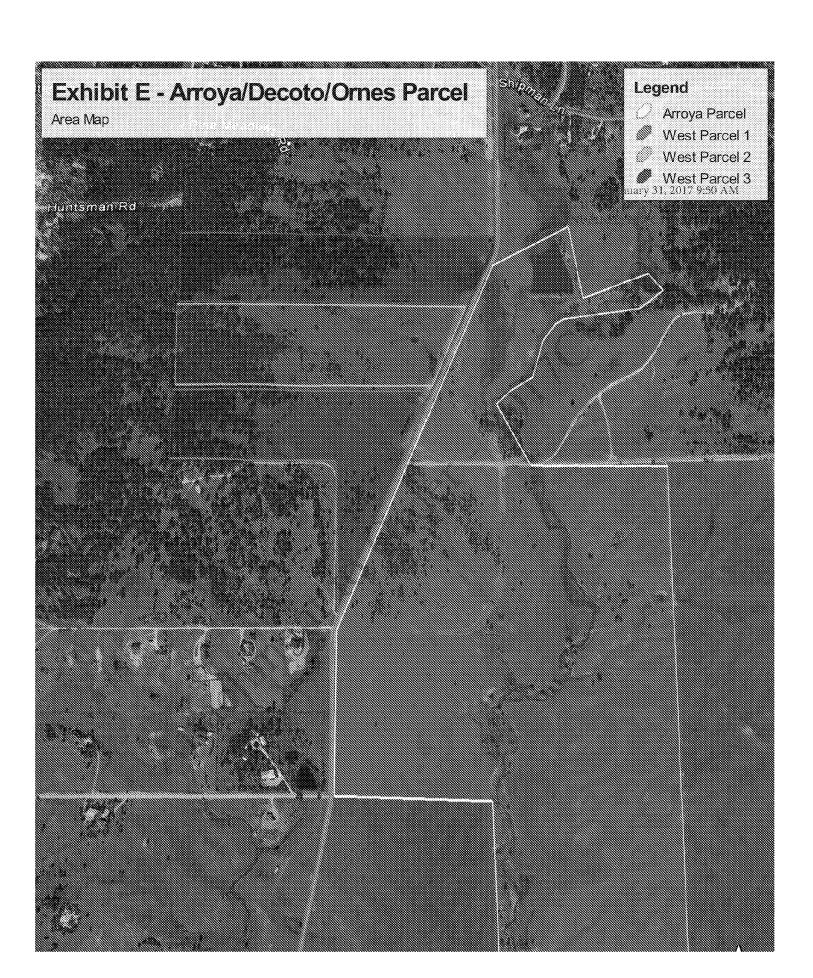
SASIS OF BEARINGS: THE WEST LINE OF THE SOUTHEAST ONE-QUARTER (SEL/A) OF SECTION 21. TOWNSHIP 12 SOUTH, RANGE 65 WEST IS ASSUMED TO SEAR NOO'25 32'W, A DISTANCE OF 2058,50 FEST.

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

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

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

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



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

OCT 29 1986

Case No. 86-CW-18

Priscien & Lycer

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

Clerk

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

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

FINDINGS OF FACT

- 1. The Applicants are The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines whose address is First Interstate Bank of Denver, 633 Seventeenth Street, Denver, Colorado 80202, Attn: Jack Alexander. Applicants filed the application in this case styled Application For Nontributary Ground Water From The Arapahoe Formation (the "Application") on March 28, 1986, seeking an adjudication of nontributary ground water rights from the Arapahoe Formation underlying lands owned by Applicants in El Paso County.
- 2. Timely and adequate notice of the Application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of the lands or water rights involved in this case are within the boundaries of a designated groundwater basin.
- 3. A timely statement of opposition was filed by JVRC, Inc. No other statements of opposition were filed within the time provided by law nor did any other parties enter their appearance or intervene in these proceedings.

- 4. The Water Referee by Order dated July 19, 1986, under Section 37-92-303(2), C.R.S., rereferred the Application to the Water Judge for all further proceedings.
- 5. The State Engineer issued a Determination of Facts on the Application, dated July 28, 1986, which has been filed with the Court. The Division Engineer adopted the Determination of Facts as his recommendations on August 8, 1986. The Determination of Facts and the findings contained therein have been reviewed and considered by this Court in accordance with Section 37-92-305(6), C.R.S.
- Applicants seek an adjudication of rights nontributary ground water from the Arapahoe Formation beneath 1,410 acres of land in El Paso County which are described in Exhibit A and depicted on the map attached as Exhibit B, both of which are incorporated herein by this reference (the "Subject Lands"). Applicants are the owners of the Subject Lands and have the right to withdraw and use the waters from the Arapahoe Formation underlying those lands. The waters claimed herein may be withdrawn through the proposed wells described in Paragraph $\bar{7}$ below and through such additional, replacement and supplemental wells as may be necessary to withdraw all of the water in the Arapahoe Formation underlying the Subject Lands without causing material injury to any vested water right whose source of supply is the Arkansas River and any of its tributaries or any other natural stream, or any ground water tributary thereto, and the Applicants have so proven.
- 7. Applicants will divert the waters claimed herein from the Arapahoe Formation through Dines Wells KA-1, KA-2, KA-3, and KA-4 more particularly described as follows:

Well Name: Dines Well KA-1

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

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

Well Name: Dines Well KA-2

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

Well Name: Dines Well KA-3

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

Well Name: Dines Well KA-4

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

- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.
- * Not to exceed in total the amount available to Applicants from the Arapahoe Formation pursuant to § 37-90-137(4), C.R.S. and the provisions of this decree.
- Pursuant to §37-90-137(4), C.R.S., five hundred seventy-five (575) acre-feet of water per year are available to Applicants from the Arapahoe Formation underlying the Subject The average thickness of saturated sand of the Arapahoe Formation underlying the Subject Lands is 240 feet but the final determination on actual saturated sand thickness will determined when the wells are drilled, and the amount decreed herein may be subsequently adjusted in accordance with that saturated sand thickness as provided in Paragraph 29 below. specific yield of the Arapahoe Formation is 17% in and beneath the Subject Lands. This finding is specific to the property involved and does not indicate or in any way reflect upon proper values for the subject aquifer elsewhere. All the water in the Arapahoe Formation underlying the Subject Lands remains available for withdrawal by the wells decreed herein.
- The State Engineer in his Determination of Facts acre-feet per year were that 581 available appropriation through the subject wells. The State Engineer's determination is based on a finding that only 1395 acres of the Subject Lands are available for appropriation, and based on saturated sand thicknesses of 245 feet and 250 feet for different parts of the Subject Lands and a specific yield of 17% for the Arapahoe Formation. The State Engineer also found that of the total 581 acre-feet per year of water available for appropriation, 569 acre-feet was nontributary and 12 acre-feet was not nontributary. The 12 acre-feet per year the State Engineer found as not nontributary underly 37 acres of Section 32 of the Subject Lands. Applicant has shown by a preponderance of the evidence that there are no existing wells with a right to water from the Arapahoe Formation underlying the Subject Lands and that the water underlying 1410 acres is available for The Court also finds that the appropriation by Applicants. withdrawals through Applicants' proposed wells of the water claimed herein including the amount of water underlying the 37 acres in Section 32 is nontributary. The proposed wells will not, at their location and withdrawing the amounts decreed herein, within one hundred years deplete the flow of any natural stream at a rate greater than one-tenth of one percent of the annual rate of withdrawal. Applicants' engineer has testified that 575 acre-feet per year is available for appropriation calculated with a saturated sand thickness of 240 feet for the

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

- 10. The source of water for the proposed wells is nontributary as defined in Section 37-90-103 (10.5), C.R.S. The proposed withdrawals through Dines Wells KA-1, KA-2, KA-3, and KA-4 in the amount of 575 acre-feet per year, or in any lesser or greater amount determined under Paragraph 29, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal.
- 11. The waters of the Arapahoe Formation that are the subject of the appropriation claimed herein will be, Applicants intend that they be used, and Applicants shall have the right of succession of uses, for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. The water will be produced for immediate application to beneficial use and for storage and subsequent application to beneficial use. Subject only to the provisions of Paragraph 31, Applicants shall have the right to make any reuse, successive use or disposition of the developed claimed herein until totally consumed free of limitations, restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S.
- 12. All of the requirements of C.R.S. § 37-90-137(4), in effect on this date have been complied with, and the issuance of permits for the subject wells is justified and those permits will be issued as described in Paragraph 34 below.
- 13. Applicants will relinquish the right to consume after use, reuse, and successive use 2% of the amount of ground water withdrawn through Dines Wells KA-1, KA-2, KA-3 and KA-4 and any additional, supplemental, or replacement, wells without regard to dominion or control of the ground water so relinquished.
- 14. Applicants seek a decree designating all of the wells described in Paragraph 7 above as original and alternate points of diversion for each other permitting the withdrawal of up to the full cumulative amount by flow rate and volume of water which may be lawfully withdrawn from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested

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

- 15. Applicants may withdraw more water than the amounts set forth in Paragraph 8 so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Arapahoe Formation.
- 16. Applicants have requested that the Court determine that Applicants have the right to withdraw all of the unappropriated water from the Arapahoe Formation lying below their land and to increase their annual appropriations based upon the local aquifer characteristics established through information obtained from the drilling of the wells upon notice to all parties and approval by the Court, without amending the Application or republishing. The Court finds that there has been full and adequate notice of these claims and Applicants will be entitled to an adjustment under the provisions of Paragraph 29 below on the amount of water to which the wells are entitled.
- 17. Applicants may construct any well within 200 feet of the described locations without amending the Application or reopening this decree.
- 18. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the provisions of Paragraph 34 below are and have been justified and shall apply.
- 19. As of March 3, 1986, Applicants have intended to the waters sought in the Application and have claim demonstrated by open and physical acts on the ground and by the completion of engineering study an and hydrogeological investigation on the water available for appropriation in the Arapahoe Formation. Applicants have demonstrated and manifested an intent to appropriate the waters claimed herein by giving sufficient notice thereof, all in accordance with law. evidence presented shows that the Applicants intend appropriate the waters claimed herein, that such intent appropriate has been adequately demonstrated, and that Applicants are entitled to a decree for the water rights herein decreed.
- 20. There is unappropriated water available for withdrawal by the structures decreed herein and the vested water rights of others will not be materially injured by the appropriations as decreed. Only that quantity of water underlying the Subject Lands has been considered to be

unappropriated; the minimum useful life of the Arapahoe Formation is at least one hundred (100) years, assuming no substantial artificial recharge within one hundred (100) years; and no material injury to vested water rights will result from the issuance of or exercise of the permits for the subject wells.

CONCLUSIONS OF LAW

- 21. The Court has jurisdiction to determine Applicants' rights to nontributary ground water pursuant to Sections 37-90-137(6), 37-92-203(1), and 37-92-302 through 305, C.R.S. (Supp. 1985). The procedures and requirements of these statutes have been complied with, full and adequate notice has been given, and no additional notice is required.
- 22. The Court concludes as a matter of law that the Application herein is one contemplated by law. The Application for a decree confirming Applicants' right to divert and use ground water from the Arapahoe Formation beneath the Subject Lands, pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The rights confirmed by this decree are vested property rights. The amount of water confirmed in this decree is that quantity of water underlying the Subject Lands and the annual withdrawals are based on an aquifer life of one hundred years.
- 23. The Court concludes that the rights to ground water determined herein are not conditional water rights and subsequent showings or findings of reasonable diligence under Section 37-92-301(4), C.R.S., are inapplicable and need not be made. Accordingly, each of the water rights adjudicated herein is a final vested property right.
- 24. Applicants are entitled as a matter of law to use, reuse, and successively use to extinction and dispose of all nontributary ground water decreed herein pursuant to Section 37-82-106, C.R.S. (Supp. 1985) subject only to a 2% relinquishment of Applicants' right to total consumption. Failure to use, reuse or recapture such water, including return flows, shall not be deemed a forfeiture or abandonment of the right to such use, reuse or recapture.
- 25. The Court shall retain jurisdiction over this matter to make adjustments to the amount of water available for withdrawal annually to conform to the actual aquifer characteristics encountered upon the drilling of the wells. This retained jurisdiction may be invoked only by the parties under Paragraph 36.

JUDGMENT AND DECREE

- 26. The Findings of Fact and Conclusions of Law set forth in Paragraphs 1-25, above are incorporated herein by this reference.
- 27. The Application for determination of water rights for the subject wells is granted subject to the following limitations.
- A right to five hundred seventy-five (575) acrenontributary ground water per year is decreed and confirmed in Applicants pursuant to § 37-90-137(4), C.R.S., for Dines Wells KA-1, KA-2, KA-3, and KA-4, from the Arapahoe Formation for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock agricultural uses. Applicants shall have the right to recapture, reuse, and dispose of the water developed by the subject wells. Applicants shall have the right to withdraw water for immediate application to beneficial use and for storage and subsequent application to beneficial use and shall have the right to make any reuse, successive use or disposition of the developed water herein to extinction free of any limitations. restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S. subject only to the provisions of Paragraph 31 below. The water may be withdrawn through the wells described in Paragraph 7 above and through such additional wells as may be required in order to maintain the annual appropriation as determined herein. proposed withdrawals through Dines Wells KA-1, KA-2, KA-3, and KA-4 and any additional, supplemental, or replacement wells in the amount of 575 acre-feet per year, or in any additional amounts of water from the Arapahoe Formation underlying the Subject Lands, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% annual rate of withdrawal, and those waters nontributary to any natural surface stream, its alluvium, and any ground water tributary thereto, and the proposed withdrawals will not result in material injury to vested water rights.
- 29. The total amount of water to which Applicants are entitled and which is available to Applicants from the Arapahoe Formation beneath the Subject Lands shall be 575 acre-feet per year or the lesser or greater amount of water each such well is entitled to as subsequently determined from the saturated sand thickness of the Arapahoe Formation determined from the geophysical data obtained from the construction of the wells. Geophysical logs shall be taken in accordance with the applicable

rules promulgated by the State Engineer. In making the determination of the final amount of water to which the subject wells are entitled, the following criteria shall apply:

- (a) Saturated sand thickness shall be defined as the cumulative thickness of saturated materials as shown on the geophysical logs for each well applying standard accepted geophysical log interpretation methodology;
- (b) The specific yield for the Arapahoe Formation shall be 17%;
- (c) The water in the Arapahoe Formation underlying the 1410 acres of the Subject Lands shall be considered available for appropriation by the wells decreed herein.

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

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

- 31. Applicants shall relinquish the right to consume, after use, reuse, and successive use 2% of the water withdrawn through Dines Wells KA-1, KA-2, KA-3 and KA-4 and any additional, supplemental, or replacement wells without regard to dominion or control of the ground water so relinquished.
- 32. All of the wells described in Paragraph 7 may be used as original and alternate points of diversion for each other permitting the withdrawal by flow rate and volume of up to the full cumulative amount of water which may be lawfully withdrawn from all of those wells from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or decreed conditional water right by the granting of this request, and it is hereby granted.
- 33. Applicants may withdraw more water than the final annual appropriation for each well so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of issuance of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Arapahoe Formation.
- 34. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the following provisions shall apply.
 - (a) The State Engineer shall consider the rights granted herein as valid and shall consider the water sought by Applicants as taken and appropriated by Applicants.
 - (b) When Applicants are prepared to drill a well described in this decree, Applicants shall apply to the State Engineer for a well permit and that permit shall be issued within 60 days under terms and conditions no less stringent than those set forth in this decree with the conditions for equipping and constructing the well as are specified in Paragraph 35 herein. In the event that a well permit expires prior to the construction of the well and the application of water to beneficial use, Applicants may apply for a new well permit and the State Engineer shall within 60 days issue a new well permit with the same terms and conditions as the permit that expired.
 - (c) Applicants shall submit well permit applications to the State Engineer's office for any replacement, supplemental or additional wells.

- (d) Any well permitted pursuant to this decree which is drilled within 200 feet of the decreed location shall be deemed to have been drilled at the decreed well location and shall not require application for a new or amended well permit.
- (e) In determining whether good cause exists for granting a request by Applicants to extend well permits for nontributary wells for one or more additional one-year periods pursuant to Section 37-90-137(3)(a)(II), C.R.S. (1985 Supp.), the State Engineer shall recognize that each well decreed herein, and such additional wells as are required from time to time to fully recover the annual appropriation herein, are part of a single integrated water supply system to be constructed over a phased period of time. So long as Applicants still desire to use the groundwater the well permits shall be extended.
- (f) Prior to constructing any additional wells, Applicants shall submit well permit applications to the State Engineer. In considering such permit applications, the State Engineer shall be governed by Section 37-90-137(10), C.R.S. (1985 Supp.) and the provisions of this decree. Any such permitting action may be reviewed by this Court pursuant to Section 37-92-305(6), C.R.S. (1985 Supp.).
- (g) For the purpose of well permit applications, Applicants need not submit separate proof, apart from the terms of this decree, of matters which have been determined herein.
- 35. Applicants shall geophysically log the entire bore hole of each well prior to the installation of casing. Such logs taken in accordance with the applicable promulgated by the State Engineer. In constructing maintaining any well which will withdraw water from the Arapahoe Formation under this decree, the Applicants shall seal off and encase the well with an impervious lining at all levels, except the level of the Arapahoe Formation, to prevent withdrawal of and mixing of groundwater in other aquifers and a totalizing flow meter shall be installed on each well. After construction the Applicants shall attach an identification tag to the well specifying the name of the well, the permit number and the aquifer from which the water is withdrawn. Applicants shall maintain records of the amounts pumped from each well on a monthly basis and such records shall be provided to the Division Engineer or the State Engineer on request.

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

Dated this 29 day of Oct., 1986.

BY THE COURT

Honorable John Tracey

Water Judge Water Division No. 2 State of Colorado

APPROVED AS TO FORM AND SUBSTANCE:

SHERMAN & HOWARD

John L. DeWeerdt #9390

Kenneth L. Salazar #11648

Suite 2900

633 Seventeenth Street Denver, Colorado 80202

Telephone: (303) 297-2900

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

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

VRANESH & RAISCH

Michael D. Shimmin,

Post Office Box 871

Boulder, Colorado 80306 Telephone: (303) 443-6151 Attorneys for Objector

JVRC, Inc.

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

OCT 29 1986

Principer Sylvers Clerk

EXHIBIT A

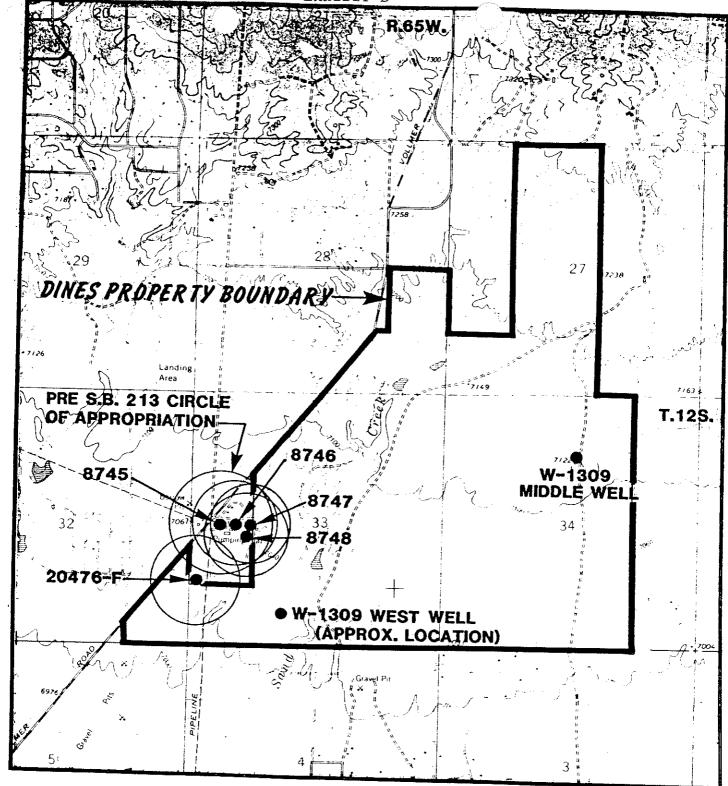
The Subject Lands consist of the following:

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

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

OCT 29 1986

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SCALE 1:24000

LOCATION MAP

FIGURE 1

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

OCT 29 1986 Prisciller Lyners Clork

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

OCT 29 1986

Case No. 86-CW-19

Priseiles Lycers

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

Clerk

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

THIS MATTER, having come on for hearing before the Court this _29 day of _______, 1986 upon the application of The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines ("Applicants") and the Court having considered the pleadings filed and the evidence presented, and being fully advised in the premises, hereby enters the following Findings of Fact, Conclusions of Law, and Judgment and Decree:

FINDINGS OF FACT

- l. The Applicants are The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines whose address is First Interstate Bank of Denver, 633 Seventeenth Street, Denver, Colorado 80202, Attn: Jack Alexander. Applicants filed the application in this case styled Application For Nontributary Ground Water From The Laramie-Fox Hills Aquifer (the "Application") on March 28, 1986, seeking an adjudication of nontributary ground water rights from the Laramie-Fox Hills Aquifer underlying lands owned by Applicants in El Paso County.
- 2. Timely and adequate notice of the Application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of the lands or water rights involved in this case are within the boundaries of a designated groundwater basin.
- 3. A timely statement of opposition was filed by JVRC, Inc. No other statements of opposition were filed within the time provided by law nor did any other parties enter their appearance or intervene in these proceedings.

4. The Water Referee by Order dated July 19, 1986, under Section 37-92-303(2), C.R.S., rereferred the Application to the Water Judge for all further proceedings.

- 5. The State Engineer issued a Determination of Facts on the Application, dated July 28, 1986, which has been filed with the Court. The Division Engineer adopted the Determination of Facts as his recommendations on August 8, 1986. The Determination of Facts and the findings contained therein have been reviewed and considered by this Court in accordance with Section 37-92-305(6), C.R.S.
- Applicants seek an adjudication of rights to nontributary ground water from the Laramie-Fox Hills Aquifer beneath 1,410 acres of land in El Paso County which are described in Exhibit A and depicted on the map attached as Exhibit B, both of which are incorporated herein by this reference (the "Subject Lands"). Applicants are the owners of the Subject Lands and have the right to withdraw and use the waters from the Laramie-Fox Hills Aquifer underlying those lands. The waters claimed herein be withdrawn through the proposed wells described Paragraph 7 below and through such additional, replacement and supplemental wells as may be necessary to withdraw all of the water in the Laramie-Fox Hills Aquifer underlying the Subject Lands without causing material injury to any vested water right whose source of supply is the Arkansas River and any of its tributaries or any other natural stream, or any ground water tributary thereto, and the Applicants have so proven.
- 7. Applicants will divert the waters claimed herein from the Laramie-Fox Hills Aquifer through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 more particularly described as follows:

Well Name: Dines Well KLF-1

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

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

Well Name: Dines Well KLF-2

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

Well Name: Dines Well KLF-3

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

Well Name: Dines Well KLF-4

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

- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.
- * Not to exceed in total the amount available to Applicants from the Laramie-Fox Aquifer pursuant to § 37-90-137(4), C.R.S. and the provisions of this decree.
- 8. Pursuant to §37-90-137(4), C.R.S., five hundred thirty-nine (539) acre-feet of water per year are available to Applicants from the Laramie-Fox Hills Aquifer underlying the The average thickness of saturated sand of the Subject Lands. Laramie-Fox Hills Aquifer underlying the Subject Lands is 255 the final determination on actual saturated sand thickness will be determined when the wells are drilled, and the amount decreed herein may be subsequently adjusted in accordance with that saturated sand thickness as provided in Paragraph 29 The specific yield of the Laramie-Fox Hills Aquifer is 15% in and beneath the Subject Lands. This finding is specific to the property involved and does not indicate or in any way reflect upon proper values for the subject aquifer elsewhere. All the water in the Laramie-Fox Hills Aquifer underlying the Subject Lands remains available for withdrawal by the wells decreed herein.
- The State Engineer in his Determination of Facts that 423 acre-feet per year were available appropriation through the subject wells based on a specific yield of 15% and a saturated sand thickness of 200 feet for the Laramie-Fox Hill Aquifer beneath the Subject Lands. Applicants' engineer has testified that 539 acre-feet per year is available for appropriation calculated with a saturated sand thickness of 255 feet for the Laramie-Fox Hills Aquifer derived from a review of wells in the vicinity of the Subject Lands. Subject to the final determination of saturated sand thickness based on the information derived from the drilling of the wells, Applicants have shown by a preponderance of the evidence that the saturated sand thickness for the Laramie-Fox Hills Aquifer is 255 feet beneath the Applicants' property.
- 10. The source of water for the proposed wells is nontributary as defined in Section 37-90-103 (10.5), C.R.S. The proposed withdrawals through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 in the amount of 539 acre-feet per year, or in any lesser or greater amount determined under Paragraph 29, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal.

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

- 12. All of the requirements of C.R.S. § 37-90-137(4), in effect on this date have been complied with, and the issuance of permits for the subject wells is justified and those permits will be issued as described in Paragraph 34 below.
- 13. Applicants will relinquish the right to consume after use, reuse, and successive use 2% of the amount of ground water withdrawn through Dines Wells KLF-1, KLF-2, KLF-3 and KLF-4 and any additional, supplemental, or replacement, wells without regard to dominion or control of the ground water so relinquished.
- 14. Applicants seek a decree designating all of the wells described in Paragraph 7 above as original and alternate points of diversion for each other permitting the withdrawal of up to the full cumulative amount by flow rate and volume of water which may be lawfully withdrawn from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or decreed conditional water right by the granting of this request, and it is hereby granted.
- 15. Applicants may withdraw more water than the amounts set forth in Paragraph 8 so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Laramie-Fox Hills Aquifer.
- 16. Applicants have requested that the Court determine that Applicants have the right to withdraw all of the unappropriated water from the Larimie-Fox Hills Aquifer lying

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

- 17. Applicants may construct any well within 200 feet of the described locations without amending the Application or reopening this decree.
- 18. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the provisions of Paragraph 34 below are and have been justified and shall apply.
- 19. As of March 3, 1986, Applicants have intended to waters sought in the Application and demonstrated by open and physical acts on the ground and by the completion of an engineering study and hydrogeological investigation on the water available for appropriation in the Laramie-Fox Hills Aquifer. Applicants have demonstrated and manifested an intent to appropriate the waters claimed herein by giving sufficient notice thereof, all in accordance with law. The evidence presented shows that the Applicants intend to appropriate the waters that such claimed herein, intent to appropriate has been adequately demonstrated, and that Applicants are entitled to a decree for the water rights herein decreed.
- 20. There is unappropriated water available withdrawal by the structures decreed herein and the vested water others rights of will not be materially injured appropriations as decreed. Only that quantity of water underlying the Subject Lands has been considered to unappropriated; the minimum useful life of the Laramie-Fox Hills at least one hundred (100) years, assuming substantial artificial recharge within one hundred (100) years; and no material injury to vested water rights will result from the issuance of or exercise of the permits for the subject wells.

CONCLUSIONS OF LAW

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

- 22. The Court concludes as a matter of law that the Application herein is one contemplated by law. The Application for a decree confirming Applicants' right to divert and use ground water from the Laramie-Fox Hills Aquifer beneath the Subject Lands, pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The rights confirmed by this decree are vested property rights. The amount of water confirmed in this decree is that quantity of water underlying the Subject Lands and the annual withdrawals are based on an aquifer life of one hundred years.
- 23. The Court concludes that the rights to ground water determined herein are not conditional water rights and subsequent showings or findings of reasonable diligence under Section 37-92-301(4), C.R.S., are inapplicable and need not be made. Accordingly, each of the water rights adjudicated herein is a final vested property right.
- 24. Applicants are entitled as a matter of law to use, reuse, and successively use to extinction and dispose of all nontributary ground water decreed herein pursuant to Section 37-82-106, C.R.S. (Supp. 1985) subject only to a 2% relinquishment of Applicants' right to total consumption. Failure to use, reuse or recapture such water, including return flows, shall not be deemed a forfeiture or abandonment of the right to such use, reuse or recapture.
- 25. The Court shall retain jurisdiction over this matter to make adjustments to the amount of water available for withdrawal annually to conform to the actual aquifer characteristics encountered upon the drilling of the wells. This retained jurisdiction may be invoked only by the parties under Paragraph 36.

JUDGMENT AND DECREE

- 26. The Findings of Fact and Conclusions of Law set forth in Paragraphs 1-25, above are incorporated herein by this reference.
- 27. The Application for determination of water rights for the subject wells is granted subject to the following limitations.
- 28. A right to five hundred thirty-nine (539) acrefeet of nontributary ground water per year is decreed and confirmed in Applicants pursuant to § 37-90-137(4), C.R.S., for Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4, from the Laramie-Fox Hills Aquifer for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation,

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

- The total amount of water to which Applicants are entitled and which is available to Applicants from the Laramie-Fox Hills Aquifer beneath the Subject Lands shall be 539 acrefeet per year or the lesser or greater amount of water each such is entitled to as subsequently determined from the saturated sand thickness of the Laramie-Fox Hills Aquifer determined from the geophysical data obtained from construction of the wells. Geophysical logs shall be taken in accordance with the applicable rules promulgated by the State In making the determination of the final amount of water to which the subject wells are entitled, the following criteria shall apply:
 - (a) Saturated sand thickness shall be defined as the cumulative thickness of saturated materials as shown on the geophysical logs for each well applying standard accepted geophysical log interpretation methodology;
 - (b) The specific yield for the Laramie-Fox Hills Aquifer shall be 15%;

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

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

- 30. The issuance by the Colorado Division of Water Resources pursuant to Colorado Revised Statutes, Section 37-90-137(4) of permits to construct the subject wells is justified and the Division of Water Resources is directed to issue the permits in accordance with Paragraph 34 below. Each of the requirements of the statute has been complied with. Unappropriated waters are available for appropriation from the Laramie-Fox Hills Aquifer beneath the Subject Lands and the proposed withdrawals will not result in material injury to other vested water rights.
- 31. Applicants shall relinquish the right to consume, after use, reuse, and successive use 2% of the water withdrawn through Dines Wells KLF-1, KLF-2, KLF-3 and KLF-4 and any additional, supplemental, or replacement wells without regard to dominion or control of the ground water so relinquished.
- 32. All of the wells described in Paragraph 7 may be used as original and alternate points of diversion for each other permitting the withdrawal by flow rate and volume of up to the full cumulative amount of water which may be lawfully withdrawn from all of those wells from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or

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

- 33. Applicants may withdraw more water than the final annual appropriation for each well so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of issuance of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Laramie-Fox Hills Aquifer.
- 34. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the following provisions shall apply.
 - (a) The State Engineer shall consider the rights granted herein as valid and shall consider the water sought by Applicants as taken and appropriated by Applicants.
 - (b) When Applicants are prepared to drill a well described in this decree, Applicants shall apply to the State Engineer for a well permit and that permit shall be issued within 60 days under terms and conditions no less stringent than those set forth in this decree with the conditions for equipping and constructing the well as are specified in Paragraph 35 herein. In the event that a well permit expires prior to the construction of the well and the application of water to beneficial use, Applicants may apply for a new well permit and the State Engineer shall within 60 days issue a new well permit with the same terms and conditions as the permit that expired.
 - (c) Applicants shall submit well permit applications to the State Engineer's office for any replacement, supplemental or additional wells.
 - (d) Any well permitted pursuant to this decree which is drilled within 200 feet of the decreed location shall be deemed to have been drilled at the decreed well location and shall not require application for a new or amended well permit.
 - (e) In determining whether good cause exists for granting a request by Applicants to extend well permits for nontributary wells for one or more additional one-year periods pursuant to Section 37-90-137(3)(a)(II), C.R.S. (1985 Supp.), the State Engineer shall recognize that each well decreed herein, and such additional

wells as are required from time to time to fully recover the annual appropriation herein, are part of a single integrated water supply system to be constructed over a phased period of time. So long as Applicants still desire to use the groundwater the well permits shall be extended.

- (f) Prior to constructing any additional wells, Applicants shall submit well permit applications to the State Engineer. In considering such permit applications, the State Engineer shall be governed by Section 37-90-137(10), C.R.S. (1985 Supp.) and the provisions of this decree. Any such permitting action may be reviewed by this Court pursuant to Section 37-92-305(6), C.R.S. (1985 Supp.).
- (g) For the purpose of well permit applications, Applicants need not submit separate proof, apart from the terms of this decree, of matters which have been determined herein.
- 35. Applicants shall geophysically log the entire bore hole of each well prior to the installation of casing. Such logs shall be taken in accordance with the applicable promulgated by the State Engineer. In constructing maintaining any well which will withdraw water from the Laramie-Fox Hills Aquifer under this decree, the Applicants shall seal off and encase the well with an impervious lining at all levels, except the level of the Laramie-Fox Hills Aquifer, to prevent withdrawal of and mixing of groundwater in other aquifers and a totalizing flow meter shall be installed on each well. construction the Applicants shall attach an identification tag to the well specifying the name of the well, the permit number and the aquifer from which the water is withdrawn. Applicants shall maintain records of the amounts pumped from each well on a monthly basis and such records shall be provided to the Division Engineer or the State Engineer on request.

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

Dated this 29 day of Oct., 1986.

BY THE COURT

Water Judge
Water Division No. 2
State of Colorado

APPROVED AS TO FORM AND SUBSTANCE:

SHERMAN & HOWARD

John L. DeWeerdt #9390

Kenneth L. Salazar #11648

Suite 2900

633 Seventeenth Street Denver, Colorado 80202

Telephone: (303) 297-2900

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

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

VRANESH & RAISCH

Michael D. Shimmin, #9182

Post Office Box 871

Boulder, Colorado 80306 Telephone: (303) 443-6151 Attorneys for Objector

JVRC, Inc.

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

OCT 29 1986

Riscilla Lyners Clerk

EXHIBIT A

The Subject Lands consist of the following:

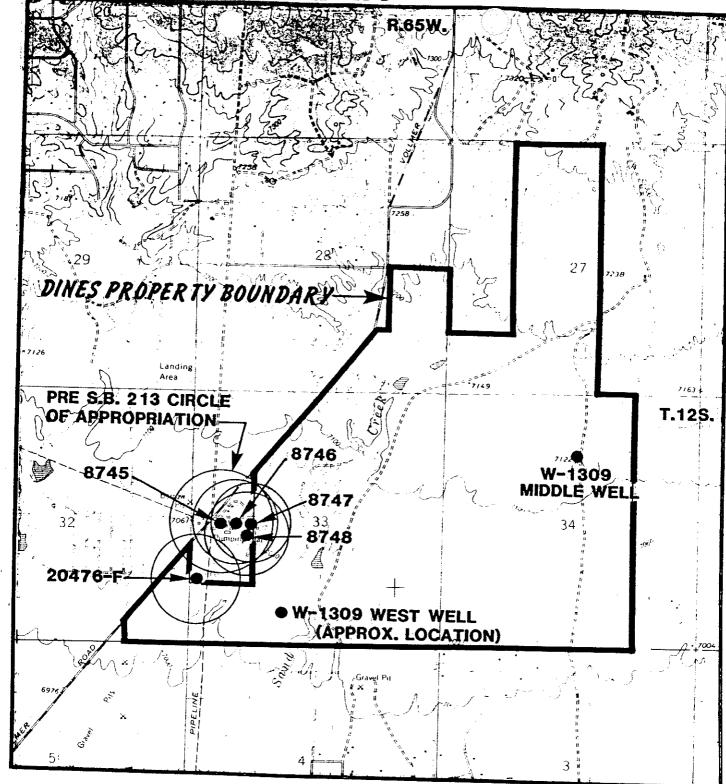
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> Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

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LOCATION MAP

FIGURE 1



Appendix E

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

Revised 6/13/2014

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

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Colorado Analytical

Brighton Lab 240 South Main Street Brighton, CO 80601

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

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

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| 03 A EC | | <u>ب</u> | sent | Γ | | | \exists | | | | Γ | | | \top | | - | ang. In | dex | 5 | |
| Dy: | 301.7 | 5 | Yes | | | \top | | T | 7 | | | T | \top | 7 | | | DOC (C | | | |
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| | | | leads | Γ | | | \top | 1 | 4 | X | | Ť | | \top | | | Alpha/I | | 3 | , |
|)are/ | Sample Fres. Yes IV No L | 5 | Headspace Yes No | Γ | T | | 1 | \top | | | | \top | \top | 7 | < | | m 226 | - | 1bcon | |
| į | : K | : | Yes [| | | | 1 | | \dashv | | | T | 1 | 7 | ×. | Radiu | - | | trac | |
| តា | T. No | 5 | N. | | | | \dagger | \top | 7 | | × | | | Ť | + | Rader | | سنكو | Ta V | ٠ |
| | Ĕ |] | | | T | \top | \dagger | 1 | \top | | | † | + | | | Uranii | | | Subcontract Analyses | |
| | 1 | | | | | | | | | | | 1. | - | | | | age,3/ | o t 3 | <u>L""</u> | _ |
| | | | | | | | | | | | | | | | | | | | | |

Inorganic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS

Revised 4/13/2015

IOC

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

| J. | ection I (Supplied | Section I (Simplied or Commisted by Bublic Witter Statem | in Weton Santonn | 27 M | | 1 | | |
|----------------------------|----------------------|--|---|---|--|---------------------|------------|--------|
| | Public | Public Water System Information | nation | Section II (Supplied | Section 1. (Supplied of Completed by Certified Laboratory) Certified I aboratory Information | Certified | aboratory) | |
| PWSID#: CO-0121724 | | | | Laboratory ID: CO 0015 | | | | |
| System Name: LFH-1 | LFH-1 | | | Laboratory Name: Colorado Analytical Laboratory | nalytical Laboratory | | | |
| Contact Person: Mark Volle | : Mark Volle | | Phone #: | Contact Person: Customer Service | | Phone: 303-659-2313 | -2313 | |
| Comments: | | | Do Samples Need to be Composited BY THE LAB? | Comments: | | | 8 | |
| | | | | | | | | |
| | | | Section III (Supplied or Comp | II (Supplied or Completed by Public Water System) | | | | |
| Sample Date: 2/16/17 | | Collector: Stephanie Schwe Facility | | Sample | Sample Dt ID (On Schadule): | | | |
| | | r.X | | organic Chemicals (Completed by Certified Laboratory) |) | | | |
| Lab Receipt Date | Lub Analysis Date | Lab Sample ID | Analyte Name | CAS No | Analytical | MCI. | Lab MRL | Result |
| 71/11/2 | 2/22/17 | 170217005-01A | Antimony | 7740-36-0 | FPA 200 8 | 0.006 | 1000 C | (mg/L) |
| 2/17/17 | 2/22/17 | 170217005-01A | Arsenic | 7440-38-2 | EPA 200.8 | 0.01 | 0.001 | 0.002 |
| 2/17/17 | 2/22/17 | 170217005-01A | Barium | 7440-39-3 | EPA 200.8 | 2 | 0.001 | 0.015 |
| 2/17/17 | 2/22/17 | 170217005-01A | Beryllium | 7440-41-7 | EPA 200.8 | 0.004 | 0.001 | BDL |
| 2/17/17 | 2/22/17 | 170217005-01A | Cadmium | 7440-43-9 | EPA 200.8 | 0.005 | 0.001 | BDL |
| 71//1/2 | 2/22/17 | 170217005-01A | Chromium | 7440-47-3 | EPA 200.8 | 0.1 | 0.001 | 0.001 |
| 21/11/2 | 2/22/17 | 170217005-01A | Mercury | 7439-97-6 | EPA 200.8 | 0.002 | 0.0001 | BDL |
| 2/17/17 | 2/22/17 | 170217005-01A | Nickel | 7440-02-0 | EPA 200.8 | N/N | 0.001 | 0.001 |
| 2/17/17 | 2/22/17 | 170217005-01A | Selenium | 7782-49-2 | EPA 200.8 | 0.05 | 0.001 | BDL |
| 2/1/7/17 | 2/24/17 | 170217005-01A | Sodium | 7440-23-5 | EPA 200.7 | N/A | 0.1 | 142.7 |
| 21/1/17 | 2/22/17 | 170217005-01A | Thallium | 7440-28-0 | EPA 200.8 | 0.002 | 0.001 | BDL |

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

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

170217005-01A

3/6/17

| 170217005 | Sampler Name: Se Channe Schwenke PONO: | Email: MYOLLE JAShyldro, Com Email: jmorthy 9870 God, Compliance Samples: Yes Myor | Phone: 119-337-007drax: Ph | City CS StateCOZID 80903 CI | _ | 2X Ave | - | Company Name: UDS-Hudro co | |
|---|--|--|----------------------------|-------------------------------|------------------|---|-----------------------------|----------------------------|--|
| PIASSI, I | No.: | will: jonstly 25 to adican | Phone: Fax: | City ColoSassane Cozip 80903 | | Address: 20 Boulder (rescentst New 1/4 Nw 1/4 527 | Contact Name: Jim (Therless | Company Name: SK-Waster | Bill To Information (If different from report to) State Form / Project Information |
| PHASE I, II, V Drinking Water Analyses (check analysis) | Send Forms to State: Yes ZNo XI | 7 | County: El Paso | City Lob Sers Smill zingo 90% | TIDS EGSW 1 THAN | NE 1/4 Nw 1/4 527 | System Name: | PWSID: 60-0121724 | State Form / Project Information |
| alysis) | Jw.S | WWW.ca | Yee AFax: 30 | Phone | Lakewo | Lakewo | Brighto | Brighto | LABOHA |

ABORATORIES, INC.

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

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

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

coloradolab.com

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

Date | Time

Client Sample ID / EP Code

No. of Containers

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

Total Coliform P/A

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

525.2 SOCs-Pest

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

Lead/Copper

Nitrate Nitrite

Fluoride

Inorganics

Alk./Lang. Index

TOC DOC (Circle)

15.55 35.30

工事

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19.70

ARF

Instructions:

Date/Time:

Asi.e.

date Time:

Delivered Via:

C/S Charge Date/Time

Received By:

°C /lce

Sample Pres. Yes No C

Relinquished By:

MS% 8:52

S. . . 46.5 5

P #

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C/S Info:

Scals Present Yes No W Headspace Yes No C

#

50 7250

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

Uranium

Subcontract Analyses 11 11 PERS 1913 - 11 1.12

| | Sampler Name: STEPH SCHNENCKE | Email: Par Myalle & joddyydro, con Email: jmorley@ 3870(200), con Compliance Samples: Yes X No | Phone: 719-227-0072Fax: | CityCoa SP65 State CO Zip \$0903 | SULTIFIC BOOD | SHS E. BYES PERK AND | Address: Address: | Company Name: JDS HNDRO | SEPORE TO ESTORMAN |
|---|--|--|-------------------------|------------------------------------|------------------|--|--------------------------|-------------------------|---|
| | PO No.: | Email: jmortey@3570@aol.com | Phone: Fax: | City Colo 265 State Co Zip 60903 | | SHS E. BYES PEAK AND Address; 20 BOWLDER CRESCENT ST NEW NOW 527 | Contact Name: JTM MORLEY | Company Name: SR WATER | Bill To information (if different from report to) |
| | Send Forms to State: Yes TNO N Terries | Compliance Samples: Yes X No 12 | County: EL PASO | City COLO SPGS State CO Zip (0708) | TIDS RUSED CT PM | Address AND 4 527 | System Name: | rwsid: Co-0121724 | State Form / Project Information |
| • | 5.0 | 14 | _ | | | | | | |

Colorado Analytical

Brighton Lab 240 South Main Street Brighton, CO 80601

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

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

www.coloradolab.com

Prepresults state forms

| · | | | | 7 | T | 1 | - | - | - | | _ | _ | | | | | |
|------------------|-----------------------|-------------------|---|-------|--------|--------------|-----------|----------|------|-----|------|--------|--------|------------|-------------------------|---|----------------------|
| 3, | Relinanished | Instructions: | | | | | | 911 | 7 | | | | 5 | Date | .] | · 170 | CAL |
| | | tions: | | 31.14 | 21-15 | 8 | X.44 | 27.0 | 03.1 | いたが | 17.0 | 7:50 | 200 | Time | ARF | 170217005 | CAL Task No. |
| 1 9 17 1 2 x 2 | Date | | | 年1日 | 418 | 1 = 1 | # 6 | | | #15 | する | | | Clien | | | |
| To the | | 25(47 |) | É | بسب | | - | | | _ | U | W | w | | f Containers | | |
| 511 | | SOYBlank | | | | 2 . | | | | | | | | Resid | ual Chlorine | | |
| 20 5 | | K | | | _ | | <u> </u> | \vdash | | + | | _ | | - | Coliform P/A EDB/DBCP | - | |
| 2/17/11 | | | | | | | _ | | | | | | | | Pests/PCBs | 1 | |
| G. | _ | | | | | | <u>X</u> | | | | | | | 515.4 | Herbicides : | 7. | |
| B | Vol | + | | X | | | | | | | | | | 374 | WOCE GOV | 1 | H |
| | Deli | C/S Infa | | | | | | | | | | | | 525.2 | SOCs-Pest | ֓֞֟֝֟֝֟֝֟֝֟֝֓֓֓֓֓֟֟֟֝֓֓֓֟֟֟ | |
| eling | vered | O. | | | | | | | | | | | | 531.1 | Carbamates | 7 | = |
| Tush Tush | Delivered Via: | 7 | | | | | | | | T | | | | 547 C | lyphosate | | |
| Relinquished By: | الح ا | _ | | | T | | | | | | | | | 548.1 | Endothall | 1 | PHASE I II V Drintin |
| y: | 6 | | | | × | | | | | T | | | | 549.2 | Diquat | 400 | a |
| | 7 | `[| | | | | | | | 1 | | | | 524.2 | TTHMs | WAVE AUGISTS (CHECK MINISSES) | V |
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| Date/Time: | C/S Charge [| | | | П | | | | Γ | T | | | | Lead/ | Copper | | |
| Tin | harge | | | | | $ \top $ | | | | T | | | | Nitrat | | | |
| <u></u> | | ſ | Ī | | | \exists | | | | | | | | Nitrite | ; | | |
| | Temp. | Se | | | | X | | | | T | | | \neg | Fluori | Drineina de Waler ID | | |
| Received By: | e J | Seals Present Yes | | | | | | | | | | | | lnorga | | Ty. | |
| ived | 9 | sent | | | | | \exists | | | | | \neg | | | ang. Index | 5 | |
| Ву: | °C /Ice | <u>8</u> | | | | | | | | T | | \neg | | | DOC (Circle) | 1 | |
| | _ | S | | | T | | | | | T | 1 | | | | UV 254 (Circle) | | |
| | S | | 3 | | | | | | | | | ×. | | 1,4 | Dioxane | | |
| | nple | cads | | | | | * | X | | | | | | Gross | Alpha/Beta | S. | • |
| Date/Time | Pres | Jace 1 | | | | | | | | | | | × | Radiu | | DCOL | |
| | S S | No Headspace Yes | | | \int | | \int | | | | | , | × | Radiu | n 228 | tract | |
| 4 | Sample Pres. Yes XINo | No. | | | | | | | × | | | | | Raden | Cyamide | Subcontract Analyses | |
| | | | | | | T | I | | | | T | | \top | Uraniu | - | yses | |
| | | | | | | | | | | ì. | 1. | | | المال | age 3 of 3 | <u> </u> | |



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

None Received

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

ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

| L | ab San | ple ID | B16917-001 | | | | | |
|--------------------|---------|--------|------------|----------------|------------|-------------------------|----------------|---------|
| Custom | ner Sam | ple ID | 170217005- | 01 - Lfh-1 - F | PWSID: CO | 0121724 - LFH-1 | | |
| | | | | sampled or | 02/16/17 (| @ 0906 by Stephanie Sch | wenke | |
| | | | | Precision* | Detection | | Analysis | |
| Parameter | | Code | Result | +/- | Limit | Method | Date / Time | Analyst |
| Gross Alpha | | | 0.0 | 0.0 | 1.5 | SM 7110 B | 3/2/17 @ 0840 | LD |
| Gross Beta | pCI/L | Т | 0.0 | 2.1 | 2.2 | SM 7110 B | 3/2/17 @ 0840 | LD |
| | pCI/L | T | 0.0 | 0.2 | 0.1 | SM 7500-Ra B | 3/3/17 @ 0825 | LD |
| | pCi/L | T | 0.0 | 0.8 | 8.0 | EPA Ra-05 | 3/14/17 @ 1257 | JR |
| Radon | pCi/L | Т | 345 | 25 | 13.9 | SM 7500-Rn B | 2/17/17 @ 1500 | AN |

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

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

[&]quot;Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



Radionuclides Certified Laboratory Report Form

WQCD - Drinking Water CAS

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



Revision 6/13/2014

| and bavissomen | | | rax: (303) /38-1398; capne.arinkingwater(a)state.co.us | apne.arinkingw | ater(a)state.co.us | | | | |
|-------------------------|------------------------------------|--|--|------------------------------|--|----------------------------------|-----------------------|---------------|------------|
| | Section | Section I (Supplied or Completed by Public | blic Water System) | | Section II (Supplied or Completed by Certified Laboratory) | d or Completed | by Certified L | aboratory) | |
| | A. | Public Water System Information | | | Certified La | Certified Laboratory Information | ation | | |
| PWS ID: C00121724 | 21724 | | | Laboratory ID: CO 00008 | 80000 | | | | |
| System Name: Lfh-1 | Cfb-1 | | | Laboratory Name | Laboratory Name: Hazen Research, Inc. | | | | |
| Contact Person: | | | Phone #: | Contact Person: Jessica Axen | ssica Axen | | Phone #: 303-279-4501 | 279-4501 | |
| Comments: | <u>.</u> | | Do Samples Need to be Composited BY THE LAB? | Comments: | - | | | | |
| | | | | | | | | | |
| | | | Section III (Suppl | ied 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 | | Sample Pt ID (On Schedule): | | | | |
| | | | Section IV Radionuclides | (Supplied or Comp | Section IV Radionuclides (Supplied or Completed by Certified Laboratory) | ory) | | | |
| Lab Receipt Date | Lab Receipt Lab Analysis Date Date | Lab Sample ID | Analyte Name (Code) | (Code) | CAS No. | Analytical Method | MCL | Lab MRL | Result |
| 710071/20 | 03/02/2017 | R16917_001 | Gross Alpha Including Uranium (4002) | Uranium (4002) | 12587-46-1 | SM 7110 B | N/A | 1.5 | 0.0(±0.0) |
| | | | Combined Uranium (4006) | m (4006) | 7440-61-1 | D2907-97 | 30 ug/L | | |
| 02/17/2017 | 03/03/2017 | B16917-001 | Radium -226 (4020) | (4020) | 13982-63-3 | SM 7500-Ra B | N/A | 0.1 | 0.0(±0.2) |
| 02/17/2017 | 03/14/2017 | B16917-001 | Radium -228 (4030) | (4030) | 15262-20-1 | EPA Ra-05 | N/A | 8.0 | 0.0(±0.8) |
| 02/17/2017 | 03/02/2017 | B16917-001 | Gross Beta (4100) | 4100) | 12587-47-2 | SM 7110 B | 50 pCi/L* | 2.2 | 0.0(±2.1) |
| | | | Total Dissolved Solids (1930) | lids (1930) | | 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 BPA considers 50 pCi/L to be the level of concern. | r. Since there is no simple | conversion betwe | en mrem/year and pCi/L | EPA considers 5 | 0 pCi/L to be | e the level o | f concern. |
| | | | Section V Calculated Values | Values | | | | | |
| | | ₩/N | Gross Alpha Excluding Uranium (4000) | Uranium (4000) | Calculated Value | ilue | 15 pCi/L | N/A | |
| | 4 | 47 F.L. | Combined Radium {-226 & -228} (4010) | 6 & -228} (4010) | Calculated Value | ılue | 5 pCi/L | N/A | |

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

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

ug/L: Micrograms per Liter

pCi/L: Picocuries per Liter

MCL: Maximum Contaminant Level

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

| | Colorado Analo |
|----|----------------|
| -5 | J.C. |

Brighton Lab 240 South Main Street Brighton, CO 80601 Lakewood Lab
12860 W. Cedar Dr, Suite 101
Lakewood CO 80228

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

| | | L |
|--|--|------------|
| | | LOIO WANAA |
| | | |
| | | |

| | _ | | | | | | | | | B | | | | | _ | |
|------|------------------|---|---------|--|---|---|--|--|-----|---|---------|--------------------|----------------------------|-------------------------------------|-------------|---|
| | Acanagua | ~ × | | Instruc | | | | | | | | 02/16/17 | Date | | Task | |
| | Alalan | | | ions:Pleas | | | | | | | 7 7 | 0906 | Time | | Task Number | |
| - | 4 | | | e print on s | | | | | | | MCM | | Client S | | | |
| 2011 | 2/17/16 | | | Instructions:Please print on state forms but do not submit to CDPHE. Thanks! | | : | | | 140 | | BOTTLES | 170217005-01 LFH-1 | Client Sample ID / EP Code | | | |
| | Received By: | | | ot submit | | | | | | | | | ode | · | | |
| | d Ву: | | | т С | | | | | | | | 6 | No. o | f Containers | | |
| | | | | DPHE. Th | | | | | | | | | Resid (mg/l P/A S | ival Chlorino _) iamples Only | | |
| | | | | anks | | | | | | | | | Tota | l Coliform P/ | A | |
| | | | | | | | | | | | | | 504. | EDB/DBCF | • | |
| | Date/ | | | | | | | | | | | | 505 | Pests/PCBs | _ | |
| | Date/lime: | | | | | | | | | | | | 515.4 | Herbicides | | PH |
| | | | | | | | | | | | | | 524,2 | 2 VOCs | | PHASE I, II, V Drinking Water Analyses (check analysis) |
| | | Deli | | C/S Info: | | | | | | | | | 525.2 | 2 SOCs-Pest | | I, I |
| | Keli | Delivered Via: | | Info; | | | | | | | | | 531.1 | l Carbamates | | V |
| | Relinquished By: | Via: | | | | | | | | | | | 547 (| Glyphosate | | Di |
| | hed k | Fede | 4:01 | | | | | | | | | | 548. | Endothall | | King |
| | ÿ: | ×3,7 | | | | | | | | | | | 549.2 | 2 Diquat | | W |
| | | CIS X | A. Mary | | | | | | | | | | 524.2 | 2 TTHMs | | ater |
| | | | (| | | | | | | | | | 552.2 | 2 HAA5s | | Ama |
| | Dat | C/S/C | | | | | | | | | | | Lead | /Copper | | lyse |
| | Date/Lime: | C/S Charge | | | | | | | | | | | Nitra | te | | टि |
| | E | | | | | | | | | | | | Nitri | te | | eck |
| | | Temp. | 4 | Sea | O | | | | | | | | Fluo | ride | | |
| | 24 | ģ | D | ls Pre | P | | | | | | | | Inorg | ganics | | ysis) |
| | 11/2 | °C /Ice | 1 | Seals Present Yes | 7 | | | | | | | | Alk./ | Lang, Index | | |
| | () 3 | 8 | 7 | 3 | | | | | | | | | TOC | , DOC (Circl | e) | |
| | 4 | Sam | N | N. | | | | | | | | | SUVA | , UV 254 (Circle |) | |
| | 9 | 문 | 公 | H | | | | | | | | | | | | : |
| 1 | 02/ | Sample Pres. Yes 🗌 No 🗌 | (2) | Headspace Yes | | | | | | | | X | Gros | s Alpha/Beta | | Subc |
| | 7 Da | S C |) # | ace Y | | | | | | | | X | Radi | um 226 | | ontr |
| | Date/Time: | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 42 | | 山 | | | | | | | X | Radi | um 228 | | act A |
| | Date/Time: 430 | - | 12 | Ö | 6 | | | | | | | X | Rado | n | | Subcontract Analyses |
| | O.Z. | | / | J | | | | | | | | | Uran | ium | | 2 |



Analytical Results

TASK NO: 170217005

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

Bill To: Jim Morley

Company: SR Water

20 Boulder Crescent St.

Colorado Springs CO 80903

Task No.: 170217005

Client PO:

Client Project: LFH-1 CO-0121724

Date Received: 2/17/17

Date Reported: 3/6/17

Matrix: Water - Drinking

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

Lab Number: 170217005-01

| Test | Result | Method | ML | Date Analyzed | Analyzed By |
|------------------------|---------------------|-------------|------|---------------|-------------|
| Bicarbonate | 155.5 mg/L as CaCO3 | SM 2320-B | 0.1 | 2/20/17 | VDB |
| Calcium as CaCO3 | 6.3 mg/L | SM 3111-B | 0.1 | 2/24/17 | MBN |
| Carbonate | 4.0 mg/L as CaCO3 | SM 2320-B | 0.1 | 2/20/17 | VDB |
| Langelier Index | -0.43 units | SM 2330-B | | 2/24/17 | SAN |
| 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:

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

DATA APPROVED FOR RELEASE BY

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

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240 South Main Street Brighton, CO 80601 Brighton Lab

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

Phone: 303-659-2313

AFax: 303-659-2315

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| 4 | ASE 1, II, V Drinking Water Analyses (check analysis) | Send Forms to State: Year No X | (4) | |
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Sampler Name: Storan Shuxakd PONO.

Email: Myolle @ Jashydro, Com

Phone: 719-227-007drax:

Phone:

Fax:

County: El Paso

Cr

State OZip Sto903

City ColoSocissine Cozin 80903

Singly sund zigogo

TIDS RESW 6#AH

Address: 20 Beauther Crescentst

Ne 1/4 Nw 1/4

027

Contact Name: Jim Morley

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

Company Name: SP Waster

Address S45 E. Piles Real Air

Suite 200

Contact Name | LOVE Volle

Company Name: JDS-Hydro

Report To Information

| | | Relinanthy | Instructions: | 8.5.8 | MS.60 | X S | 2000 | 0000 | | , , o , o , o , o , o , o , o , o , o , | TOOCH | 3:30 | 100 | -1.51 | | CAL Task No. |
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| | Date/Time: | | | | × | | | | | | | | × | × | Total Coliform P/A 504.1 EDB/DBCP 505 Pests/PCBs | |
| | Relinquished By: | Delivered Via: Delivered | C/S Info: | × | | * | | | | | | ς . | | | 525.2 SOCs-Pest 531.1 Carbamates 547 Glyphosate 548.1 Endothall 549.2 Diquat | PHASE I, II, V Drinking We |
| | Date/Timek | C/S Charge N T | > | | | | | | ×.×. | | | | | | 524.2 TTHMs 552.2 HAA5s Lead/Copper Nitrate Nitrite | ing Water Analyses (check analysis) |
| | - | Temp. A °C/Ice 4 | Scals Present Yes No W | | | | × | , | × | | | | | | TOO DOC (Circle) SUVA, UV 254 (Circle) | malysis) |
| | 9 | Sample Pres. Yes No No | Headspace Yes No | | | | | X | | | | | | | Gross Alpha/Beta Radium 226 Radium 228 Radon Uranium | Subcontract Analysis |

| | CAL Task No. 170217005 | Sampler Name: STEPH SCHWENKE | Email: Bar Myalle @ joshydra, con Email: jmorley@ 3870@gol.com Compliance Samples: Yes X No | Phone: 719-227-0072 Fax: | CityCas SP65 State Co Zip \$0903 | SUCTE 300 | SHS F. BYES PEAK AND | Address: | Company Name: UDS HYDRO | Report To Information |
|--------------------------|---------------------------------|------------------------------|---|--------------------------|------------------------------------|------------|--|--------------------------|-------------------------|---|
| iners | | PO No.: | Email: | Phone: | City COLO Stass State COZip (OP 03 | | Address: Add | Contact Name: 3747 MOKIE | Company Name: SR WATER | Bill To Information (If different from report to) |
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| sate | / Dr | Send Forms to | ompl | County: 2 | ity O | T 125 | Zag a | System Name: | PWSID: CC | State Form / Pr |
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| r | alys | State: Yes No X | 2 | | 6 | RGSW GT PM | 2 | | -0121724 | roject information |
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Colorado
Analytical
LABORATORIES, INC.

Brighton Lab
240 South Main Street
Brighton, CO 80601

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

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

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It's state forms

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| | <u></u> | | | | [| | | | | | | | 1 | | Uran | | - | | yses | |
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Nitrate and Nitrite as Nitrogen Certified Laboratory Report Form WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login

NOX

Revised 4/13/2015

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

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

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

3/6/17 170217005-01

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

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

Lab Cedar Dr, Suite 100A CO 80228

-659-2313 59-2315

dolab.com

| | Fluoride | |
|---|---------------------------------------|--------|
| | Inorganics | an You |
| | Alk./Lang. Index | ٤ |
| 4 | TOC DOC (Circle) | |
| | SUVA, UV 254 (Circle) | |
| | metals | |
| | Gross Alpha/Beta | CMC |
| | Radium 226 | 200 |
| | Radium 228 | Sam. |
| | Radon | 1 |
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Date | Time

Client Sample ID / EP Code

No. of Containers

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

Total Coliform P/A

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

525.2 SOCs-Pest

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

Lead/Copper

Nitrate **Nitrite**

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#1

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

Headspace Yes | No |

date Time:

Delivered Via:

Relinquished By:

Date/Time

C/S Info:

Instructions:

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Uranium

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| LABORATO | Produ | |
| ABORATORIES, INC. | ticol | |

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

Brighton Lab
240 South Main Street
Brighton, CO 80601

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

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

www.coloradolab.com

please the share forms

Send Forms to State: Yes No X

Sampler Name: STEPH SCHWENKE

| | | Instructions: | M. Cho | £15.5 | 1 kg | 8:44 | JIP 8340 | £175 E | 3,75 | 9:50 | 2 6 5 3 | Date Time | ARF | 200717005 | CAL Task No. | | |
|--------------------|----------------------|------------------------|--------|-------|------|------|----------|--------|------|------|---------|----------------------------|--|-----------|---|--|--|
| 1/6/17 3:50 | | | も一年 | | L!# | 416 | #15 | 1年 | 中 | 412 | # | Client Sample ID / EP Code | | | | | |
| Son Reported By: | 1 | 211 +) SOUBLAND | فن | | | | | _ | v | W | w | No. o | f Containers | | | | |
| 2/17/11 | | lank | | | | • | | | | | | P/A S Total 504.1 | amples Only Coliform F EDB/DBC Pests/PCBs | P/A | | | |
| OGO Relinquished B | Vo A Delivered Via: | C/S Info | × | | | | | | | | | 525.2 531.1 | | 24 | PHASE I, II, V | | |
| ished By: | 5 | | | × | | | | | | | | 548.1 549.2 524.2 | 531.1 Carbamates 547 Glyphosate 548.1 Endothall 549.2 Diquat 524.2 TTHMs | | | | |
| Date/Time: | C/S Charge | | | | | | | | | | | Lead/ Nitrat | e Decoration | | PHASE I, II, V Drinking Water Analyses (check analysis) | | |
| Received By: | Temp. O °C/lee \ | Seals Present Yes 🗌 No | | | X | | | | | | | Inorga Alk./I | المعادر | le) | analysis) | | |
| Date/Time: | Sample Pres. Yes 10 | No N Headspace Yes No | | | | • | × | × | | ×. | × | Gross Radiu Radiu | Alpha/Beta m 226 m 228 | | Subcontract Analyses | | |
| | | 2 | | | | | | X | 1 | | | Urani | um age 3,01 | | nalyses | | |

Organic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS

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

VOC/SOC

Revised 4/13/2015

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

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

170217005-01

1/2 3/6/17

| | Γ | | | | | Γ | Τ | Г | Γ | Τ | Г | Т | Γ | Т |
|--|-----------------------------------|--|---------------|---------|-------------------|---------------------------|---------------|---------------|---------------|-------------------|---------------|----------------------------|---------------|---------------|
| | | | Result | (ug/L) | BDL | BDL | BDL | BDL | BDL | RDL | BDL | BDL | BDI. | BDI |
| | | | Lab MRL | (ng/L,) | 0.1 | 0.1 | 0.02 | 0.1 | 1 | 0.04 | 0.1 | 0.1 | 0.07 | - |
| | L | | MCL | (mg/l.) | I | 50 | 0.2 | 40 | 200 | - | 200 | 0.5 | 4 | 3 |
| | Sample Pt ID (On Schedule): | aboratory) | Analytical | Method | EPA 505 | EPA 505 | EPA 505 | EPA 505 | EPA 531.1 | EPA 515.4 | EPA 515.4 | EPA 505 | EPA 525.2 | EPA 505 |
| blic Water System) | Sample Pt | ompleted by Certified L | CAS No | | 118-74-1 | 77-47-4 | 58-89-9 | 72-43-5 | 23135-22-0 | 87-86-5 | 1918-02-1 | 1336-36-3 | 122-34-9 | 8001-35-2 |
| Section V (Supplied or Completed by Public Water System) | chwenk Facility ID (On Schedule): | Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory) | Analyte Name | | Hexachlorobenzene | Hexachlorocyclopentadiene | Lindane | Methoxychlor | Oxamyl | Pentachlorophenol | Picloram | Polychlorinated biphenyl's | Simazine | Toxaphene |
| | Collector: Stephanie Schwenk Faci | Section VI Syntheti | Lab Sample ID | | 170217005-01F | 170217005-01F | 170217005-01F | 170217005-01F | 170217005-011 | 170217005-01G | 170217005-01G | 170217005-01F | 170217005-01H | 170217005-01F |
| | 6/17 | | Lab Analysis | Date | 2/24/17 | 2/24/17 | 2/24/17 | 2/24/17 | 3/2/17 | 3/1/17 | 3/1/17 | 2/24/17 | 2/23/17 | 2/24/17 |
| PWSID#: CO-0121724 | Sample Date: 2/16/17 | | Lab Receipt | Date | 2/17/17 | 21/11/2 | 2/17/17 | 2/17/17 | 2/17/17 | 21/117 | 2/17/17 | 2/17/17 | 2/17/17 | 2/17/17 |

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

LABORATORIES, INC.

Main Street

Lab Cedar Dr, Suite 100A CO 80228

-659-2313 59-2315 dolab.com

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

1 PROR 1914

Date | Time

Client Sample ID / EP Code

No. of Containers

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

Total Coliform P/A

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

525.2 SOCs-Pest

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

Lead/Copper

Nitrate Nitrite

Fluoride

Inorganics

ARF

Instructions:

Date/Time:

Date Time:

Delivered Via:

Relinquished By:

Date/Time

Received By:

°C/Ice

Sample Pres. Yes No |

C/S Info:

Seals Present Yes | No |

Headspace Yes No

HS%

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Bill To information (If different from report to)

State Form / Project Information

Report To Information

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| July 17 2: Rep Reserved by: | | +175 | | #19 | 814 | | # 6 | 15 | 中一工 | 中で | もの | # | Client Sample ID / EP Code | | | | SIEPH KLEDICKE | mualle @ jolshydra. com | Phone: 719-227-0072Fax: | State Co Zip \$0903 | 300 | (4) | THAKK VOLCE | |
| Ž | | 25 (| - | E) | | | | | _ | U | W | 63 | No. of | f Containers | - | | PO No.: | Emai | Phone: | City | | Address: 20 | Con | Com |
| 7, ä | | 7 | | | \$- | | - | | | | | 5 | | ual Chlorine | - | | 9 | 15 | e. | 50 | | 10° | act N | pany |
| * | | SOYBlank | | | | | | | | | | | (mg/L |) amples Only | | | | Email: jmorley@ 3870@aol.comCompliance Samples: Yes X No | | City Colo Abs State Co Zip | | 0 80 | Contact Name: JY | Company Name: SR |
| 7 = | | F | _ | | | | | | | | | | Total | Coliform P/A | | 7 | | SH S | | Sta | | BOULDER | K | - 1 |
| Date/Time: | | | \dashv | | | _ | | | _ | _ | | | 504.1 | EDB/DBCP | | | | S | | ا ا | | S | 3 | WATER |
|) | | - | \dashv | | | - | | _ | \dashv | _ | | | 505 I | Pests/PCBs | | | | 2 | Fax: | Zip | | 0 | MOKIEY Y | 25 |
| 0000 | 140.0 | | | | | | | _ | | _ | _ | _ | | Herbicides . | 3 | | | (D) | | ô | | CRESCENT ST | D | |
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| shed | ح : | . | \dashv | \dashv | - | \dashv | - | \dashv | - | - | \dashv | - | | lyphosate | Drink | <u>' </u> | Send Forms to State: Yes T.No M | | County: 6 | CityCOLO 5965 StateCO Zip (0908 | 125 | Address Work | System Name: | WSID. |
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| Ç. | | | • | \perp | | | | | | Þ | 4 | | 1,41 | Siexane | | | \$ | www.coloradolab.com | Fax: 303-659-2315 | Phone: 303-659-2313 | 12860 W. Cedar Dr, (Lakewood CO 80228 | akewood Lab | 240 South Main Street Brighton, CO 80601 | Brighton Lab |
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INDEADE AND 4

Colorado Analytical



Analytical Results

TASK NO: 170217005

Report To: Mark Voile

Company: JDS Hydro Consultants 545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

Bill To: Jim Morley

Company: SR Water

20 Boulder Crescent St.

Colorado Springs CO 80903

Task No.: 170217005

Client PO:

Client Project: LFH-1 CO-0121724

Date Received: 2/17/17

Date Reported: 3/6/17

Matrix: Water - Drinking

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

Lab Number: 170217005-01

| Test | Result | Method | ML | Date Analyzed | Analyzed By |
|----------------------|-------------------|-----------|-------------------|---------------|-------------|
| Chloride | 5.8 mg/L | EPA 300.0 | 0.1 mg/L | 2/17/17 | LJG |
| Cyanide-Free | < 0.005 mg/L | EPA 335.4 | 0.005 mg/L | | VDB |
| E-Coli | < 1 mpn/100ml | Colilert | 1 mpn/100mi | | VDB |
| Sulfate | · | EPA 300.0 | 0.1 mg/L | | ЫG |
| Total Coliform | 142.1 mg/L | Colliert | 1 mpn/100ml | | VDB |
| | 93 mpn/100ml | | • | | ISG |
| Total Organic Carbon | 0.8 mg/L | SM 5310-C | 0.5 mg/L | | |
| Turbidity | 2.49 NTU | SM 2130-B | 0.01 NTU | 2/17/17 | MBN |
| <u>Total</u> | | | | | |
| Aluminum | 0.053 mg/L | EPA 200.8 | 0.001 mg/L | 2/22/17 | TCD |
| Calcium | 2.5 mg/L | EPA 200.7 | 0.1 mg/L | 2/22/17 | MBN |
| Соррег | 0.0026 mg/L | EPA 200.8 | 0.0008 mg/L | | TCD |
| Iron | 0.602 mg/L | EPA 200.7 | 0.005 mg/L | | MBN |
| Lead | 0.0005 mg/L | EPA 200.8 | 0.0001 mg/L | | TCD |
| Magnesium | 0.39 mg/L | EPA 200.7 | 0.02 mg/L | | MBN |
| Manganese | 0.0259 mg/L | EPA 200.8 | 0.0008 mg/L | | TCD |
| Potassium | 1.6 mg/L | EPA 200.7 | 0.1 mg/L | | MBN |
| Silver | < 0.0001 mg/L | EPA 200.8 | 0.0001 mg/L | | TCD |
| Strontium | 0.037 mg/L | EPA 200.8 | 0.005 mg/L | | TCD |
| Total Hardness | 7.7 mg/L as CaCO3 | SM 2340-B | 0.1 mg/L as CaCO3 | | MBN |
| Uranium | < 0.0002 mg/L | EPA 200.8 | 0.0002 mg/L | | TCD |
| Zinc | 0.002 mg/L | EPA 200.8 | 0.001 mg/L | | TCD |

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY



Analytical Results

TASK NO: 170217005

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

Bill To: Jim Morley Company: SR Water

20 Boulder Crescent St.

Colorado Springs CO 80903

Task No.: 170217005

Client PO:

Client Project: LFH-1 CO-0121724

Date Received: 2/17/17

Date Reported: 3/6/17

Matrix: Water - Drinking

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

Lab Number: 170217005-01

| Test | Result | Method | ML. | Date Analyzed | Analyzed By |
|--------------|------------|-----------|------------|---------------|-------------|
| <u>Total</u> | | | | | |
| Zinc | 0,005 mg/L | EPA 200.8 | 0.001 mg/L | . 2/22/17 | TCD |

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

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

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| | 1 | 4 | Z 2 | | \perp | \perp | | | _ | \downarrow | \perp | | | SUVA, L | IV 254 (Circle) | | | | ₩.col | AFax: 303-659-2315 | Phone: 303-659-2313 | [2860 W. Cedar Dr. [Lakewood CO 80228 | lakewood Lab | 240 South Main Stri Brighton, CO 80601 | Brighton Lab | |
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| | | | Headspace Yes No | + | - | + | | | _ | 4 | - | _ | \downarrow | Radium | 228 | Subcontract Analyses | | | 100 | | | 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228 | | * | | |
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Colorado Analytical

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

Brighton Lab 240 South Main Street Brighton, CO 80601

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

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

www.coloradolab.com

Presidents state forms

Send Forms to State: Yes TNo X

Sampler Name: STEPH SCHWENKE

CAL Task No.

| 8 | [, | D. | | Inote | | | | | - | - | | | (). | Date | | | |
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| | Relinquished By: | Delivered Via: | C/S Info: | | | | | | | | | | | 547 G | Carbamat lyphosate | | PHASE I, II, V Drink |
| | By: | 2 | 5 | | | × | | | | | | + | | 549.2 | Endothall Diquat TTHMs | | iking Wat |
| | Date | C/S C | | | | | | | | | | | | 552,2 | HAA5s Copper | | er Analy: |
| | Date/Time: | C/S Charge | | | | | | | | | | 1 | | Nitrate Nitrite | 2 | | ses (checi |
| | Recei | Temp 2 | Scals Present Yes | | | | X | | | | | + | | Eluori Inorga | nics | 70 | ing Water Analyses (check analysis) |
| | Received By: | °C/Ice | | | | | | | | _ | | | | тос, | ang. Index | cle) | ٦ |
| | | Samp | No N Head | 5 | + | + | + | • | × | + | | ×. | | 1,4 | UV 254 (Circ | e | GO. |
| | Date/Tim∳ | Sample Pres. Yes WiNo | Headspace Yes | | | + | + | - | + | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | V | Radius Radius | | a | Subcontract Analyses |
| | *2 | S S | □ 3 □ | | | + | + | + | 7 | Κ | + | | | Raden | Cyam | ide | t Analyses |
| L | | | | | | | | | | ŀ | \ | | | | ige Api | | 7/ |

Billings, MT 800.735.4489 • Casper, WY 888.235.0515

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

ANALYTICAL SUMMARY REPORT

March 02, 2017

Colorado Analytical Laboratories inc PO Drawer 507 Brighton, CO 80601

Work Order:

C17020566

Quote ID: C4542 - 624, 625, 1,4-Dioxane

Project Name:

170217005 LFH-1 CO-0121724

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

for analysis.

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

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

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

Report Approved By:

Digitally signed by Randy Horton

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

Billings, MT 800.735.4489 • Casper, WY 888.235.0515

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

CLIENT: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Report Date: 03/02/17

CASE NARRATIVE

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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

170217005 LFH-1 CO-0121724

Lab ID:

C17020566-001

Client Sample ID: 170217005-01 LFH-1

Report Date: 03/02/17

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

Matrix: Drinking Water

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

RL - Analyte reporting limit.

Report Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc 170217005 LFH-1 CO-0121724

Project: Lab ID:

C17020566-001

Client Sample ID: 170217005-01 LFH-1

Report Date: 03/02/17

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

Matrix: Drinking Water

| Amalueae | Dani. M | Haita | Qualifica | D it | MCL/ QCL Method | Inthesia Seekeria Data / Per | | |
|--------------------------------|---------|--------------|------------|-------------|--------------------|------------------------------|--|--|
| Analyses | Result | Units | Qualifiers | RL. | QCL Method | Analysis Date / By | | |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | ug/L | 2 | 2.0 | E624 | 02/24/17 19:19 / eli-l | | |
| Methyl ethyl ketone | ND | ug/L | : | 20 | E624 | 02/24/17 19:19 / eli-l | | |
| Methyl isobutyl ketone | ND | ug/L | | 10 | E624 | 02/24/17 19:19 / eli-t | | |
| Methylene chloride | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-l | | |
| Naphthallene | ND | ug/L | 0 | .50 | E624 | 02/24/17 19:19 / eli-l | | |
| Styrene | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-t | | |
| Tetrachloroethene | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-l | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-b | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / ell-t | | |
| Toluene | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / ell-b | | |
| Trichioroethene | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-t | | |
| 1,1,1-Trichloroethane | ND | ug/L | | 1.0 | E624 | 02/24/17 19:19 / eli-b | | |
| 1,1,2-Trichloroethane | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-b | | |
| Frichlorofluoromethane | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-b | | |
| 1,2,3-Trichloropropane | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-t | | |
| /inyl Acetate | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-t | | |
| /inyl chloride | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-b | | |
| n+p-Xylenes | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-b | | |
| -Xylene | ND | ug/L | | 1.0 | E624 | 02/24/17 19:19 / eli-t | | |
| Kylenes, Total | | ug/L | | 1.0 | E624 | 02/24/17 19:19 / eli-b | | |
| Surr: 1,2-Dichloroethane-d4 | | %REC | | -139 | E624 | 02/24/17 19:19 / eli-b | | |
| Surr: p-Bromofluorobenzene | | %REC | | -127 | E624 | 02/24/17 19:19 / eli-b | | |
| Surr: Toluene-d8 | 94.0 | %REC | 80- | -123 | E624 | 02/24/17 19:19 / eli-b | | |
| SEMI-VOLATILE ORGANIC COMPOU | NDS | | | | | | | |
| Acenaphthene | ND | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| Acenaphthylene | ND | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| Anthracene | ND | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| Zobenzene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| Benzidine | | ug/L | | 10 | E625 | 02/28/17 13:13 / eli-b | | |
| Benzo(a)anthracene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| Benzo(a)pyrene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| Benzo(b)fluoranthene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| Benzo(g,h,i)perylene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| Benzo(k)fluoranthene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| -Bromophenyl phenyl ether | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| Butylbenzyiphthalate | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| -Chloro-3-methylphenol | | ug/L ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| is(-2-chloroethoxy)Methane | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| pis(-2-chloroethyl)Ether | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| vis(2-chloroisopropyl)Ether | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| 2-Chloronaphthaiene | | ug/L ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b | | |
| OTHER REPUBLISHED | ND | ωB⊁ Ľ | | i V | E020 | 02121111 18.21 1 ell-0 | | |

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.



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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

170217005 LFH-1 CO-0121724

Lab ID:

C17020566-001

Client Sample ID: 170217005-01 LFH-1

Report Date: 03/02/17 Collection Date: 02/16/17 DateReceived: 02/21/17

Matrix: Drinking Water

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

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

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

Client Sample ID: 170217005-01 LFH-1

470047005 04 | 51

Report Date: 03/02/17

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

Matrix: Drinking Water

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

Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

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

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QA/QC Summary Report Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories inc

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

Project: 170217005 LFH-1 CO-0121724

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|---------------|----------------|-----------------|------|-----------|------------|-----|----------------|-----------|
| Method: E624 | | | | | | | Ar | nalytical Run: | R275391 |
| Lab ID: ccv022417 | Continuing Ca | libration Veri | fication Standa | rd | | | | 02/24 | /17 09:51 |
| Acetone | 40.8 | ug/L | 20 | 82 | 70 | 130 | | | |
| Acetonitrile | 60.0 | ug/L | 20 | 120 | 70 | 130 | | | |
| Acrolein | 59.2 | ug/L | 20 | 118 | 70 | 130 | | | |
| Acrylonitrile | 46.4 | ug/L | 20 | 93 | 70 | 130 | | | |
| Benzene | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Bromobenzene | 4.56 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| Bromochloromethane | 4.64 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| Bromodichloromethane | 4.08 | ug/L | 0.50 | 82 | 70 | 130 | | | |
| Bromoform | 4.08 | ug/L | 0.50 | 82 | 70 | 130 | | | |
| Bromomethane | 5.56 | ug/L | 0.50 | 111 | 70 | 130 | | | |
| Carbon disulfide | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Carbon tetrachloride | 3.70 | ug/L | 0.50 | 74 | 70 | 130 | | | |
| Chlorobenzene | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Chlorodibromomethane | 4.32 | ug/L | 0.50 | 86 | 70 | 130 | | | |
| Chloroethane | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 2-Chloroethyl vinyl ether | 3.07 | ug/L | 1.0 | 61 | 70 | 130 | | | S |
| Chloroform | 4.36 | ug/L | 0.50 | 87 | 70 | 130 | | | |
| Chloromethane | 4.60 | ug/L | 0.50 | 92 | 70 | 130 | | | |
| 2-Chlorotoluene | 4.84 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| 4-Chiorotoluene | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| 1,2-Dibromoethane | 4.40 | ug/L | 0.50 | 88 | 70 | 130 | | | |
| Dibromomethane | 4.60 | ug/L | 0.50 | 92 | 70 | 130 | | | |
| 1,2-Dichlorobenzene | 4.72 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| 1,3-Dichlorobenzene | 4.84 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| 1,4-Dichlorobenzene | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| Dichlorodifluoromethane | 3.87 | ug/L | 0.50 | 77 | 70 | 130 | | | |
| 1,1-Dichloroethane | 4.40 | ug/L | 0.50 | 88 | 70 | 130 | | | |
| 1,2-Dichloroethane | 3.78 | ug/L | 0.50 | 76 | 70 | 130 | | | |
| 1,1-Dichloroethene | 4.20 | ug/L | 0.50 | 84 | 70 | 130 | | | |
| cis-1,2-Dichloroethene | 4.72 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| trans-1,2-Dichloroethene | 4.64 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| 1,2-Dichloropropane | 5.20 | ug/L | 0.50 | 104 | 70 | 130 | | | |
| 1,3-Dichloropropane | 4.64 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| 2,2-Dichloropropane | 3.92 | ug/L | 0.50 | 78 | 70 | 130 | | | |
| 1,1-Dichloropropene | 4.40 | ug/L | 0.50 | 88 | 70 | 130 | | | |
| cis-1,3-Dichloropropene | 4.56 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| trans-1,3-Dichloropropene | 4.04 | បg/L | 0.50 | 81 | 70 | 130 | | | |
| Ethylbenzene | 4.84 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 3.68 | ug/L | 0.50 | 74 | 70 | 130 | | | |
| Methyl ethyl ketone | 42.8 | ug/L | 20 | 86 | 70 | 130 | | | |
| Methyl isobutyl ketone | 45.6 | ug/L | 20 | 91 | 70 | 130 | | | |
| Methylene chloride | 5.44 | ug/L | 0.50 | 109 | 70 | 130 | | | |
| Naphthalene | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Work Order: C17020566

Project: 170217005 LFH-1 CO-0121724

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

| Method: E624 | | | | | | | Batch: R275391 |
|--------------------------|----------------|---------------|------|-----|---------------|---------|----------------|
| Lab ID: cs02241 | 7 Laboratory C | ontroi Sample | | F | Run: 5971A.l_ | 170224A | 02/24/17 10:31 |
| Acetone | 41.6 | ug/L | 20 | 83 | 55 | 144 | |
| Acetonitrile | 60.4 | ug/L | 20 | 121 | 54 | 142 | |
| Acrolein | 49.6 | ug/L | 20 | 99 | 16 | 233 | |
| Acrylonitrile | 46.0 | ug/L | 20 | 92 | 76 | 127 | |
| Benzene | 4.96 | ug/L | 0.50 | 99 | 73 | 122 | |
| Bromobenzene | 4.76 | ug/L | 0.50 | 95 | 74 | 129 | |
| Bromochloromethane | 4.64 | ug/L | 0.50 | 93 | 66 | 120 | |
| Bromodichloromethane | 4.44 | ug/L | 0.50 | 89 | 74 | 128 | |
| Bromoform | 4.36 | ug/L | 0.50 | 87 | 66 | 128 | |
| Bromomethane | 5.76 | ug/L | 0.50 | 115 | 51 | 123 | |
| Carbon disulfide | 4.92 | ug/L | 0.50 | 98 | 46 | 145 | |
| Carbon tetrachloride | 3.80 | ug/L | 0.50 | 76 | 75 | 125 | |
| Chiorobenzene | 4.92 | u g /L | 0.50 | 98 | 80 | 123 | |
| Chlorodibromomethan | 4.64 | u g /L | 0.50 | 93 | 74 | 125 | |
| Chloroethane | 5.04 | ug/L | 0.50 | 101 | 59 | 142 | |
| 2-Chloroethyl vinyl ethe | 2.74 | ug/L | 1.0 | 55 | 36 | 144 | |
| Chloroform | 4.40 | ug/L | 0.50 | 88 | 68 | 124 | |
| Chloromethane | 4.64 | ug/L | 0.50 | 93 | 53 | 146 | |
| 2-Chiorotoluene | 5.04 | ug/L | 0.50 | 101 | 75 | 131 | |
| 4-Chlorotoluene | 4.68 | ug/L | 0.50 | 94 | 74 | 129 | |
| 1,2-Dibromoethane | 4.40 | ug/L | 0.50 | 88 | 76 | 124 | |
| Dibromomethane | 4.76 | ug/L | 0.50 | 95 | 77 | 125 | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|---------------|--------------|------|------|------------|-------------|-----|----------|-----------|
| Method: E624 | · · · · · | | | | | | | Batch: | R275391 |
| Lab ID: 1cs022417 | Laboratory Co | ntrol Sample | | | Run: 5971 | A.I_170224A | | 02/24 | /17 10:31 |
| 1,2-Dichlorobenzene | 4.80 | ug/L | 0.50 | 96 | 74 | 124 | | | |
| 1,3-Dichlorobenzene | 5.00 | ug/L | 0.50 | 100 | 77 | 122 | | | |
| 1,4-Dichlorobenzene | 4.80 | ug/L | 0.50 | 96 | 76 | 126 | | | |
| Dichlorodifluoromethane | 4.36 | ug/L | 0.50 | 87 | 56 | 146 | | | |
| 1,1-Dichloroethane | 4.56 | ug/L | 0.50 | 91 | 74 | 133 | | | |
| 1,2-Dichloroethane | 3.76 | ug/L | 0.50 | 75 | 75 | 129 | | | |
| 1,1-Dichloroethene | 4.28 | ug/L | 0.50 | 86 | 74 | 132 | | | |
| cis-1,2-Dichloroethene | 4.76 | ug/L | 0.50 | 95 | 81 | 122 | | | |
| trans-1,2-Dichloroethene | 5.08 | ug/L | 0.50 | 102 | 79 | 143 | | | |
| 1,2-Dichloropropane | 5.20 | ug/L | 0.50 | 104 | 75 | 126 | | | |
| 1,3-Dichloropropane | 4.32 | ug/L | 0.50 | 86 | 71 | 136 | | | |
| 2,2-Dichloropropane | 4.00 | ug/L | 0.50 | 80 | 68 | 142 | | | |
| 1,1-Dichloropropene | 4.16 | ug/L | 0.50 | 83 | 70 | 131 | | | |
| cis-1,3-Dichloropropene | 4.12 | ug/L | 0.50 | 82 | 74 | 135 | | | |
| trans-1,3-Dichloropropene | 3.96 | ug/L | 0.50 | 79 | 76 | 149 | | | |
| Ethylbenzene | 4.92 | ug/L | 0.50 | 98 | 72 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 3.71 | ug/L | 0.50 | 74 | 72 | 120 | | | |
| Methyl ethyl ketone | 45.2 | ug/L | 20 | 90 | 45 | 130 | | | |
| Methyl isobutyl ketone | 49.2 | ug/L | 20 | 98 | 58 | 135 | | | |
| Methylene chloride | 5.64 | ug/L | 0.50 | 113 | 66 | 142 | | | |
| Naphthalene | 5.44 | ug/L | 0.50 | 109 | 69 | 124 | | | |
| Styrene | 4.84 | ug/L | 0.50 | 97 | 80 | 124 | | | |
| Tetrachloroethene | 4.68 | ug/L | 0.50 | 94 | 72 | 131 | | | |
| 1,1,1,2-Tetrachioroethane | 4.16 | ug/L | 0.50 | 83 | 78 | 124 | | | |
| 1,1,2,2-Tetrachioroethane | 4.72 | ug/L | 0.50 | 94 | 68 | 137 | | | |
| Toluene | 5.16 | ug/L | 0.50 | 103 | 72 | 135 | | | |
| Trichloroethene | 4.80 | ug/L | 0.50 | 96 | 85 | 126 | | | |
| 1,1,1-Trichloroethane | 3.73 | ug/L | 0.50 | 75 | 63 | 120 | | | |
| 1,1,2-Trichloroethane | 4.68 | ug/L | 0.50 | 94 | 78 | 124 | | | |
| Trichiorofluoromethane | 3.30 | ug/L | 0.50 | 66 | 72 | 120 | | | s |
| 1,2,3-Trichloropropane | 4.04 | ug/L | 0.50 | 81 | 64 | 138 | | | • |
| Vinyl Acetate | 4.08 | ug/L | 1.0 | 82 | 31 | 124 | | | |
| Vinyl chloride | 5.12 | ug/L | 0.50 | 102 | 58 | 140 | | | |
| m+p-Xylenes | 9.84 | ug/L | 0.50 | 98 | 67 | 139 | | | |
| o-Xylene | 4.84 | ug/L | 0.50 | 97 | 74 | 135 | | | |
| Xylenes, Total | 14.7 | ug/L | 0.50 | 98 | 70 | 137 | | | |
| Surr: 1,2-Dichloroethane-d4 | | | 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 | ND | ug/L | 20 | | | _ | | | |
| Acetonitrile | ND | ug/L | 20 | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

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

QA/QC Summary Report Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

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

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

al Laboratories inc

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

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--|---|-----------------------|--|-------------|----------------------|-----------------|-----------------|---------------|----------------|------------|
| Method: | E624 | | | | | | | | Batch: | R27539 |
| Lab ID: | blk022417 | Method Blank | | | Run: 5971A.i_170224A | | | 02/24/17 11:3 | | |
| 1,1,1,2-Tel | trachloroethane | ND | ug/L | 0.50 | | | | | | |
| 1, 1,2,2-Tet | trachloroethane | ND | ug/L | 0.50 | | | | | | |
| Toluene | | ND | ug/L | 0.50 | | | | | | |
| Trichloroet | hene | ND | ug/L | 0.50 | | | | | | |
| i,1,1-Trich | loroethane | ND | ug/L | 0.50 | | | | | | |
| 1,1,2-Trich | loroethane | ND | ug/L | 0.50 | | | | | | |
| Frichloroflu | roromethane | ND | ug/L | 0.50 | | | | | | |
| 1,2,3-Trich | ioropropane | ND | ug/L | 0.50 | | | | | | |
| /inyl Aceta | ate | ND | ug/L | 1.0 | | | | | | |
| /inyl chlori | ide | ND | ug/L | 0.40 | | | | | | |
| n+p-Xylen | es | ND | ug/L | 0.50 | | | | | | |
| -Xylene | | ND | ug/L | 0.50 | | | | | | |
| (ylenes, T | otal | ND | ug/L | 0.50 | | | | | | |
| Surr: 1,2 | 2-Dichloroethane-d4 | | | 0.50 | 74 | 71 | 139 | | | |
| Surr: p-E | Bromofluorobenzene | | | 0.50 | 90 | 80 | 127 | | | |
| Surr: To | luene-d8 | | | 0.50 | 94 | 80 | 123 | | | |
| ab ID: b17021110-001bms Sam | | Sample Matrix | Spike | | Run: 5971A.I_170224A | | | 02/24 | /17 20:47 | |
| crolein | | ND | ug/L | 20 | 0 | 16 | 233 | | | S 1 |
| crylonitrile | ė | 48.8 | ug/L | 20 | 98 | 76 | 127 | | | |
| -Chloroeti | hyl vinyl ether | 3.44 | ug/L | 1.0 | 69 | 36 | 144 | | | |
| Surr: 1,2 | l-Dichloroethane-d4 | | | 0.50 | 80 | 71 | 139 | | | |
| Surr: p-E | Bromofluorobenzene | | | 0.50 | 95 | 80 | 127 | | | |
| Surr: Tol | luene-d8 | | | 0.50 | 100 | 80 | 123 | | | |
| | s a known very reactive compour mple matrix. | nd. The recovery of t | his compound was r | ormal in th | e Laborat | ory Control Sar | mple (LCS). The | compound | appears to hav | ve reacted |
| .ab ID: | b17021110-001bmsd | Sample Matrix | Sample Matrix Spike Duplicate Run: 5971A.I_170224A | | 02/24 | /17 21:16 | | | | |
| crolein | | ND | ug/L | 20 | 0 | 16 | 233 | | 20 | S 1 |
| crylonitrii | 9 | 48.8 | ug/L | 20 | 98 | 76 | 127 | 0.0 | 20 | |
| -Chloroeti | nyl vinyl ether | 3.66 | ug/L | 1.0 | 73 | 36 | 144 | 6.1 | 20 | |
| Surr: 1,2 | -Dichloroethane-d4 | | | 0.50 | 81 | 71 | 139 | | | |
| Surr. p-E | Bromofluorobenzene | | | 0.50 | 96 | 80 | 127 | | | |
| Surr: Tol | uene-d8 | | | 0.50 | 99 | 80 | 123 | | | |
| 1 = This is with the sar | s a known very reactive compour nple matrix. | nd. The recovery of t | his compound was n | ormal in th | e Laborat | ory Control Sar | nple (LCS). The | compound | appears to hav | ve reacted |
| ab ID: | b17021110-001bms | Sample Matrix Spike | | | | | .i_170224A | | 02/24 | /17 18:21 |
| cetone | | 40.4 | ug/L | 20 | 81 | 55 | 144 | | | |
| Acetonitrile | ! | 66.0 | ug/L | 20 | 132 | 54 | 142 | | | |
| Benzene | | 4.60 | ug/L | 0.50 | 92 | 73 | 122 | | | |
| Bromobenzene | | 4.60 | ug/L | 0.50 | 92 | 74 | 129 | | | |
| Bromochloromethane | | 4.56 | ug/L | 0.50 | 91 | 66 | 120 | | | |
| Bromodichloromethane | | 4,36 | ug/L | 0.50 | 87 | 74 | 128 | | | |
| Bromoform | | 4.40 | ug/L | 0.50 | 88 | 66 | 128 | | | |
| 3romoform | | 5.88 | dg, L | 0.50 | | 51 | 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 | Quai |
|--------------------------|--------------------|--------------|---------|------|------|-----------|-------------|-----|----------|-----------|
| Method: | E624 | | | | | - | | | Batch: | R275391 |
| Lab ID: b17021110-001bms | | Sample Matri | k Spike | | | Run: 5971 | A.I_170224A | | 02/24 | /17 18:21 |
| Carbon disulfide | | 5.12 | ug/L | 0.50 | 102 | 46 | 145 | | | |
| Carbon tetrachloride | | 3.59 | ug/L | 0.50 | 72 | 75 | 125 | | | S |
| Chlorobenzene | | 4.52 | ug/L | 0.50 | 90 | 80 | 123 | | | |
| Chlorodibre | omomethane | 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-Chlorotol | luene | 4.68 | ug/L | 0.50 | 94 | 74 | 129 | | | |
| 1,2-Dibrom | noethane | 4.16 | ug/L | 0.50 | 83 | 76 | 124 | | | |
| Dibromome | ethane | 4.64 | ug/L | 0.50 | 93 | 77 | 125 | | | |
| 1,2-Dichlor | obenzene | 4.64 | ug/L | 0.50 | 93 | 74 | 124 | | | |
| 1,3-Dichlor | obenzene | 4.88 | ug/L | 0.50 | 98 | 77 | 122 | | | |
| 1,4-Dichlor | robenzene | 4.76 | ug/L | 0.50 | 91 | 76 | 126 | | | |
| Dichlorodifl | luoromethane | 4.32 | ug/L | 0.50 | 86 | 56 | 146 | | | |
| 1,1-Dichlor | oethane | 4.24 | ug/L | 0.50 | 85 | 74 | 133 | | | |
| 1,2-Dichlor | oethane | 3.48 | ug/L | 0.50 | 70 | 75 | 129 | | | S |
| 1,1-Dichloroethene | | 4.12 | ug/L | 0.50 | 82 | 74 | 132 | | | |
| cis-1,2-Dicl | hioroethene | 4.48 | ug/L | 0.50 | 90 | 81 | 122 | | | |
| trans-1,2-D | ichloroethene | 4.64 | ug/L | 0.50 | 93 | 79 | 143 | | | |
| 1,2-Dichlon | opropane | 4.92 | ug/L | 0.50 | 98 | 75 | 126 | | | |
| 1,3-Dichlor | opropane | 4.24 | ug/L | 0.50 | 85 | 71 | 136 | | | |
| 2,2-Dichlor | opropane | 3.60 | ug/L | 0.50 | 72 | 68 | 142 | | | |
| 1,1-Dichlore | opropene | 4.04 | ug/L | 0.50 | 81 | 70 | 131 | | | |
| cis-1,3-Dict | hloropropene | 4.08 | ug/L | 0.50 | 82 | 74 | 135 | | | |
| trans-1,3-D | ichloropropene | 3.97 | ug/L | 0.50 | 79 | 76 | 149 | | | |
| Ethylbenze | ne | 4.64 | ug/L | 0.50 | 93 | 72 | 130 | | | |
| Methyl tert- | butyl ether (MTBE) | 3.63 | ug/L | 0.50 | 73 | 72 | 120 | | | |
| Methyl ethy | /l ketone | 44.4 | ug/L | 20 | 89 | 45 | 130 | | | |
| Methyl isob | utyl ketone | 51.2 | ug/L | 20 | 102 | 58 | 135 | | | |
| Methylene o | chloride | 5.44 | ug/L | 0.50 | 109 | 66 | 142 | | | |
| Naphthalen | ie . | 4.84 | ug/L | 0.50 | 97 | 69 | 124 | | | |
| Styrene | | 4.56 | ug/L | 0.50 | 91 | 80 | 124 | | | |
| Tetrachloro | ethene | 4.44 | ug/L | 0.50 | 89 | 72 | 131 | | | |
| 1,1,1,2-Tetr | rachloroethane | 3.95 | ug/L | 0.50 | 79 | 78 | 124 | | | |
| 1,1,2,2-Tetr | rachloroethane | 4.88 | ug/L | 0.50 | 98 | 68 | 137 | | | |
| Toluene | | 4.88 | ug/L | 0.50 | 98 | 72 | 135 | | | |
| Trichloroeth | nene | 4.56 | ug/L | 0.50 | 91 | 85 | 126 | | | |
| 1,1,1-Trichle | oroethane | 3.51 | ug/L | 0.50 | 70 | 63 | 120 | | | |
| 1,1,2-Trichle | oroethane | 4.52 | ug/L | 0.50 | 90 | 78 | 124 | | | |
| Trichloroflu | oromethane | 3.29 | ug/L | 0.50 | 66 | 72 | 120 | | | S |
| 1,2,3-Trichle | oropropane | 3.90 | ug/L | 0.50 | 78 | 64 | 138 | | | |
| Vinyl Acetat | te | 4.00 | ug/L | 1.0 | 80 | 31 | 124 | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17

Work Order: C17020566

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|---|--------------|-------------------|----------------------|------|-------------|-------------|---------------|----------|-----------|
| Method: E624 | | | | | | | | Batch: | R27539 |
| Lab ID: b17021110-001bms Sample Matrix S | | x Spike | | | Run: 5971 | A.I_170224A | | 02/24 | l/17 18:2 |
| 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 Matri | x Spike Duplicate | Run: 5971A.i_170224A | | A.i_170224A | | 02/24/17 18:5 | | |
| Acetone | 44.0 | ug/L | 20 | 88 | 55 | 144 | 8.5 | 20 | |
| Acetonitrile | 65.6 | ug/L | 20 | 131 | 54 | 142 | 0.6 | 20 | |
| Benzene | 5.04 | ug/L | 0.50 | 101 | 73 | 122 | 9.1 | 20 | |
| Bromobenzene | 4.96 | ug/L | 0.50 | 99 | 74 | 129 | 7.5 | 20 | |
| Bromochioromethane | 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 | |
| Chiorobenzene | 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 | u g /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 5.1 1,2-Dichloropropane 5.2 | | ug/L | 0.50 | 102 | 79 75 | 143 | 9.8 | 20 | |
| • • | | ug/L | 0.50 | 105 | 75 74 | 126 | 6.3 | 20 | |
| 1,3-Dichloropropane | 4.64 | ug/L | 0.50 | 93 | 71 | 136 | 9.0 | 20 | |
| 2,2-Dichloropropane | 3.96 | ug/L | 0.50 | 79 | 68 | 142 | 9.6 | 20 | |
| 1,1-Dichloropropene | 4.44 | ug/L | 0.50 | 89 | 70 | 131 | 9.4 | 20 | |
| cis-1,3-Dichloropropene | 4.40 | ug/L | 0.50 | 88 | 74 | 135 | 7.5 | 20 | |
| trans-1,3-Dichloropropene | 4.24 | ug/L | 0.50 | 85 | 76 | 149 | 6.6 | 20 | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

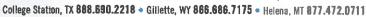
Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

| Analyte | Result U | nits RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|-------------------|--------------|------|-----------|-------------|-----|----------|-----------|
| Method: E624 | | | | | | | Batch: | R275391 |
| Lab ID: b17021110-001bmsd | Sample Matrix Spi | ke Duplicate | | Run: 5971 | A.I_170224A | | 02/24 | /17 18:50 |
| Ethylbenzene | 5.00 սջ | J/L 0.50 | 100 | 72 | 130 | 7.5 | 20 | |
| Methyl tert-butyl ether (MTBE) | 3.83 სე | J/L 0.50 | 77 | 72 | 120 | 5.5 | 20 | |
| Methyl ethyl ketone | 46.0 ug | J/L 20 | 92 | 45 | 130 | 3.5 | 20 | |
| Methyl isobutyl ketone | 51.2 ևջ | J/L 20 | 102 | 58 | 135 | 0.0 | 20 | |
| Methylene chloride | 5.72 ug | 1/L 0.50 | 114 | 66 | 142 | 5.0 | 20 | |
| Naphthalene | 5.56 นรู | J/L 0.50 | 111 | 69 | 124 | 14 | 20 | |
| Styrene | 4.84 կջ | J/L 0.50 | 97 | 80 | 124 | 6.0 | 20 | |
| Tetrachloroethene | 4.72 ug | y/L 0.50 | 94 | 72 | 131 | 6.1 | 20 | |
| 1,1,1,2-Tetrachioroethane | 4.20 ug | /L 0.50 | 84 | 78 | 124 | 6.1 | 20 | |
| 1,1,2,2-Tetrachloroethane | 5.20 นอ | /L 0.50 | 104 | 68 | 137 | 6.3 | 20 | |
| Toluene | 5.12 սջ | /L 0.50 | 102 | 72 | 135 | 4.8 | 20 | |
| Trichloroethene | 4.80 ug | /L 0.50 | 96 | 85 | 126 | 5.1 | 20 | |
| 1,1,1-Trichloroethane | 3.94 ug | /L 0.50 | 79 | 63 | 120 | 12 | 20 | |
| 1,1,2-Trichloroethane | 4.76 ug | /L 0.50 | 95 | 78 | 124 | 5.2 | 20 | |
| Trichlorofluoromethane | 3.36 სე | /L 0.50 | 67 | 72 | 120 | 2.3 | 20 | S |
| 1,2,3-Trichloropropane | 4.20 ug | /L 0.50 | 84 | 64 | 138 | 7.4 | 20 | |
| Vinyl Acetate | 4.20 ug | /L 1.0 | 84 | 31 | 124 | 4.9 | 20 | |
| Vinyl chloride | 5.08 นธ | /L 0.50 | 102 | 58 | 140 | 8.0 | 20 | |
| m+p-Xylenes | 9.92 ug | /L 0.50 | 99 | 67 | 139 | 6.2 | 20 | |
| o-Xylene | 4.80 ug | /L 0.50 | 96 | 74 | 135 | 7.8 | 20 | |
| Xylenes, Total | 14.7 ug | /L 0.50 | 98 | 70 | 137 | | | |
| Surr: 1,2-Dichloroethane-d4 | | 0.50 | 81 | 71 | 139 | | | |
| Surr: p-Bromofluorobenzene | | 0.50 | 94 | 80 | 127 | | | |
| Surr: Toluene-d8 | | 0.50 | 100 | 80 | 123 | | | |



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170217005 LFH-1 CO-0121724

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

| Analyte | Result | Units | RL | %REC Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------|--------------|---------------|----|----------------|-----------------|-----|----------|-----------|
| Method: E625 | . " | | | | | | Batch | n: 107004 |
| Lab ID: MB-107004 | Method Blank | | | Run: SV59 | 373N2.I_170227E | 3 | 02/27 | /17 18:24 |
| Acenaphthene | ND | ug/L | 10 | | <u>-</u> | | | |
| Acenaphthylene | ND | ug/L | 10 | | | | | |
| Anthracene | ND | ug/L | 10 | | | | | |
| Azobenzene | ND | ug/L | 10 | | | | | |
| Benzo(a)anthracene | ND | ug/L | 10 | | | | | |
| Benzo(a)pyrene | ND | ug/L | 10 | | | | | |
| Benzo(b)fluoranthene | ND | ug/L | 10 | | | | | |
| Benzo(g,h,i)perylene | ND | ug/L | 10 | | | | | |
| Benzo(k)fluoranthene | ND | ug/L | 10 | | | | | |
| 4-Bromophenyl phenyl ether | ND | ug/L | 10 | | | | | |
| Butylbenzylphthalate | ND | ug/L | 10 | | | | | |
| 4-Chloro-3-methylphenol | ND | ug/L | 10 | | | | | |
| bis(-2-chloroethoxy)Methane | ND | ug/L | 10 | | | | | |
| bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| bis(2-chloroisopropyl)Ether | ND | ug/L | 10 | | | | | |
| 2-Chloronaphthalene | ND | ug/L | 10 | | | | | |
| 2-Chlorophenol | ND | ug/L | 10 | | | | | |
| 4-Chlorophenyl phenyl ether | ND | u g /L | 10 | | | | | |
| Chrysene | ND | ug/L | 10 | | | | | |
| Diethyl phthalate | ND | ug/L | 10 | | | | | |
| Di-n-butyl phthalate | ND | ug/L | 10 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/L | 10 | | | | | |
| 1,3-Dichlorobenzene | ND | ug/L | 10 | | | | | |
| 1,4-Dichtorobenzene | ND | u g /L | 10 | | | | | |
| 3,3'-Dichiorobenzidine | ND | ug/L | 10 | | | | | |
| 2,4-Dichiarophenol | ND | ug/L | 10 | | | | | |
| Dimethyl phthalate | ND | ug/L | 10 | | | | | |
| Di-n-octyl phthalate | ND | ug/L | 10 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/L | 10 | | | | | |
| 2,4-Dimethylphenol | ND | ug/L | 10 | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | 50 | | | | | |
| 2,4-Dinitrophenol | ND | ug/L | 50 | | | | | |
| 2,4-Dinitrotoluene | ND | ug/L | 10 | | | | | |
| 2,6-Dinitrotoluene | ND | ug/L | 10 | | | | | |
| bis(2-ethylhexyl)Phthalate | ND | ug/L | 10 | | | | | |
| Fluoranthene | ND | ug/L | 10 | | | | | |
| Fluorene | ND | ug/L | 10 | | | | | |
| Hexachlorobenzene | ND | ug/L | 10 | | | | | |
| Hexachlorobutadiene | ND | ug/L | 10 | | | | | |
| Hexachlorocyclopentadiene | ND | ug/L | 10 | | | | | |
| Hexachioroethane | ND | ug/L | 10 | | | | | |
| Indeno(1,2.3-cd)pyrene | ND | ug/L | 10 | | | | | |
| Isophorone | ND | ug/L | 10 | | | | | |

Qualiflers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

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

| Analyte | Result U | Jnits . | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|---|-------------------|------------|----------|----------|-----------|------------------------|-----|----------|----------|
| Method: E625 | | | | | | | | Batch | : 107004 |
| Lab ID: MB-107004 | Method Blank | | | | Run: SV59 | 73N2.I_170227B | | 02/27/ | 17 18:24 |
| n-Nitrosodimethylamine | ND u | ıg/L | 10 | | | | | | |
| n-Nitroso-di-n-propylamine | ND t | ıg/L | 10 | | | | | | |
| n-Nitrosodiphenylamine | ND L | g/L | 10 | | | | | | |
| 2-Nitrophenol | ND L | g/L | 10 | | | | | | |
| 4-Nitrophenol | ND u | g/L | 50 | | | | | | |
| Naphthalene | ND u | g/L | 10 | | | | | | |
| Nitrobenzene | | g/L | 10 | | | | | | |
| Pentachlorophenol | | g/L | 50 | | | | | | |
| Phenanthrene | | g/L | 10 | | | | | | |
| Phenol | | g/L | 10 | | | | | | |
| Pyrene | | g/L | 10 | | | | | | |
| 1.2.4-Trichlorobenzene | | g/L | 10 | | | | | | |
| 2,4,6-Trichlorophenol | | g/L | 10 | | | | | | |
| Surr: 2-Fluorobiphenyl | | • | 10 | 55 | 28 | 107 | | | |
| Surr: 2-Fluorophenol | | | 10 | 36 | 20 | 56 | | | |
| Surr: Nitrobenzene-d5 | | | 10 | 58 | 32 | 94 | | | |
| Surr: Phenol-d5 | | | 10 | 35 | 19 | 45 | | | |
| Surr: Terphenyl-d14 | | | 10 | 77 | 32 | 122 | | | |
| Surr: 2,4,6-Tribromophenol | | | 10 | 58 | 21 | 130 | | | |
| Lab ID: LCS-107004 | Laboratory Contro | l Sample | | | Run: SV59 | 73N2.I_1 70227B | | 02/27/ | 17 18:55 |
| Acenaphthene | 81.2 u | g/L | 10 | 81 | 58 | 99 | | | |
| Acenaphthylene | 76.5 u | g/L | 10 | 77 | 57 | 96 | | | |
| Anthracene | 79.5 u | g/L | 10 | 80 | 60 | 107 | | | |
| Azobenzene | | g/L | 10 | 79 | 56 | 100 | | | |
| Benzo(a)anthracene | | g/L | 10 | 84 | 62 | 114 | | | |
| Benzo(a)pyrene | | g/L | 10 | 80 | 62 | 108 | | | |
| Benzo(b)fluoranthene | | g/L | 10 | 89 | 48 | 127 | | | |
| Benzo(g,h,i)perylene | | g/L | 10 | 82 | 62 | 121 | | | |
| Benzo(k)fluoranthene | | g/L | 10 | 79 | 55 | 111 | | | |
| 4-Bromophenyl phenyl ether | | g/L | 10 | 83 | 58 | 105 | | | |
| Butylbenzylphthalate | | g/L | 10 | 92 | 60 | 113 | | | |
| 4-Chloro-3-methylphenol | | g/L | 10 | 66 | 53 | 92 | | | |
| bls(-2-chloroethoxy)Methane | | g/L | 10 | 74 | 50 | 92 | | | |
| bis(-2-chloroethyl)Ether | | g/L | 10 | 63 | 44 | 82 | | | |
| bis(2-chioroisopropyl)Ether | | g/L | 10 | 61 | 56 | 87 | | | |
| 2-Chloronaphthalene | | g/L | 10 | 75 | 56 | 95 | | | |
| 2-Chlorophenol | | g/L | 10 | 60 | 47 | 76 | | | |
| 4-Chlorophenyl phenyl ether | | g/L | 10 | 76 | 58 | 99 | | | |
| | | g/L | 10 | 82 | 63 | 106 | | | |
| Chrysene | | e· — | | | | | | | |
| Chrysene Diethyl phthalate | | n/L | 10 | 79 | 58 | 103 | | | |
| Chrysene Diethyl phthalate Dl-n-butyl phthalate | 78.6 u | g/L g/L | 10 10 | 79 88 | 58 61 | 103 110 | | | |

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170217005 LFH-1 CO-0121724 Report Date: 03/02/17 Work Order: C17020566

Units Result RL %REC Low Limit High Limit Analyte RPD RPDLimit Qual Method: E625 Batch: 107004 Lab ID: LCS-107004 **Laboratory Control Sample** Run: SV5973N2.I_170227B 02/27/17 18:55 1,3-Dichlorobenzene 60.2 10 60 ug/L 41 78 1,4-Dichlorobenzene 61.4 ug/L 61 42 79 10 3,3'-Dichlorobenzidine 68.6 ug/L 69 51 93 10 2,4-Dichlorophenol 64.7 ug/L 10 65 49 90 Dimethyl phthalate 76.4 ug/L 10 76 58 104 88.3 Di-n-octyl phthalate ug/L 10 88 56 110 Dibenzo(a,h)anthracene 80.4 ug/L 10 80 61 111 2,4-Dimethylphenol 61.8 ug/L 10 62 45 89 48.2 4,6-Dinitro-2-methylphenol 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 83.8 Fluoranthene ug/L 10 84 63 110 Fluorene 77.4 ug/L 10 77 60 99 Hexachlorobenzene 78.2 ug/L 10 78 57 103 Hexachlorobutadiene 67.5 10 67 39 83 ug/L Hexachlorocyclopentadiene 68.4 ug/L 10 68 39 91 Hexachloroethane 59.6 10 60 ug/L 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 71.5 10 49 98 n-Nitroso-di-n-propylamine ug/L 71 n-Nitrosodiphenylamine 90.0 ug/L 10 90 61 108 68.0 51 2-Nitrophenol ug/L 10 68 96 4-Nitrophenol 18,3 ug/L 50 18 15 36 Naphthalene 71.6 10 72 48 ug/L 96 Nitrobenzene 65.0 ug/L 10 65 51 91 71 70.6 50 53 Pentachiorophenol ug/L 109 Phenanthrene 80.5 10 81 58 ug/L 104 35.4 10 35 27 Phenol ug/L 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 28 10 63 107

10

10

10

10

10

10

35

68

42

87

70

86

Qualifiers:

Acenaphthene

Lab ID:

RL - Analyte reporting limit.

Surr: 2-Fluorophenol

Surr: Nitrobenzene-d5

Surr: Terphenyl-d14

Surr: 2,4,6-Tribromophenol

B17021688-001CMS

Sample Matrix Spike

ug/L

86.4

Surr: Phenol-d5

ND - Not detected at the reporting limit.

20

32

19

32

21

58

Run: SV5973N2.I_170227B

56

94

45

122

130

99

02/27/17 20:29

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Report Date: 03/02/17 Project: 170217005 LFH-1 CO-0121724 Work Order: C17020566

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|---------------|-------------------|------------------|---------|----|------|-----------|----------------|-----|----------|------------|
| Method: | E625 | | | | | | | | Batc | h: 107004 |
| Lab ID: | B17021688-001CMS | Sample Matrix | k Spike | | | Run: SV59 | 73N2.i_170227B | | 02/27 | 7/17 20:29 |
| Acenaphth | ylene | 83.0 | ug/L | 10 | 83 | 57 | 96 | | | |
| Anthracene | ? | 86.4 | ug/L | 10 | 86 | 60 | 107 | | | |
| Azobenzen | e | 84.3 | ug/L | 10 | 84 | 56 | 100 | | | |
| Benzo(a)ar | nthracene | 90.3 | ug/L | 10 | 90 | 62 | 114 | | | |
| Benzo(a)py | /rene | 80.9 | ug/L | 10 | 81 | 62 | 108 | | | |
| Benzo(b)flu | ıoranthene | 80.4 | ug/L | 10 | 80 | 48 | 127 | | | |
| Benzo(g,h,i | i)peryiene | 80.5 | ug/L | 10 | 81 | 62 | 121 | | | |
| Benzo(k)flu | oranthene | 83.5 | ug/L | 10 | 83 | 55 | 111 | | | |
| 4-Bromoph | enyl phenyl ether | 80.4 | ug/L | 10 | 80 | 58 | 105 | | | |
| Butylbenzy | iphthalate | 99.7 | ug/L | 10 | 100 | 60 | 113 | | | |
| 4-Chioro-3- | -methylphenol | 77.0 | ug/L | 10 | 77 | 53 | 92 | | | |
| bis(-2-chlor | roethoxy)Methane | 77.3 | ug/L | 10 | 77 | 50 | 92 | | | |
| bls(-2-chlor | oethyl)Ether | 66.7 | ug/L | 10 | 67 | 44 | 82 | | | |
| bis(2-chlore | oisopropyi)Ether | 66.6 | ug/L | 10 | 67 | 56 | 87 | | | |
| 2-Chlorona | phthalene | 79.8 | ug/L | 10 | 80 | 56 | 95 | | | |
| 2-Chloroph | enol | 64.1 | ug/L | 10 | 64 | 47 | 76 | | | |
| 4-Chloroph | enyl phenyl ether | 84.5 | ug/L | 10 | 85 | 58 | 99 | | | |
| Chrysene | | 85.9 | ug/L | 10 | 86 | 63 | 106 | | | |
| Diethyl phth | halate | 85.4 | ug/L | 10 | 85 | 58 | 103 | | | |
| Di-n-butyl p | hthalate | 96.0 | ug/L | 10 | 96 | 61 | 110 | | | |
| 1,2-Dichlor | obenzene | 66.1 | ug/L | 10 | 66 | 43 | 81 | | | |
| 1,3-Dichlore | obenzene | 61.9 | ug/L | 10 | 62 | 41 | 79 | | | |
| 1,4-Dichlore | obenzene | 61.8 | ug/L | 10 | 62 | 42 | 79 | | | |
| 3,3'-Dichlor | robenzidine | 69.1 | ug/L | 10 | 69 | 51 | 93 | | | |
| 2,4-Dichlor | opheno! | 68.4 | ug/L | 10 | 68 | 49 | 90 | | | |
| Dimethyl ph | nthalate | 81.4 | ug/L | 10 | 81 | 58 | 104 | | | |
| Di-n-octyl p | hthalate | 90.6 | ug/L | 10 | 91 | 56 | 110 | | | |
| Dibenzo(a,i | h)anthracene | 80.0 | ug/L | 10 | 80 | 61 | 111 | | | |
| 2,4-Dimethy | ylphenol | 69.2 | ug/L | 10 | 69 | 45 | 87 | | | |
| 4,6-Dinitro- | 2-methylphenol | 58.9 | ug/L | 50 | 59 | 37 | 105 | | | |
| 2,4-Dinitrop | henol | 5 4.8 | ug/L | 50 | 55 | 27 | 81 | | | |
| 2,4-Dinitrote | oluene | 82.5 | ug/L | 10 | 83 | 63 | 110 | | | |
| 2,6-Dinitrote | cluene | 80.8 | ug/L | 10 | 81 | 60 | 107 | | | |
| bis(2-ethylh | exyl)Phthalate | 92.0 | ug/L | 10 | 92 | 56 | 108 | | | |
| Fluoranther | ne | 88.0 | ug/L | 10 | 88 | 63 | 110 | | | |
| Fluorene | | 80.1 | ug/L | 10 | 80 | 60 | 99 | | | |
| Hexachloro | benzene | 82.5 | ug/L | 10 | 83 | 57 | 103 | | | |
| Hexachioro | butadiene | 69.0 | ug/L | 10 | 69 | 39 | 83 | | | |
| Hexachloro | cyclopentadiene | 68.1 | ug/L | 10 | 68 | 39 | 91 | | | |
| Hexachioro | ethane | 65.6 | ug/L | 10 | 66 | 37 | 75 | | | |
| Indeno(1,2, | 3-cd)pyrene | 82.3 | ug/L | 10 | 82 | 59 | 109 | | | |
| Isophorone | ** * | 71.3 | ug/L | 10 | 71 | 42 | 102 | | | |
| | methylamine | 41.5 | ug/L | 10 | 41 | 20 | 45 | | | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

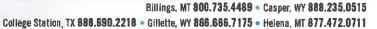
Report Date: 03/02/17
Work Order: C17020566

Project: 170217005 LFH-1 CO-0121724

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--|-------------------|---------------|----------|----------|-----------|----------------|-----|----------|-----------|
| Method: E625 | | · | | | | | | Batch | : 107004 |
| Lab ID: B17021688-00 | 1CMS Sample Matri | x Spike | | | Run: SV59 | 73N2.I_170227B | | 02/27/ | /17 20:29 |
| n-Nitroso-di-n-propylamine | 76.9 | u g/ L | 10 | 77 | 49 | 98 | | | |
| n-Nitrosodiphenylamine | 93.7 | ug/L | 10 | 94 | 61 | 108 | | | |
| 2-Nitrophenol | 69.9 | ug/L | 10 | 70 | 51 | 96 | | | |
| 4-Nitrophenol | 24.6 | ug/L | 50 | 25 | 15 | 36 | | | |
| Naphthalene | 76.0 | ug/L | 10 | 76 | 48 | 96 | | | |
| Nitrobenzene | 72.5 | ug/L | 10 | 73 | 51 | 91 | | | |
| Pentachlorophenol | 89.2 | ug/L | 50 | 89 | 53 | 109 | | | |
| Phenanthrene | 85.1 | ug/L | 10 | 85 | 58 | 104 | | | |
| Phenol | 36.7 | ug/L | 10 | 37 | 27 | 45 | | | |
| Pyrene | 89.8 | ug/L | 10 | 90 | 64 | 108 | | | |
| 1,2,4-Trichlorobenzene | 70.9 | ug/L | 10 | 71 | 49 | 85 | | | |
| 2,4,6-Trichlorophenol | 67.7 | ug/L | 10 | 68 | 47 | 99 | | | |
| Surr: 2-Fluorobiphenyl | | | 10 | 62 | 28 | 107 | | | |
| Surr: 2-Fluorophenol | | | 10 | 39 | 20 | 56 | | | |
| Surr: Nitrobenzene-d5 | | | 10 | 72 | 32 | 94 | | | |
| Surr: Phenol-d5 | | | 10 | 35 | 19 | 45 | | | |
| Surr: Terphenyl-d14 | | | 10 | 87 | 32 | 122 | | | |
| Surr: 2,4,6-Tribromopheno | ol . | | 10 | 75 | 21 | 130 | | | |
| Lab ID: B17021688-003 | • | - | | | | 73N2.I_170227B | | 02/27/ | 17 21:31 |
| Acenaphthene | 89.8 | ug/L | 10 | 90 | 58 | 99 | | | |
| Acenaphthylene | 82.2 | ug/L | 10 | 82 | 57 | 96 | | | |
| Anthracene | 73.2 | ug/L | 10 | 73 | 60 | 107 | | | |
| Azobenzene | 80.2 | ug/L | 10 | 80 | 56 | 100 | | | |
| Benzo(a)anthracene | 85.1 | ug/L | 10 | 85 | 62 | 114 | | | |
| Benzo(a)pyrene | 77.0 | ug/L | 10 | 77 | 62 | 108 | | | |
| Benzo(b)fluoranthene | 73.3 | ug/L | 10 | 73 | 48 | 127 | | | |
| Benzo(g,h,i)perylene | 78.5 | ug/L | 10 | 79 | 62 | 121 | | | |
| Benzo(k)fluoranthene | 83.1 | ug/L | 10 | 83 | 55 | 111 | | | |
| 4-Bromophenyl phenyl ether | 78.1 | ug/L | 10 | 78 | 58 | 105 | | | |
| Butylbenzylphthalate | 92.9 | ug/L | 10 | 93 | 60 | 113 | | | |
| 4-Chioro-3-methylphenol | 69.5 | ug/L | 10 | 69 | 53 | 92 | | | |
| bis(-2-chloroethoxy)Methane | 69.6 | ug/L | 10 | 70 | 50 | 92 | | | |
| bis(-2-chloroethyl)Ether | 58.4 | ug/L | 10 | 58 | 44 | 82 | | | |
| bis(2-chloroisopropyl)Ether | 57.7 | ug/L | 10 | 58 | 56 | 87 | | | |
| 2-Chloronaphthalene | 77.7 | ug/L | 10 | 78 | 56 | 95 | | | |
| 2-Chlorophenol | 56.6 | ug/L | 10 | 57 | 47 | 76 | | | |
| 4-Chlorophenyl phenyl ether | 82.9 | ug/L | 10 | 83 | 58 | 99 | | | |
| Chrysene | 82.0 | ug/L | 10 | 82 | 63 | 106 | | | |
| Diethyl phthalate | 80.2 | ug/L | 10 | 80 | 58 | 103 | | | |
| | 86.9 | ug/L | 10 | 87 | 61 | 110 | | | |
| Di-n-butyl phthalate | | - | | | | | | | |
| Di-n-butyl phthalate 1,2-Dichlorobenzene 1,3-Dichlorobenzene | 61.5 59.3 | ug/L ug/L | 10 10 | 62 59 | 43 41 | 81 79 | | | |

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

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

Project: 170217005 LFH-1 CO-0121724

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------|---------------|-------|----|------|-----------|----------------|-----|----------|------------|
| Method: E625 | | | · | | | | | Bato | h: 107004 |
| Lab ID: B17021688-003CMS | Sample Matrix | Spike | | | Run: SV59 | 73N2.I_170227B | | 02/27 | 7/17 21:31 |
| 1,4-Dichlorobenzene | 57.9 | ug/L | 10 | 58 | 42 | 79 | | | |
| 3,3'-Dichlorobenzidine | 52.9 | ug/L | 10 | 53 | 51 | 93 | | | |
| 2,4-Dichlorophenol | 61.5 | ug/L | 10 | 62 | 49 | 90 | | | |
| Dimethyl phthalate | 74.3 | ug/L | 10 | 74 | 58 | 104 | | | |
| Di-n-octyl phthalate | 82.5 | ug/L | 10 | 83 | 56 | 110 | | | |
| Dibenzo(a,h)anthracene | 75.9 | ug/L | 10 | 76 | 61 | 111 | | | |
| 2,4-Dimethylphenol | 60.0 | ug/L | 10 | 60 | 45 | 87 | | | |
| 4,6-Dinitro-2-methylphenol | 41.6 | ug/L | 50 | 42 | 37 | 105 | | | |
| 2,4-Dinitrophenol | 30.1 | ug/L | 50 | 30 | 27 | 81 | | | |
| 2,4-Dinitrotoluene | 86.9 | ug/L | 10 | 87 | 63 | 110 | | | |
| 2,6-Dinitrotoluene | 75.9 | ug/L | 10 | 76 | 60 | 107 | | | |
| bis(2-ethylhexyl)Phthalate | 81.5 | ug/L | 10 | 82 | 56 | 108 | | | |
| Fluoranthene | 82.0 | ug/L | 10 | 82 | 63 | 110 | | | |
| Fluorene | 81.9 | ug/L | 10 | 82 | 60 | 99 | | | |
| Hexachlorobenzene | 75.8 | ug/L | 10 | 76 | 57 | 103 | | | |
| Hexachlorobutadiene | 69.3 | ug/L | 10 | 69 | 39 | 83 | | | |
| Hexachlorocyclopentadiene | 69.5 | ug/L | 10 | 70 | 39 | 91 | | | |
| Hexachloroethane | 57.7 | ug/L | 10 | 58 | 37 | 75 | | | |
| Indeno(1,2,3-cd)pyrene | 73.4 | ug/L | 10 | 73 | 59 | 109 | | | |
| Isophorone | 68.4 | ug/L | 10 | 68 | 42 | 102 | | | |
| n-Nitrosodimethylamine | 27.8 | ug/L | 10 | 28 | 20 | 45 | | | |
| n-Nitroso-di-n-propylamine | 68.7 | ug/L | 10 | 69 | 49 | 98 | | | |
| n-Nitrosodiphenylamine | 84.0 | ug/L | 10 | 84 | 61 | 108 | | | |
| 2-Nitrophenol | 61.8 | ug/L | 10 | 62 | 51 | 96 | | | |
| 4-Nitrophenol | 27.7 | ug/L | 50 | 28 | 15 | 36 | | | |
| Naphthalene | 72.4 | ug/L | 10 | 72 | 48 | 96 | | | |
| Närobenzeле | 69.7 | ug/L | 10 | 70 | 51 | 91 | | | |
| Pentachlorophenol | 66.8 | ug/L | 50 | 67 | 53 | 109 | | | |
| Phenanthrene | 79.7 | ug/L | 10 | 80 | 58 | 104 | | | |
| Phenol | 33.9 | ug/L | 10 | 34 | 27 | 45 | | | |
| Pyrene | 81.2 | ug/L | 10 | 81 | 64 | 108 | | | |
| 1,2,4-Trichlorobenzene | 71.3 | ug/L | 10 | 71 | 49 | 85 | | | |
| 2,4,6-Trichlorophenol | 63.8 | ug/L | 10 | 64 | 47 | 99 | | | |
| Surr: 2-Fluorobiphenyl | | | 10 | 45 | 28 | 107 | | | |
| Surr: 2-Fluorophenol | | | 10 | 37 | 20 | 56 | | | |
| Surr: Nitrobenzene-d5 | | | 10 | 62 | 32 | 94 | | | |
| Surr: Phenol-d5 | | | 10 | 31 | 19 | 45 | | | |
| Surr: Terphenyl-d14 | | | 10 | 64 | 32 | 122 | | | |
| Surr: 2,4,6-Tribromophenol | | | 10 | 55 | 21 | 130 | | | |
| Lab ID: MB-107004 | Method Blank | | | | Run: SV59 | 73N2.I_170228A | | 02/28 | /17 12:11 |
| Benzidine | ND | ug/L | 10 | | | _ | | | |
| | | | | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

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

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170217005 LFH-1 CO-0121724 Report Date: 03/02/17
Work Order: C17020566

| Analyte | | Result Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------|------------------|--|----|------|-----------------|-----------------------|-----|----------|-----------|
| Method: | E825 | | | | | | | Batcl | h: 107004 |
| Lab ID: Benzidine | LCS-107004 | Laboratory Control Sample 63.4 ug/L | 10 | 63 | Run: SV59 10 | 73N2.I_170228A 100 | | 02/28 | /17 12:42 |
| Lab ID: Benzidine | B17021688-001CMS | Sample Matrix Spike 25.8 ug/L | 20 | 26 | Run: SV59 10 | 73N2.I_170228A 100 | | 02/28 | /17 14:16 |
| Lab ID: Benzidine | B17021688-003CMS | Sample Matrix Spike 28.5 ug/L | 20 | 28 | Run: SV59 10 | 73N2.l_170228A 100 | | 02/28 | /17 15:18 |

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170217005 LFH-1 CO-0121724 Report Date: 03/02/17

Work Order: C17020566

| CV_2 Continuing Ca 75.7 75.2 78.7 79.8 78.0 78.0 78.6 75.3 73.2 74.4 84.4 77.2 98 79.4 80.8 77.8 70.3 80.3 72.9 | alibration Verifug/Lug/Lug/Lug/Lug/Lug/Lug/Lug/Lug/Lug/L | 10 10 10 10 10 10 10 10 10 10 10 10 | 101 100 105 106 104 104 105 100 98 99 113 103 106 108 | 80 80 80 80 80 80 80 80 80 | 120 120 120 120 120 120 120 120 120 120 | An | nalytical Run: 02/27 | R275528 /17 15:18 |
|--|--|---|---|--|---|---|---|--|
| 75.7 75.2 78.7 79.8 78.0 78.0 78.6 75.3 73.2 74.4 84.4 77.2 89.8 77.8 70.3 80.3 72.9 | ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 10 10 10 10 10 | 101 100 105 106 104 104 105 100 98 99 113 103 106 108 | 80 80 80 80 80 80 80 80 80 | 120 120 120 120 120 120 120 120 120 | | 02/27 | /17 15:18 |
| 75.7 75.2 78.7 79.8 78.0 78.0 78.6 75.3 73.2 74.4 84.4 77.2 86 79.4 80.8 77.8 70.3 80.3 72.9 | ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 10 10 10 10 10 | 100 105 106 104 104 105 100 98 99 113 103 106 108 | 80 80 80 80 80 80 80 80 80 | 120 120 120 120 120 120 120 120 120 | | | |
| 78.7 79.8 78.0 78.0 78.6 75.3 73.2 97 74.4 84.4 77.2 98 79.4 80.8 77.8 70.3 80.3 72.9 | ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 10 10 10 10 | 105 106 104 104 105 100 98 99 113 103 106 108 | 80 80 80 80 80 80 80 80 | 120 120 120 120 120 120 120 120 120 | | | |
| 79.8 78.0 78.0 78.6 75.3 73.2 87 74.4 84.4 77.2 89 80.8 77.8 70.3 80.3 87.9 | ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 10 10 10 10 | 106 104 104 105 100 98 99 113 103 106 108 | 80 80 80 80 80 80 80 80 | 120 120 120 120 120 120 120 120 | | | |
| 78.0 78.0 78.6 75.3 73.2 74.4 84.4 77.2 9.4 80.8 77.8 70.3 80.3 72.9 | ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 10 10 10 | 104 105 100 98 99 113 103 106 108 | 80 80 80 80 80 80 80 | 120 120 120 120 120 120 120 | | | |
| 78.0 78.6 75.3 73.2 74.4 84.4 77.2 9.4 80.8 77.8 70.3 80.3 72.9 | ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 10 10 10 | 104 105 100 98 99 113 103 106 108 | 80 80 80 80 80 80 | 120 120 120 120 120 120 | | | |
| 78.6 75.3 73.2 74.4 84.4 77.2 80.8 77.8 70.3 80.3 72.9 | ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 10 10 | 105 100 98 99 113 103 106 108 | 80 80 80 80 80 80 | 120 120 120 120 120 120 | | | |
| 75.3 73.2 74.4 84.4 77.2 8e 79.4 80.8 77.8 70.3 80.3 9r 72.9 | ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 10 10 | 100 98 99 113 103 106 108 | 80 80 80 80 80 | 120 120 120 120 120 | | | |
| 73.2 74.4 84.4 77.2 80.8 77.8 70.3 80.3 87.9 | ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 10 | 98 99 113 103 106 108 | 80 80 80 80 | 120 120 120 120 | | | |
| 74.4 84.4 77.2 98.8 77.8 70.3 80.3 97.9 | ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 | 99 113 103 106 108 | 80 80 80 80 | 120 120 120 | | | |
| 84.4 77.2 79.4 80.8 77.8 70.3 80.3 87.3 | ug/L ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 10 | 113 103 106 108 | 80 80 80 | 120 120 | | | |
| 84.4 77.2 79.4 80.8 77.8 70.3 80.3 87.3 | ug/L ug/L ug/L ug/L ug/L | 10 10 10 10 | 103 106 108 | 80 80 | 120 | | | |
| 79.4 80.8 77.5 70.3 80.3 87 | ug/L ug/L ug/L ug/L | 10 10 10 | 106 108 | 80 | | | | |
| 80.8 77.8 70.3 80.3 er 72.9 | ug/L ug/L ug/L ug/L | 10 10 | 108 | | 120 | | | |
| 80.8 77.8 70.3 80.3 r 72.9 | ug/L ug/L ug/L | 10 | | | | | | |
| 70.3 80.3 r 72. 9 | ug/L ug/L | | 104 | 80 | 120 | | | |
| 70.3 80.3 r 72. 9 | ug/L | 10 | 104 | 80 | 120 | | | |
| r 72.9 | | | 94 | 80 | 120 | | | |
| | | 10 | 107 | 80 | 120 | | | |
| | ug/L | 10 | 97 | 80 | 120 | | | |
| 75.0 | ug/L | 10 | 100 | 80 | 120 | | | |
| 75.7 | ug/L | 10 | 101 | 80 | 120 | | | |
| 81.6 | ug/L | 10 | 109 | 80 | 120 | | | |
| 72.7 | ug/L | 10 | 97 | 80 | 120 | | | |
| 77.8 | ug/L | 10 | 104 | 80 | 120 | | | |
| 74.9 | ug/L | 10 | 100 | 80 | 120 | | | |
| 75,8 | ug/L | 10 | 101 | 80 | 120 | | | |
| 74.8 | ug/L | 10 | 100 | 80 | 120 | | | |
| 75.3 | ug/L | 10 | 100 | 80 | 120 | | | |
| 83.5 | ug/L | 10 | 111 | 80 | 120 | | | |
| 74.8 | ug/L | 10 | 100 | 80 | 120 | | | |
| 73.0 | ug/L | 10 | 97 | 80 | 120 | | | |
| 71.3 | ug/L | 50 | 95 | 80 | 120 | | | |
| 69.4 | - | | 93 | | | | | |
| 79.4 | _ | | 106 | | | | | |
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| | - | | | | | | | |
| | _ | | | | | | | |
| € | | 69.4 ug/L 79.4 ug/L 79.4 ug/L 78.1 ug/L 84.4 ug/L 76.0 ug/L 77.8 ug/L 73.8 ug/L 71.9 ug/L 73.1 ug/L 77.6 ug/L 77.6 ug/L 75.6 ug/L | 69.4 ug/L 50 79.4 ug/L 10 78.1 ug/L 10 84.4 ug/L 10 76.0 ug/L 10 77.8 ug/L 10 73.8 ug/L 10 71.9 ug/L 10 73.1 ug/L 10 77.6 ug/L 10 77.6 ug/L 10 75.6 ug/L 10 | 69.4 ug/L 50 93 79.4 ug/L 10 106 78.1 ug/L 10 104 84.4 ug/L 10 112 76.0 ug/L 10 101 77.8 ug/L 10 104 73.8 ug/L 10 98 71.9 ug/L 10 96 73.1 ug/L 10 97 77.6 ug/L 10 103 75.6 ug/L 10 101 | 69.4 ug/L 50 93 80 79.4 ug/L 10 106 80 78.1 ug/L 10 104 80 84.4 ug/L 10 112 80 76.0 ug/L 10 101 80 77.8 ug/L 10 104 80 73.8 ug/L 10 98 80 71.9 ug/L 10 96 80 77.6 ug/L 10 97 80 77.6 ug/L 10 103 80 75.6 ug/L 10 101 80 | 69.4 ug/L 50 93 80 120 79.4 ug/L 10 106 80 120 78.1 ug/L 10 104 80 120 84.4 ug/L 10 112 80 120 76.0 ug/L 10 101 80 120 77.8 ug/L 10 104 80 120 73.8 ug/L 10 98 80 120 71.9 ug/L 10 96 80 120 77.6 ug/L 10 97 80 120 77.6 ug/L 10 103 80 120 75.6 ug/L 10 101 80 120 | 69.4 ug/L 50 93 80 120 79.4 ug/L 10 106 80 120 78.1 ug/L 10 104 80 120 84.4 ug/L 10 112 80 120 76.0 ug/L 10 101 80 120 77.8 ug/L 10 104 80 120 73.8 ug/L 10 98 80 120 71.9 ug/L 10 96 80 120 77.6 ug/L 10 97 60 120 77.6 ug/L 10 103 80 120 75.6 ug/L 10 103 80 120 75.6 ug/L 10 101 80 120 | 69.4 ug/L 50 93 80 120 79.4 ug/L 10 106 80 120 78.1 ug/L 10 104 80 120 84.4 ug/L 10 112 80 120 76.0 ug/L 10 101 80 120 77.8 ug/L 10 104 80 120 73.8 ug/L 10 98 80 120 71.9 ug/L 10 96 80 120 77.6 ug/L 10 103 80 120 77.6 ug/L 10 103 80 120 75.6 ug/L 10 101 80 120 |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17

Work Order: C17020566

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD RI | PDLimit | Qual |
|----------------------------|---------------|------------------|---------------|------|-----------|------------|--------|------------|------------|
| Method: E625 | | | | | | | Analy | tical Run: | R27552 |
| Lab ID: 27-Feb-17_CCV_2 | Continuing Ca | libration Vertfi | cation Standa | ırd | | | | 02/27 | 7/17 15:18 |
| n-Nitrosodimethylamine | 75.3 | ug/L | 10 | 100 | 80 | 120 | | | |
| n-Nitroso-di-n-propylamine | 77.8 | ug/L | 10 | 104 | 80 | 120 | | | |
| n-Nitrosodiphenylamine | 78.9 | ug/L | 10 | 105 | 80 | 120 | | | |
| 2-Nitrophenol | 75.8 | ug/L | 10 | 101 | 80 | 120 | | | |
| 4-Nitrophenol | 69.6 | ug/L | 50 | 93 | 80 | 120 | | | |
| Naphthalene | 79.8 | ug/L | 10 | 106 | 80 | 120 | | | |
| Nitrobenzene | 76.8 | ug/L | 10 | 102 | 80 | 120 | | | |
| Pentachiorophenol | 73.3 | ug/L | 50 | 98 | 80 | 120 | | | |
| Phenanthrene | 74.0 | ug/L | 10 | 99 | 80 | 120 | | | |
| Phenoi | 79.2 | ug/L | 10 | 106 | 80 | 120 | | | |
| Pyrene | 75.2 | ug/L | 10 | 100 | 80 | 120 | | | |
| 1,2,4-Trichlorobenzene | 72.8 | ug/L | 10 | 97 | 80 | 120 | | | |
| 2,4,6-Trichlorophenol | 73.6 | ug/L | 10 | 98 | 80 | 120 | | | |
| Surr: 2-Fluorobiphenyi | | | 10 | 100 | 80 | 120 | | | |
| Surr: 2-Fluorophenol | | | 10 | 113 | 80 | 120 | | | |
| Surr: Nitrobenzene-d5 | | | 10 | 105 | 80 | 120 | | | |
| Surr: Phenol-d5 | | | 10 | 121 | 80 | 120 | | | S |
| Surr: Terphenyl-d14 | | | 10 | 101 | 80 | 120 | | | |
| Surr: 2,4,6-Tribromophenol | | | 10 | 102 | 80 | 120 | | | |
| Method: E625 | | | | | | | Analy | tical Run: | R275577 |
| Lab ID: 28-Feb-17_CCV_2 | Continuing Ca | libration Verifi | cation Standa | rd | | | | 02/28 | /17 11:39 |
| Benzidine | 89.5 | ug/L | 10 | 119 | 80 | 120 | | | |

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc **Project:** 170217005 LFH-1 CO-0121724

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

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-------------|-------------------|----------------|-----------------------|-----------|------|-----------|----------------|-----|----------------|------------------|
| Method: | SW8260M | | | | | | | - | Analytical Rur | n: 107003 |
| Lab ID: | CCV-107003 | Continuing Cal | ibration Verification | on Standa | ırd | | | | | /17 08:30 |
| 1,4-Dioxane | | 105 | ug/L | 1.0 | 105 | 80 | 120 | | GE/E/ | 711 00.00 |
| Method: | SW8260M | | | | | | | | Batch | n: 107003 |
| Lab ID: | LCS-107003 | Laboratory Cor | ntrol Sample | | | Run: VOA5 | 973A.I_170227A | | 02/27 | /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 11:3 7 |
| 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 | |

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc C17020566

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

Standard Reporting Procedures:

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

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

Contact and Corrective Action Comments:

None

Chain of Custody Form

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

| Colorado Analytical | 240 South Main Street Brighton, CO 80601 |
|---------------------|---|
|---------------------|---|

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

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

| 1 1940 CUE | | | | | | | | Senis Present Yes II No FEO | Received By: Date/Time: | 12000 Julius 2/21/17 1150 |
|--|--|--|--|--|--|--|---|-----------------------------|--------------------------|---------------------------|
| | 625 SOCs 1,4 Dioxane | | | | | | | | CS Charge Date/Time: | - { |
| | No. of Containers Grab or (Check One Only) Composite Composite | \[\textsquare \te | | | | | | | Relinguished By: | |
| | Water | | | | | | C/K Tudos | | Deliver | |
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Inorganic Chemicals Certified Laboratory Report Form

Revised 6/13/2014

| Odinado Departement of Peditic Fleath, and Envisorment | | 430(Fa | WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO Fax: (303) 758-1398; cdphe.drinkingwater@ | WQCD - Drinking Water CAS 300 Cherry Creek Drive South, Denver, CO 80246-1530 Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us | | | | IOC |
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| | Section I (Supplied | Section I (Supplied or Completed by Public Water System) Public Water System Information | ic Water System) | Section JI (Supplied | Section II (Supplied or Completed by Certified Laboratory) | rified La | horatory) | |
| PWSID#: C00121724 | | | | Laboratory ID: CO 0015 | Cel tinet trabel attity timefiliation | Папоп | | |
| System Name: | System Name: Sterling Ranch MD | (I) | | Laboratory Name: Colorado Analytical Laboratory | lytical Laboratory | | ļ. | |
| Contact Person: Mark Volle | 1: Mark Volle | | Phone #: 719-227-0072 | Contact Person: Customer Service | | Phone: 303-659-2313 | 2313 | |
| Comments: | | | Do Samples Need to be Composited BY THE LAB? | Coroments: | | | | |
| | | | | | | | | |
| | | | Section III (Supplied or Comp | I (Supplied or Completed by Public Water System) | | | | |
| Sample Date: 3/23/17 | | Collector: Stephanie Schwe Facility [] | e Facility ID (On Schedule): New Well | | Sample Pt ID (On Schedule): | New Well | ell | |
| | | Se | ection IV Inorganic Chemicals (C | Section IV Inorganic Chemicals (Completed by Certified Laboratory) | | | | |
| Lab Receipt Date | Lab Analysis Date | Lab Sample ID | Analyte Name | CAS No. | Analytical Method | MCL (me/l.) | Lab MRI. | Result |
| 3/24/17 | 3/24/17 | 170324007-01 | Fluoride | 7681-49-4 | | 4 | 0.09 | 1.22 |
| | | | | | | | - | - |

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

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

4/21/17 170324007-01 1/1

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

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

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System Name:
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Address: State ZipSUPUZ page 2012 Email: MVDILE JASHYDro, Com Email: JMONTER 3870@ast.com Compliance Samples: Yes 1000 Send Forms to State: Yes No. 18 State Form / Project Information County: El Passo 5 City Address: 20 Boulder Cresent CINCOLSER SINICOZIN 20103 Bill To Information (If different from report to) Contact Name: Jim Worley Company Name: 305-144dre Consultants Company Name: SR Walter Sampler Name: - ACTION SAMPLE NO. SAMPLE NO. SAMPLE NO. Phone: Starle 21p 80963 Addressiyo E. Piks Peak Ave Contact Name: Mark Volle Suite 200 Phone: 119-327-0073 Report To Information City (5

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

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

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

Revised 4/13/2015

IOC

| S | ection I (Sumplied | Section I (Sumplied or Completed by Public Water System) | c Water System) | Section II (S | Section II (Supplied or Completed by Certified Laboratory) | v Certified I | aboratory | |
|----------------------------|--------------------------------|--|---|---|--|---------------------|-----------|---------------|
| | Public | Public Water System Information | ation | | Certified Laboratory Information | Information | | |
| PWSID#: C00121724 | | | | Laboratory ID: CO 0015 | | | | |
| System Name: | System Name: Sterling Ranch MD | 01 | | Laboratory Name: Colorado Analytical Laboratory | lo Analytical Laborato | ry | | |
| Contact Person: Mark Volle | : Mark Volle | | Phone #: | Contact Person: Customer Service | | Phone: 303-659-2313 | 9-2313 | |
| Comments: | | | Do Samples Need to be Composited BY THE LAB? | Comments; | | : | | |
| | | | | ; | | | | |
| | | | Section III (Supplied or Comp | I (Supplied or Completed by Public Water System) | 1) | | | |
| Sample Date: 3/23/17 | | Collector: Stephanie Schwe Facility J | | Vew Well Sau | Sample Pt ID (On Schedule): | de): New Well | Well | |
| | | Sec | Section IV Inorganic Chemicals (C | organic Chemicals (Completed by Certified Laboratory) | atory) | | | |
| Lab Receipt Date | Lab Analysis Date | Lab Sample ID | Analyte Name | CAS No. | Analytical | MCI. | Lab MRI. | Result (mu/I) |
| 3/24/17 | 3/29/17 | 170324007-01A | Antimony | 7740-36-0 | F.PA 200.8 | 0.006 | 0.001 | BDI. |
| 3/24/17 | 3/29/17 | 170324007-01A | Arsenic | 7440-38-2 | EPA 200.8 | 10.01 | 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 | Beryllíum | 7440-41-7 | EPA 200.8 | 0.004 | 0.001 | BDL |
| 3/24/17 | 3/29/17 | 170324007-01A | Cadmium | 7440-43-9 | EPA 200.8 | 0.005 | 0.001 | BDL |
| 3/24/17 | 3/29/17 | 170324007-01A | Chromium | 7440-47-3 | EPA 200.8 | 0.1 | 0.001 | BDL |
| 3/24/17 | 3/29/17 | 170324007-01A | Mercury | 7439-97-6 | EPA 200.8 | 0.002 | 0.0001 | BDL |
| 3/24/17 | 3/29/17 | 170324007-01A | Nickel | 7440-02-0 | EPA 200.8 | N/A | 0.001 | 0.001 |
| 3/24/17 | 3/29/17 | 170324007-01A | Selenium | 7782-49-2 | EPA 200.8 | 0.05 | 0.001 | BDL |
| 3/24/17 | 3/30/17 | 170324007-01A | Sodium | 7440-23-5 | EPA 200.7 | N/A | 0.1 | 52.8 |
| 3/24/17 | 3/29/17 | 170324007-01A | Thallium | 7440-28-0 | EPA 200,8 | 0.002 | 0.001 | BDL |
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mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

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

4/21/17

170324007-01A

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page lot 2

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

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| Colorado Analytical | LABORATORIES, INC. |
|------------------------|--------------------|
| 6. | - |

240 South Main Street Brighton, CO 80601 Brighton Lab

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

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

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Contact Name: Mark VONE

Report To Information

Colorado
Analytical
LABORATOHIES. INC.

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

Lakewood Lab

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

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City (5

Phone: 119-327-00-73

Suite 300

www.coloradolab.com

Compliance Samples: Yes 17 No 🗌

Email: MVolle@jdshydre, Com Email: morter 3870 Cast.com

Sampler Name: KONGINE SCHUSENKE PO No.

County: El Paso

Send Forms to State: Yes No. D.

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Analytical Results

TASK NO: 170324007

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

Bill To: Jim Morley

Company: SR Water 20 Boulder Crescent St.

Colorado Springs CO 80903

Task No.: 170324007

Client PO:

Client Project: Sterling Ranch MD C00121724

Date Received: 3/24/17

Date Reported: 4/21/17

Matrix: Water - Drinking

Customer Sample ID Sterling Ranch MD

Sample Date/Time: 3/23/17

8:03 AM

Lab Number: 170324007-01

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

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

page lot 2

State Co Zip & CROS Address:

20 BOULDES CRESCEIN 20 BOULDER CRESCEIN STERVENCE RANCH MD Compliance Samples: Yes K No Send Forms to State: Yes | No Es State Form / Project Information PWSID: CO OIQ1424 System Name: County: El Paso City COLO 2019 (11) Email: Mys/ka/ jashuda com Email: jmortey 3870@aol.com City SPACE JCS. State Cozzp 8080 \$ Bill To Information (If different from report to) Contact Name: STM MORLEY Company Name: J DS-Hedro Censellants Company Name: 5R WATER Sampler Name: Stechante Schwenke PONG. Phone: Addresig E. Phies Pack Aug (3 Sandazap 80963 Contract Name: Mark Valle Suite 300 Phone: 119-337-0079ax. Report To Information City

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

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

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

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

Revised 4/13/2015
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| | Section 1 | Section I (Supplied or Completed by Public Water System) | ted by Public W | ater System | | | Section II (S | Section II (Supplied or Completed by Certified Laboratory) | pleted by Cert | tified Labo | oratory) | |
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| | | Public Water System Information | em Informatio | u | | | | Certified Laboratory Information | atory Inform | lation | | |
| PWSID | PWSID#: C00121724 | | | | | Laborator | Laboratory ID: CO 0015 | | | | | |
| System | System Name: Sterling Ranch MD | 3 Ranch MD | | | | Laborator | Laboratory Name: Colorado Analytical Laboratory | do Analytical La | aboratory | | | |
| Contact | Contact Person: Mark Volle | Volle | I | Phone #: 719 | 719-227-0072 | Contact P | Contact Person: Customer Service | r Service | Phone: 3 | Phone: 303-659-2313 | 113 | |
| Comments: | nts: | | | | | Comments: | its: | | | | | |
| Se | ction III (Suppl | Section III (Supplied or Completed by Public Water System) | Public Water Sy | stem) | | Sect | Section IV (Supplied or Completed by Certified Laboratory) | or Completed b | y Certified La | aboratory) | | |
| Sample Date | Collector | Facility ID On Schedule | Sample Pt ID On Schedule | Confirmation? | Lab Receipt Date | Lab Analysis Date | Laboratory Sample ID # | Analyte | Analytical Method | MCL (mg/L) | Lab MRI. | Result (mg/L) |
| 3/23/17 | 3/23/17 cephanie Schwenk | New Well | New Well | | 3/24/17 | 3/24/17 | 170324007-01 | Nitrate Nitrogen | EPA 300.0 | | 0.1 | BDL |
| 3/23/17 | 3/23/17 tephanic Schwenk New Well | New Well | New Well | | 3/24/17 | 3/24/17 | 170324007-01 | Nitrite Nitrogen | EPA 300.0 | - | 0.1 | BDL |

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

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

4/21/17 170324007-01 1/1 Report To In Company Na Contact Na Addressit Emall: C Sampler Na

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| ustody page lot 2 | to) State Form / Project Information | Payern. | - jø: | STERVENC | EA CRESCENT 20 BOWDER CRESCANT | | Ì | County: El Paso | COM Compliance Samples: Yes K No | Send Forms to State: Yes No 12 |
| Drinking Water Chain of Custody | Bill To Information (If different from report to) | Company Name: SR WATER | Contact Name: JEM MORLEY | | Address: 20 BOUDER CRE | | City Space Cozin 8080 5 | Phone: Fax: | Email: imortey 38 70 (20) | PO No.: |
| | o Information | y Name: J DS-Hedre Caroultaris Company Name: 5R WATER | Name: Mark Tolle | | And | Sulk Ser | CS serie (OZID 809/03 | 19-337-0074m; | Mys 16@ joshydre Com Emell: imortey 38 to ad , com | Name: Stechante Schwenke PONO. |

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Address: City (S Smith ZipSU9)3 page 2012 Compliance Samples: Yes V No Send Forms to State: Yes No. DE State Form / Project Information County: El Poso Email: MVolle@jdshydre, con Email: jmortey 3870@ast.com Address: 20 Benjaler Cresent CIDCASAD SIGILO ZIP 20103 Bill To Information (If different from report to) Company Name: JB-Hydre Carsultants Company Name: SR Waster Contact Name: Jim Worley Sampler Name: ACONGINE SCHUSENKE PO No. Phone: Addersiyo E. P. Kos Park Ave Suite 200 Contact Name: Mark Volle Phone: 119-327-0073 Report To Information City (.5

Colorado Analytical

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

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

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

Revised 4/13/2015

VOC/SOC

| Section I (Surplied or Completed by Public Water System) Public Water System Information | ic Water System) | Section J. (Sumble Certif | Section II (Sumplied or Completed by Certified Laboratory) Certified Laboratory Information | ertified L | aboratory) | |
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| | | Laboratory ID: CO 00063 | Turney I very transfer of the second | | | |
| System Name: Sterling Ranch MD | | Laboratory Name: Colorado As | Colorado Analytical Laboratory | | | |
| Contact Person: Mark Volle | Phone #: 719-227-0072 | Contact Person: Customer Service | | Phone: 303-659-2313 | -2313 | |
| | Do Samples Need to be Composited BY THE LAB? | Comments: | | | | |
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| | Section V (Supplied or Comp | (Supplied or Completed by Public Water System) | | | | |
| Collector: Stephanie S | Stephanie Schwenk Facility ID (On Schedule): | New Well Sample I | Sample Pt ID (On Schedule): | New Well | | |
| Si | Section VI Synthetic Organic Chemicals (Sur | leted by C | Laboratory) | | | |
| Lab Analysis Lab Sample ID Date | Analyte Name | CAS No | Analytical | MCL (ug/L) | Lab MRL (ug/L) | Result (uo/L) |
| 4/3/17 170324007-01E | Dibromochloropropane | 96-12-8 | EPA 504.1 | 0.2 | 0.02 | BDL |
| | 2,4,-D | 94-75-7 | EPA 515.4 | 70 | 0.1 | BDL |
| | 2,4,5.TP | 93-72-1 | EPA 515.4 | 50 | 0.2 | BDL |
| | Alachlor | 15972-60-8 | EPA 525.2 | 7 | 0.2 | BDL |
| | Aldicarb | 116-06-3 | EPA 531.1 | N/A | 9.0 | BDL |
| | Aldicarb sulfone | 1646-88-4 | EPA 531.1 | N/A | 1 | BDL |
| | Aldicarb sulfoxide | 1646-87-3 | EPA 531.1 | N/A | 0.7 | BDL |
| | Atrazine | 1912-24-9 | EPA 525.2 | 3 | 0.1 | BDL |
| - | Benzo(a)pyrene | 50-32-8 | EPA 525.2 | 0.2 | 0.02 | BDL |
| + | Carbofuran | 1563-66-2 | EPA 531.1 | 40 | 6'0 | BDL |
| | Chlordanc | 57-74-9 | EPA 505 | 2 | 0.2 | BDL |
| | Dalapon | 75-99-0 | EPA 515.4 | 200 | _ | BDL |
| | Di(2-ethylhexyl)adipate | 103-23-1 | EPA 525.2 | 400 | 9.0 | BDL |
| 1 | Di(2-ethylhexyl)phthalate | 117-81-7 | EPA 525.2 | 9 | 9.0 | BDL |
| + | Dinoseb | 85-85-7 | EPA 515.4 | 7 | 0.2 | BDL |
| + | Diquat | 85-00-7 | EPA 549.2 | 20 | 0.4 | BDL |
| + | Endothall | 145-73-3 | EPA 548.1 | 100 | 6 | BDL |
| | Endrín | 72-20-8 | EPA 505 | 7 | 10.0 | BDL |
| + | Ethylene dibromide | 106-93-4 | EPA 504.1 | 0.05 | 0.01 | BDL |
| | Heptachlor | 76-44-8 | EPA 525.2 | 0.4 | 0.04 | BDL |
| 3/30/17 170324007-01F | Heptachlor epoxide | 1024-57-3 | HPA 505 | 0.2 | 0.02 | BDL |
| | | | | | | |

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

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| | | | Result | (ug/L) | RDL | RNI | E I | RDI | Dan I | Ida | | RNI | R | RDI |
| | | | Lab MRL | (ng/L) | 0.1 | 0.1 | 200 | 0.1 | - | 200 | 10 | 0.1 | 0.07 | - |
| | New Well | 1 | MCL | (ug/L.) | Ţ | 50 | 0.2 | 40 | 200 | - | 200 | 0.5 | 4 | |
| | Sample Pt ID (On Schedule): | aboratory) | Analytical | Method | EPA 505 | EPA 505 | EPA 505 | EPA 505 | EPA 531.1 | EPA 515.4 | EPA 515.4 | EPA 505 | EPA 525.2 | EPA 505 |
| lic Water System) | /ell Sample Pt | unleted by Certified L | CAS No. | | 118-74-1 | 77.47.4 | 58-89-9 | 72-43-5 | 23135-22-0 | 87-86-5 | 1918-02-1 | 1336-36-3 | 122-34-9 | 8001-35-2 |
| Section V (Supplied or Completed by Public Water System) | Stephanie Schwenk Facility ID (On Schedule): New Well | Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory) | Analyte Name | | Hexachlorobonzene | Hexachlorocyclopentadiene | Lindane | Methoxychlor | Oxamyl | Pentachlorophenol | Pictoram | Polychlorinated biphenyl's | Simazine | Toxaphene |
| | Collector: Stephanie S | Section VI S | Lab Sample ID | | 170324007-01F | 170324007-01F | 170324007-01F | 170324007-01F | 170324007-01J | 170324007-01G | 170324007-01G | 170324007-01F | 170324007-011 | 170324007-01F |
| 21724 | | | Lab Analysis | Date | 3/30/17 | 3/30/17 | 3/30/17 | 3/30/17 | 3/31/17 | 3/29/17 | 3/29/17 | 3/30/17 | 3/31/17 | 3/30/17 |
| PWSID#: CO0121724 | Sample Date: 3/23/17 | | Lab Receipt | one/1 | 3/24/17 | 3/24/17 | 3/24/17 | 3/24/17 | 3/24/17 | 3/24/17 | 3/24/17 | 3/24/17 | 3/24/17 | 3/24/17 |

page lot 2

Colorado Analytical

ABORATORIES, INC.

State Co Zip & GOOS 20 BOULDER CRESCRING STERLENC RANCH MD Compliance Samples: Yes KZ No Send Forms to State: Yes | No m State Form / Project Information PWSID: CO 0121724 System Name: County: El Pase ('ily 5065 BOULDER CRESCENT Email: MVS/K(2) Washind a Com Email: innortey 38 to Dad . com City SPACE 164 State Cozin 8090 \$ Bill To information (if different from report to) Continet Name: JEM MORLEY Company Name: JDS-H-Ldro Congal Company Name: 5R WATER Address: Phone: Sampler Name: Stechante Schwenke Pona. Strate SO903 Addressig E. PilesPeackAve Contact Name: Mark Volle Sulk 350 Phone: 119-337-0079ax; Report To Information

CITY

Page 3 of 4

Lakewood Lab 12860 W. Cedar Dr, Suite 100A

www.coloradolab.com

Phone: 303-659-2313 Lakewood CO 80228

Fax: 303-659-2315

Brighton Lab 240 South Main Street

Brighton, CO 80601

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| | c) Samples Only | (mg/l) S A/4 | | | | | | | | | | ľ |
| | lual Chlorine | | | | | | | | | | | |
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| CAL Task No. | 70324007 ARF | Time | 7.55 | 7:57 | H | 8:1) | 71.52 | 1,50 | 7.53 | 3 | 7:50 | |
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| ں ا | | Date | 3-33 | 7 | | | | - | | | | 1 |
| | Page 3 of 4 | | | | | | | | _ | | | - |

Sample Pres. Yes X No

Temp. 3.3 °C/Ice V Received By:

C/S Charge 🗀

with the bottle shipment. Please preserve Diquot Sample #8 no soon as you receive this shipment, Delivered Via: Fed Ex

preservative was included

Instructions: No 149504

ロダ

5,02

3-23 11 200 50ise (Mulban 3/24171010

Date/Time:

Relinquished By:

Date/Time:

Received By:

Date/Time:

C/S Info:

Seals Present Yes 🗌 No 💟 Headspace Yes 🚺 No 👿

page 2012

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Address: Starle ZipSU903 Compliance Samples: Yes IV No Send Forms to State: Yes No. 18 State Form / Project Information County: 6 Passe City (5) Email: MVolle@jdshydre, Con Email: jmorten 38700001-con Address: 20 Bandder Cresent CIOCOLOGRED SIGNED ZIP 20103 Bill To Information (If different from report to) Contact Name: Jim Morley Company Name: JB-1-Hodre Consultants Company Name: SR Waster Sampler Name: KONEME SCHUSENKE PO No. Star Con 80963 Addressing E. P. Les Peak Ave Suff 200 Contact Name: Mark Volle Phone: 119-337-0073 Report To Information

City (5)

| Colorado Analytical | LABORATORIES, INC. |
|------------------------|--------------------|
| ~1 | |

Brighton Lab 240 South Main Street Brighton, CO 80601

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

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

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| | | Client Sample ID / EP Code | | | ļ | | | 1)0 | _ | 90 | | d | | | ate/Time: -23 (1:322n |
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| ask N | 32400 ARF | Ë | 300 | 5 | . ! | 8:26 | 8.48 | (ķ | ŝ | 15. 15 B | % | 8:39 | tion | : | shed Section |
| CAL Task No. | 170324007 ARF | Date | 2 | | (| _ | | | | | 1 | | Instructions: | | Kelinguished By |
| O L | | I - 10 | Y | | | | | | | | 7 | | Su L | | 等外 |
| | Page 4 c | /I * | | | | | | | | | | | | | 77 3 |



Radionuclides Certified Laboratory Report Form

WQCD – Drinking Water CAS 4300 Cherry Creek Drive South; Denver, CO 80246-1530



| of Public Health and Environment | | F | Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us | he.drinkingw | vater@state.co.us | | | | • |
|-------------------------------------|------------------------------------|--|--|------------------------------|--|----------------------------------|-----------------------|-------------|------------|
| | Section | Section I (Supplied or Completed by Public Water System) | ablic Water System) | | Section II (Supplied or Completed by Certified Laboratory) | d or Completed | by Certified I | aboratory) | |
| | P | Public Water System Information | | | Certified La | Certified Laboratory Information | nation | | |
| PWS ID: C00121724 | 21724 | | | Laboratory ID: CO 00008 | 80000 C | | | | |
| System Name: | System Name: Sterling Ranch MD | Q | | Laboratory Name | Laboratory Name: Hazen Research, Inc. | | | | |
| Contact Person: | • • | | Phone #: | Contact Person: Jessica Axen | essica Axen | | Phone #: 303-279-4501 | 279-4501 | |
| Comments: | į | | Do Samples Need to be Composited BY THE LAB? | Comments: | | | | | |
| | | | Section III (Supplied | or Completed by | Section III (Supplied or Completed by Public Water System) | | | | |
| Sample Date: 03/23/2017 | | Collector: | Facility ID (On Schedule): | Sam | Sample Pt ID (On Schedule): | | | : | |
| | | | Section IV Radionuclides (Supplied or Completed by Certified Laboratory) | upplied or Comp | leted by Certified Laborate | iry) | | | |
| Lab Receipt Date | Lab Receipt Lab Analysis Date Date | Lab Sample ID | Analyte Name (Code) | (apo | CAS No. | Analytical Method | MCL | Lab MRL | Result |
| 03/24/2017 | 04/18/2017 | C27017-001 | Gross Alpha Including Uranium (4002) | anium (4002) | 12587-46-1 | SM 7110 B | N/A | 1.5 | 0.0(±1.5) |
| |))))) | | Combined Uranium (4006) | (4006) | 7440-61-1 | D2907-97 | 30 ug/L | | |
| 03/24/2017 | 04/07/2017 | C27017-001 | Radium -226 (4020) | (07) | 13982-63-3 | SM 7500-RaB | N/A | 0.1 | 0.4(±0.3) |
| 03/24/2017 | 03/30/2017 | C27017-001 | Radium -228 (4030) | 130) | 15262-20-1 | EPA Ra-05 | N/A | 9.0 | 0.2(±0.6) |
| 03/24/2017 | 04/18/2017 | C27017-001 | Gross Beta (4100) | (00 | 12587-47-2 | SM 7110 B | 50 pCi/1.* | 2.1 | 0.0(±2.0) |
| | | | Total Dissolved Solids (1930) | ls (1930) | | 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. | r. Since there is no simple α | onversion betwe | en mrem/year and pCi/L | 3PA considers | 50 pCi/L to b | e the level | f concern. |
| | | | Section V Calculated Values | alues | | | | | |
| | ~ | N/A | Gross Alpha Excluding Uranium (4000) | anium (4000) | Calculated Value | lue | 15 pCi/L | N/A | |
| | | | Combined Radium {-226 & -228} (4010) | (4010) | Calculated Value | lue | 5 pCi/L | N/A | |
| | | | | | | | | | ı |

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

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

ug/L: Micrograms per Liter

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

| Report To Information | Bill To Information (If different from report to) | State Form / Project Information | |
|--|---|--------------------------------------|--|
| Company Name: Colorado Analytical Labs | Соправу Маше: <u>same</u> | PWSID: C00121724 | |
| Contact Name: Stuart Nielson | Contact Name: | System Name: Sterling Ranch MD | |
| Address: P.O. Box 507 | Address: | System Address: 20 Boulder Crescent | |
| City: Brighton State: CO Zip: 80601 | City: State: Zip: | City: Colo Spgs State: CO Zip: 80903 | |
| Phone:303-659-2313 Fax:303-659-2315 | Phone: Fax: | County: El Paso | |
| Email: stuartnielson@coloradolab.com | Email: | Compliance Samples: Yes X No | |
| Sampler Name: | PO No.: | Send Forms to State: Yes No N | |
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| Colorado A | |
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Brighton Lab
240 South Main Street
Brighton, CO 80601

Phone: 303-659-2313 Fax: 303-659-2315 Lakewood Lab
12860 W. Cedar Dr, Suite 101
Lakewood CO 80228

| Relinguished By: | > | Instructions:Gross Please print results | | | | | | 3/23/17 08:03 | Date Time | ARF | 170324007 | CAL Task No. |
|--|----------------|--|--|---|------|--|--|-----------------------------|----------------------------|-------------------------------------|-----------|---------------------------------|
| Daportime: R 3/124/17 R | | Instructions: Gross Alpha, without Radon & Uranium. ** Combined Radium -226 & Please print results on Colorado State form but do not submit to CDPHE. Thank you. | | | | | | 170324007 Sterling Ranch MD | Client Sample ID / EP Code | | | |
| Received By: | | n. ** (| | | | | | 6 | No. o | f Containers | | |
| By: | | Combi | | | | | | | | | | |
| | | Combined Radium -226 & -228 ait to CDPHE. Thank you. | | | | | | | (mg/l | lual Chlorine L) Samples Only | | |
| And the second s | | idium Thai | | | | | | | | l Coliform | | |
| | | -226 nk yo | | | | | | | 504. | EDB/DB | CP | |
| Date/ | | & -2 | | | | | | | 505 | Pests/PCBs | 3 | |
| Date/Time: | | 28. | | | | | | | 515.4 | 4 Herbicide | \$ | 표 |
| ** | | | | | | | | | 524. | 2 VOCs | | ASE |
| | Deli | C/S | | | | | | | 525. | 2 SOCs-Pes | st | i,i |
| Reli | Delivered Via: | C/S Info: | | | | | | | 531. | 1 Carbamat | es | 7. |
| Relinquished By: | Via: | | | | | | | | 547 | Glyphosate | | PHASE I, II, V Drinking |
| shed | | | | | | | | | 548. | I Endothall | | E. |
| By: | 4 | | | | | | | | 549. | 2 Diquat | | |
| | | | | | | | | | 524. | 2 TTHMs | | Water Analyses (check analysis) |
| | _ | | | | | | | | 552. | 2 HAA5s | | Ama |
| Dat | C/S Charge | | | | | | | | Lead | /Copper | | lyses |
| Date/Time: | harge | | | | | | | | Nitra | ite | | <u>\$</u> |
| Ē. | | | | | | | | | Nitri | te | | <u> </u> |
| | Temp. | Sea | | | | | | | Fluo | ride | | lene |
| 8512 | np. | s Pre | | | | | | | Inorg | ganics | | ysis) |
| Regely of Bi | °С Лœ | Seals Present Yes | | | | | | | Alk. | Lang. Inde | x | |
| 1/18 | 8 | 8 | | | | | | | TOC | , DOC (Cir | cle) | |
| U | Samp | No. | | | | | | | SUVA | ., UV 254 (Cir | cle) | |
| 0 | Sample Pres | Ж | | | | | | | | | | 7.0 |
| 03/24/2017 | × Ye | Headspace Yes | | | | | | \boxtimes | Gros | s Alpha /Be | eta | Subci |
| DH | Yes 🗆 No 🗆 | ice Ye | | 口 | | | | \boxtimes | Radi | um 226 | | patra |
| 8/3 | ξ | | | | | | | \boxtimes | Radi | um 228 | | ct A |
| Date/Time;15 | | Z. | | | | | | X | Rado | on | | Subcontract Analyses |
| 14 | | | | | | | | | Uran | dum | | 3 |



Analytical Results

TASK NO: 170324007

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

Bill To: Jim Morley

Company: SR Water

20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170324007

Client PO:

Client Project: Sterling Ranch MD C00121724

Date Received: 3/24/17

Date Reported: 4/21/17

Matrix: Water - Drinking

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

Lab Number: 170324007-01

Facility ID: New Well Sample Point ID: New Well

| Test | Result | Method | ML | Date Analyzed | Analyzed By |
|----------------------|-------------------|-----------|-------------------|---------------|-------------|
| | | | | | |
| Chloride | 1.3 mg/L | EPA 300.0 | 0.1 mg/L | 3/24/17 | LJG |
| 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



Analytical Results

TASK NO: 170324007

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

Bill To: Jim Morley Company: SR Water

20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170324007

Client PO:

Client Project: Sterling Ranch MD C00121724

Date Received: 3/24/17 Date Reported: 4/21/17

Matrix: Water - Drinking

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

Lab Number: 170324007-01

Facility ID: New Well Sample Point ID: New Well

| Test | Result | Method | ML | Date Analyzed | Analyzed By |
|--------------|------------|-----------|------------|---------------|-------------|
| <u>Total</u> | | | | | |
| Zinc | 0.002 mg/L | EPA 200.8 | 0.001 mg/l | L 3/29/17 | TCD |

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

page lot 2

Colorado Analytical

LABORATORIES, INC.

State Co Zip & CHOS 20 BOULDER CARSCRING STERVENCE RANCH HD Compliance Samples: Yes K No Send Forms to State: Yes | No 2 State Form / Project Information PWSID: CO O(21724 System Name: County: El Paso Cily 60.05 Address: DOWNER CRESCEN Email: MV5/ka (Jshuda Com Email: inorley 38 to Dad . com City APPRAICS State Cozzp 80905 Bill To Information (if different from report to) Control Name: STM MORLEY Company Name: J DS-Hydro CeryStillands Company Name: SR WATER Sampler Name: Stechante Schwenke PONO. Phone: Address & Piles Pail Ave San (2021) 809/03 Contact Name: Mark Urlle Suite 300 Phone: 119-337-0074 Report To Information 5 City

Lakewood Lab 12860 W. Cedar Dr, Suite 100A

www.coloradolab.com

Phone: 303-659-2313 Lakewood CO 80228

Fax: 303-659-2315

Brighton Lab 240 South Main Street

Brighton, CO 80601

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| II, V Drinking Water Analyses (check analysis) | Сагративтес | 17165 | | | | | | | | | | | ë | |
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Page 3 of 4

Sample Pres. Yes XIINo Date/Timé:

3.3 % //ee V Received By:

Temp.

C/S Charge Date/Time:

With the bottle shipment. Please preserve Diquot
Sample #8 as soon as you receive this shipment, belivered via: Fed Ex
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Colorado Analytical ABORATORIES, INC. Brighton Lab 240 South Main Street Brighton, CO 80601

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

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

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| CAL Task No. | 170324007 | ₹ | 9 | 2 | | 1 | | | | | | 1 | | Instructions: | | Relinquished By |
| ට 1 | _ | | Date | 353 | \neg | | | | | | | 7 | > | Inst | | 本派 |
| - | | Page 4 o | 14 | | | | • | • | - | <u></u> | 1 | - 1 | | | | \/ \ / |

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

ANALYTICAL SUMMARY REPORT

April 06, 2017

Colorado Analytical Laboratories Inc PO Drawer 507 Brighton, CO 80601

Work Order:

C17030850

Quote ID: C4542 - 624, 625, 1,4-Dioxane

Project Name:

170324007 Sterling Ranch MD

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

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

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

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

Report Approved By:

Digitally signed by Randy Horton

Date: 2017.04.06 16:31:29 -06:00

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

CLIENT: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Report Date: 04/06/17

CASE NARRATIVE

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





LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

170324007 Sterling Ranch MD

Lab ID:

C17030850-001

Client Sample ID: 170324007 Sterling Ranch MD

Report Date: 04/06/17

Collection Date: 03/23/17 08:03

DateReceived: 03/28/17

Matrix: Groundwater

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

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

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

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control (imit.

MCL - Maximum contaminant level.

Matrix: Groundwater

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

170324007 Sterling Ranch MD

Lab ID:

C17030850-001

Client Sample ID: 170324007 Sterling Ranch MD

Report Date: 04/06/17

Collection Date: 03/23/17 08:03

DateReceived: 03/28/17

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

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

170324007 Sterling Ranch MD

Lab ID:

C17030850-001

Client Sample ID: 170324007 Sterling Ranch MD

Report Date: 04/06/17

Collection Date: 03/23/17 08:03

DateReceived: 03/28/17

Matrix: Groundwater

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

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|---------------|---------------|------------------|------|-----------|------------|-----|---------------|------------|
| Method: E624 | | | | | | | An | alytical Run: | R27728 |
| Lab ID: ccv033117 | Continuing Ca | dibration Ver | ification Standa | ard | | | | 03/31 | 1/17 08:45 |
| Acetone | 58.0 | ug/L | 20 | 116 | 70 | 130 | | | |
| Acetonitrile | 56.4 | ug/L | 20 | 113 | 70 | 130 | | | |
| Acrolein | 56.4 | ug/L | 20 | 113 | 70 | 130 | | | |
| Acrylonitrile | 49.6 | ug/L | 20 | 99 | 70 | 130 | | | |
| Benzene | 5.08 | ug/L | 0.50 | 102 | 70 | 130 | | | |
| Bromobenzene | 5.04 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| Bromochioromethane | 5.36 | ug/L | 0.50 | 107 | 70 | 130 | | | |
| Bromodichloromethane | 4.92 | ug/L | 0,50 | 98 | 70 | 130 | | | |
| Bromoform | 5.04 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| Bromomethane | 4,28 | ug/L | 0.50 | 86 | 70 | 130 | | | |
| Carbon disulfide | 5.32 | ug/L | 0.50 | 106 | 70 | 130 | | | |
| Carbon tetrachloride | 5.80 | ug/L | 0.50 | 116 | 70 | 130 | | | |
| Chlorobenzene | 4.56 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| Chlorodibromomethane | 5.04 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| Chloroethane | 4.80 | ug/L | 0,50 | 96 | 70 | 130 | | | |
| 2-Chloroethyl vinyl ether | 2.90 | ug/L | 1.0 | 58 | 70 | 130 | | | s |
| Chloroform | 5.60 | ug/L | 0.50 | 112 | 70 | 130 | | | |
| Chloromethane | 3.82 | ug/L | 0.50 | 76 | 70 | 130 | | | |
| 2-Chlorotoluene | 5.00 | ug/L | 0.50 | 100 | 70 | 130 | | | |
| 4-Chlorotoluene | 5.44 | ug/L | 0.50 | 109 | 70 | 130 | | | |
| 1,2-Dibromoethane | 4.68 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| Dibromomethane | 4.96 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| 1,2-Dichlorobenzene | 5.04 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| 1,3-Dichiorobenzene | 5.16 | ug/L | 0.50 | 103 | 70 | 130 | | | |
| 1,4-Dichlorobenzene | 5.00 | ug/L | 0.50 | 100 | 70 | 130 | | | |
| Dichlorodifluoromethane | 5.20 | ug/L | 0.50 | 104 | 70 | 130 | | | |
| 1,1-Dichloroethane | 4.96 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| 1,2-Dichloroethane | 6.24 | ug/L | 0.50 | 125 | 70 | 130 | | | |
| 1.1-Dichloroethene | 5.12 | ug/L | 0.50 | 102 | 70 | 130 | | | |
| cis-1,2-Dichloroethene | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| trans-1,2-Dichloroethene | 5.00 | ug/L | 0.50 | 100 | 70 | 130 | | | |
| 1,2-Dichloropropane | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 1,3-Dichioropropane | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 2,2-Dichloropropane | 5.72 | ug/L | 0.50 | 114 | 70 | 130 | | | |
| 1,1-Dichloropropene | 5.44 | ug/L | 0.50 | 109 | 70 | 130 | | | |
| cls-1,3-Dichloropropene | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| trans-1,3-Dichloropropene | 4.84 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| Ethylbenzene | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 5.20 | ug/L | 0.50 | 104 | 70 | 130 | | | |
| Methyl ethyl ketone | 54.0 | ug/L | 20 | 108 | 70 | 130 | | | |
| Methyl isobutyl ketone | 50.4 | ug/L | 20 | 101 | 70 | 130 | | | |
| Methylene chloride | 5.88 | ug/L | 0.50 | 118 | 70 | 130 | | | |
| Naphthalene | 5.08 | ug/L | 0.50 | 102 | 70 | 130 | | | |
| nahinggene | 5.00 | սկ/ւ | 0.50 | 102 | , 0 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD RPDLimit Qua |
|--|------------------|------------------|---------------|------|------------|-------------|-----------------------|
| Method: E624 | | | | | | | Analytical Run: R2772 |
| Lab ID: ccv033117 | Continuing Ca | dibration Verifi | cation Standa | ard | | | 03/31/17 08 |
| Styrene | 4.52 | ug/L | 0.50 | 90 | 70 | 130 | |
| Tetrachloroethene | 4.68 | ug/L | 0.50 | 94 | 70 | 130 | |
| 1,1,1,2-Tetrachioroethane | 4.72 | ug/L | 0.50 | 94 | 70 | 130 | |
| 1,1,2,2-Tetrachloroethane | 4.96 | ug/L | 0.50 | 99 | 70 | 130 | |
| Toluene | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | |
| Trichlorcethene | 4.92 | ug/L | 0.50 | 98 | 70 | 130 | |
| 1,1,1-Trichioroethane | 5.72 | ug/L | 0.50 | 114 | 70 | 130 | |
| 1,1,2-Trichloroethane | 4.72 | ug/L | 0.50 | 94 | 70 | 130 | |
| Trichiorofluoromethane | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | |
| 1,2,3-Trichloropropane | 5.2 4 | ug/L | 0.50 | 105 | 70 | 130 | |
| Vinyl Acetate | 5.32 | ug/L | 1.0 | 106 | 70 | 130 | |
| Vinyl chloride | 4.60 | ug/L | 0.50 | 92 | 70 | 130 | |
| m+p-Xylenes | 9.32 | ug/L | 0.50 | 93 | 70 | 130 | |
| o-Xylene | 4.52 | ug/L | 0.50 | 90 | 70 | 130 | |
| Xylenes, Total | 13.8 | ug/L | 0.50 | 92 | 70 | 130 | |
| Surr: 1,2-Dichloroethane-d4 | | | 0.50 | 107 | 71 | 139 | |
| Surr: p-Bromofluorobenzene | | | 0.50 | 102 | 80 | 127 | |
| Surr: Toluene-d8 | | | 0.50 | 91 | 80 | 123 | |
| | | | | | | | |
| Method: E624 | | | | | | | Batch: R2772 |
| Lab ID: | Laboratory Co | • | | | Run: 5971/ | A.I_170331A | 03/31/17 09 |
| Acetone | 56.0 | ug/L | 20 | 112 | 55 | 144 | |
| Acetonitrite | 56.8 | ug/L | 20 | 114 | 54 | 142 | |
| Acrolein | 42.4 | ug/L | 20 | 85 | 16 | 233 | |
| Acrylonitrile | 48.4 | ug/L | 20 | 97 | 76 | 127 | |
| Benzene | 4.92 | ug/L | 0.50 | 98 | 73 | 122 | |
| Bromobenzene | 4.96 | ug/L | 0.50 | 99 | 74 | 129 | |
| Bromochioromethane | 5.16 | ug/L | 0.50 | 103 | 66 | 120 | |
| Bromodichioromethane | 5.16 | ug/L | 0.50 | 103 | 74 | 128 | |
| Bromoform | 5.12 | ug/L | 0.50 | 102 | 66 | 128 | |
| Bromomethane | 4.76 | ug/L | 0.50 | 95 | 51 | 123 | |
| Carbon disulfide | 5.36 | ug/L | 0.50 | 107 | 46 | 145 | |
| Carbon tetrachloride | 5.72 | ug/L | 0.50 | 114 | 75 | 125 | |
| Chiorobenzene | 4.64 | ug/L | 0,50 | 93 | 80 | 123 | |
| Chiorodibromomethane | 5.32 | ug/L | 0.50 | 106 | 74 | 125 | |
| Chloroethane | 4.48 | ug/L | 0.50 | 90 | 59 | 142 | |
| 2-Chloroethyl vinyl ether | 2.62 | u g /L | 1.0 | 52 | 36 | 144 | |
| 2-Chickeniyi viriyi edilet | 5.52 | ug/L | 0.50 | 110 | 68 | 124 | |
| Chloroform | | | 0.50 | 75 | 53 | 146 | |
| - | 3.77 | ug/L | 0.50 | | | | |
| Chloroform | | ug/L ug/L | 0.50 | 102 | 75 | 131 | |
| Chloroform Chloromethane | 3.77 | | | | | | |
| Chloroform Chloromethane 2-Chlorotofuene | 3.77 5.08 | ug/L | 0.50 | 102 | 75 | 131 | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

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

0.50

0.50

0.50

0.50

20

20

90

109

102

92

13.6

Method Blank

ND

ND

ug/L

ug/L

ug/L

Qualifiers:

Acetonitrile

Lab ID:

Acetone

Xylenes, Total

Surr: Toluene-d8

RL - Analyte reporting limit.

Surr: 1,2-Dichloroethane-d4

Surr: p-Bromofluorobenzene

blk033117

ND - Not detected at the reporting limit.

70

71

80

80

Run: 5971A.i_170331A

137

139

127

123

03/31/17 10:18

Prepared by Billings, MT Branch

Colorado Analytical Laboratories Inc Client:

Work Order: C17030850

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

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

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------|---------------|-------|------|------|------------|-------------|-----|----------|-----------|
| Method: E624 | | | | | | | | Batch: | R277281 |
| Lab ID: blk033117 | Method Blank | | | | Run: 5971/ | A.I_170331A | | 03/31 | /17 10:18 |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.50 | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.50 | | | | | | |
| Toluene | ND | ug/L | 0.50 | | | | | | |
| Trichloroethene | ND | ug/L | 0.50 | | | | | | |
| 1,1,1-Trichloroethane | ND | ug/L | 0.50 | | | | | | |
| 1,1,2-Trichloroethane | ND | ug/L | 0.50 | | | | | | |
| Trichlorofiuoromethane | ND | ug/L | 0.50 | | | | | | |
| 1,2,3-Trichloropropane | ND | ug/L | 0.50 | | | | | | |
| Vinyl Acetate | ND | ug/L | 1.0 | | | | | | |
| Vinyl chloride | ND | ug/L | 0.50 | | | | | | |
| m+p-Xylenes | ND | ug/L | 0.50 | | | | | | |
| o-Xylene | ND | ug/L | 0.50 | | | | | | |
| Xylenes, Total | ND | ug/L | 0.50 | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | | -9 | 0.50 | 105 | 71 | 139 | | | |
| Surr: p-Bromofluorobenzene | | | 0.50 | 104 | 80 | 127 | | | |
| Surr: Toluene-d8 | | | 0.50 | 92 | 80 | 123 | | | |
| Lab ID: b17031875-001dms | Sample Matrix | Spike | | | Run: 5971/ | A.I_170331A | | 03/31 | /17 14:12 |
| Acetone | 378 | ug/L | 100 | 109 | 55 | 144 | | | |
| Acetonitrile | 274 | ug/L | 100 | 110 | 54 | 142 | | | |
| Benzene | 24.6 | ug/L | 2.5 | 98 | 73 | 122 | | | |
| Bromobenzene | 24.8 | ug/L | 2.5 | 99 | 74 | 129 | | | |
| Bromochloromethane | 25.2 | ug/L | 2.5 | 101 | 66 | 120 | | | |
| Bromodichloromethane | 26.2 | ug/L | 2.5 | 105 | 74 | 128 | | | |
| Bromoform | 27.0 | ug/L | 2.5 | 108 | 66 | 128 | | | |
| 3romomethane | 18.8 | ug/L | 2.5 | 75 | 51 | 123 | | | |
| Carbon disulfide | 26.4 | ug/L | 2.5 | 106 | 46 | 145 | | | |
| Carbon tetrachloride | 28.2 | ug/L | 2,5 | 113 | 75 | 125 | | | |
| Chlorobenzene | 22.8 | ug/L | 2.5 | 91 | 80 | 123 | | | |
| Chlorodibromomethane | 26.8 | ug/L | 2.5 | 107 | 74 | 125 | | | |
| Chloroethane | 20.2 | ug/L | 2.5 | 81 | 59 | 142 | | | |
| Chioroform | 33.2 | ug/L | 2.5 | 110 | 68 | 124 | | | |
| Chioromethane | 18.6 | ug/L | 2.5 | 74 | 53 | 146 | | | |
| 2-Chlorotoluene | 24.8 | ug/L | 2.5 | 99 | 75 | 131 | | | |
| 4-Chlorotoluene | 25.8 | ug/L | 2.5 | 103 | 74 | 129 | | | |
| 1,2-Dibromoethane | 24.0 | ug/L | 2.5 | 96 | 76 | 124 | | | |
| Dibromomethane | 26.2 | ug/L | 2.5 | 105 | 77 | 125 | | | |
| 1,2-Dichlorobenzene | 24.6 | ug/L | 2.5 | 98 | 74 | 124 | | | |
| 1,3-Dichlorobenzene | 24.6 | ug/L | 2.5 | 98 | 77 | 122 | | | |
| 1,4-Dichlorobenzene | 24.6 | ug/L | 2.5 | 98 | 76 | 126 | | | |
| Dichlorodifiuoromethane | 27.0 | ug/L | 2.5 | 108 | 56 | 146 | | | |
| 1,1-Dichloroethane | 24.2 | ug/L | 2.5 | 97 | 74 | 133 | | | |
| 1,2-Dichloroethane | 29.2 | ug/L | 2.5 | 117 | 75 | 129 | | | |

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Method: E624 Lab ID: b17031875-001dms Samp 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene | 26.6 24.4 25.8 23.0 22.4 28.0 25.2 22.2 | Spike ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 2.5 2.5 2.5 2.5 2.5 2.5 | 106 98 103 92 | 74 81 79 | A.I_170331A 132 122 143 | | | R277281 /17 14:12 |
|--|--|---|--|------------------------|----------------|----------------------------------|-----|--------|----------------------|
| 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene | 26.6 24.4 25.8 23.0 22.4 28.0 25.2 22.2 | ug/L ug/L ug/L ug/L ug/L ug/L | 2.5 2.5 2.5 2.5 | 98 103 92 | 74 81 79 | 132 122 | | 03/31 | /17 14:12 |
| cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene | 24.4 25.8 23.0 22.4 28.0 25.2 22.2 | ug/L ug/L ug/L ug/L ug/L | 2.5 2.5 2.5 2.5 | 98 103 92 | 81 79 | 122 | | | |
| trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene | 25.8 23.0 22.4 28.0 25.2 22.2 | ug/L ug/L ug/L ug/L | 2.5 2.5 2.5 | 103 92 | 79 | | | | |
| 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene | 23.0 22.4 28.0 25.2 22.2 | ug/L ug/L ug/L | 2.5 2.5 | 92 | | 143 | | | |
| 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene | 22.4 28.0 25.2 22.2 | ug/L ug/L | 2.5 | | 75 | | | | |
| 2,2-Dichloropropane 1,1-Dichloropropene | 28.0 25.2 22.2 | ug/L | | | 75 | 126 | | | |
| 1,1-Dichioropropene | 25.2 22.2 | _ | 2.5 | 90 | 71 | 136 | | | |
| | 22.2 | ug/L | | 112 | 68 | 142 | | | |
| cis-1,3-Dichloropropene | | | 2.5 | 101 | 70 | 131 | | | |
| | | ug/L | 2.5 | 89 | 74 | 135 | | | |
| trans-1,3-Dichloropropene | 24.6 | ug/L | 2.5 | 98 | 76 | 149 | | | |
| Ethylbenzene | 23.6 | ug/L | 2.5 | 94 | 72 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 25.6 | u g /L | 2.5 | 102 | 72 | 120 | | | |
| Methyl ethyl ketone | 268 | ug/L | 100 | 107 | 45 | 130 | | | |
| Methyl isobutyl ketone | 258 | ug/L | 100 | 103 | 58 | 135 | | | |
| Methylene chloride | 32.2 | ug/L | 2.5 | 129 | 66 | 142 | | | |
| Naphthalene | 27.6 | u g /L | 2.5 | 110 | 69 | 124 | | | |
| Styrene | 22.4 | ug/L | 2.5 | 90 | 80 | 124 | | | |
| Tetrachioroethene | 22.8 | ug/L | 2.5 | 91 | 72 | 131 | | | |
| 1,1,1,2-Tetrachloroethane | 23.0 | ug/L | 2.5 | 92 | 78 | 124 | | | |
| 1,1,2,2-Tetrachioroethane | 26.0 | ug/L | 2.5 | 104 | 68 | 137 | | | |
| Toluene | 24.4 | ug/L | 2.5 | 95 | 72 | 135 | | | |
| Trichloroethene | 23.8 | ug/L | 2.5 | 95 | 85 | 126 | | | |
| 1,1,1-Trichloroethane | 26.8 | ug/L | 2.5 | 107 | 63 | 120 | | | |
| 1,1,2-Trichloroethane | 23.4 | ug/L | 2.5 | 94 | 78 | 124 | | | |
| Trichlorofluoromethane | 21.2 | ug/L | 2.5 | 85 | 72 | 120 | | | |
| 1,2,3-Trichioropropane | 26.2 | ug/L | 2.5 | 105 | 64 | 138 | | | |
| Vinyl Acetate | 24.4 | ug/L | 5.0 | 98 | 31 | 124 | | | |
| Vinyl chloride | 22.6 | ug/L | 2.5 | 90 | 58 | 140 | | | |
| m+p-Xylenes | 44.8 | ug/L | 2.5 | 90 | 67 | 139 | | | |
| o-Xylene | 22.6 | ug/L | 2.5 | 90 | 74 | 135 | | | |
| Xylenes, Totali | 67.4 | ug/L | 2.5 | 90 | 70 | 137 | | | |
| Surr: 1,2-Dichloroethane-d4 | | | 2.5 | 110 | 71 | 139 | | | |
| Surr: p-Bromofluorobenzene | | | 2.5 | 102 | 80 | 127 | | | |
| Surr: Toluene-d8 | | | 2.5 | 93 | 80 | 123 | | | |
| Lab ID: b17031875-001dmsd Samp | le Matrix | Spike Duplicate | | | Run: 5971A | I_170331A | | 03/31/ | 17 15:11 |
| Acetone | 410 | ug/L | 100 | 122 | 55 | 144 | 8.1 | 20 | |
| Acetonitrile | 262 | ug/L | 100 | 105 | 54 | 142 | 4.5 | 20 | |
| Benzene | 25.0 | ug/L | 2.5 | 100 | 73 | 122 | 1.6 | 20 | |
| Bromobenzene | 25.6 | ug/L | 2.5 | 102 | 74 | 129 | 3.2 | 20 | |
| Bromochloromethane | 25,2 | ug/L | 2.5 | 101 | 66 | 120 | 0.0 | 20 | |
| Bromodichloromethane | 27.2 | u g /L | 2.5 | 109 | 74 | 128 | 3.7 | 20 | |
| Bromoform | 28.4 | ug/L | 2.5 | 114 | 66 | 128 | 5.1 | 20 | |
| Bromomethane | 20.8 | ug/L | 2.5 | 83 | 51 | 123 | 10 | 20 | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Report Date: 04/06/17 Project: 170324007 Sterling Ranch MD Work Order: C17030850

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

Qualifiers:

RL - Analyte reporting limit.

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

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17

Work Order: C17030850

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------|---------------------|---------------|-----------------|-----|------|-----------|-------------|-----|----------|-----------|
| Method: | E824 | | | | | | | | Batch: | R277281 |
| Lab ID: | b17031875-001dmsd | Sample Matrix | Spike Duplicate | | | Run: 5971 | A.I_170331A | | 03/31 | /17 15:11 |
| Vinyl chlori | ide | 22.8 | ug/L | 2.5 | 91 | 58 | 140 | 0.9 | 20 | |
| m+p-Xylen | es | 46.0 | ug/L | 2.5 | 92 | 67 | 139 | 2.6 | 20 | |
| o-Xylene | | 23.4 | ug/L | 2.5 | 94 | 74 | 135 | 3.5 | 20 | |
| Xylenes, T | otal | 69.4 | ug/L | 2.5 | 93 | 70 | 137 | | | |
| Surr: 1,2 | 2-Dichloroethane-d4 | | - | 2.5 | 112 | 71 | 139 | | | |
| Surr: p-8 | 3romofluorobenzene | | | 2.5 | 105 | 80 | 127 | | | |
| Surr: To | luene-d8 | | | 2.5 | 93 | 80 | 123 | | | |



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

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

Qualifiers:

Hexachloroethane

RL - Analyte reporting limit.

Indeno(1,2,3-cd)pyrene

ND - Not detected at the reporting limit.

10

10

ND

ND

ug/L

ug/L

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

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

Project: 170324007 Sterling Ranch MD

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit Qual |
|-------------------------------|----------------|-------------|-----|------|-----------|----------------|-----|----------------|
| Method: E625 | | | | | | | | Batch: 107942 |
| Lab ID: MB-107942 | Method Blank | | | | Run: SV59 | 73N2.I_170330B | | 03/30/17 16:12 |
| Isophorone | ND | ug/L | 10 | | | | | |
| n-Nitrosodimethylamine | ND | ug/L | 10 | | | | | |
| n-Nitroso-di-n-propylamine | ND | ug/L | 10 | | | | | |
| n-Nitrosodiphenylamine | ND | ug/L | 10 | | | | | |
| 2-Nitrophenol | ND | ug/L | 10 | | | | | |
| 4-Nitrophenol | ND | ug/L | 50 | | | | | |
| Naphthalene | ND | ug/L | 10 | | | | | |
| Nitrobenzene | ND | ug/L | 10 | | | | | |
| Pentachlorophenol | ND | ug/L | 50 | | | | | |
| Phenanthrene | ND | ug/L | 10 | | | | | |
| Phenol | ND | ug/L | 10 | | | | | |
| Pyrene | ND | ug/L | 10 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 10 | | | | | |
| 2,4,6-Trichlorophenol | ND | ug/L | 10 | | | | | |
| Surr: 2-Fluorobiphenyl | NB | ag/L | 10 | 57 | 28 | 107 | | |
| Surr: 2-Fluorophenol | | | 10 | 42 | 20 | 56 | | |
| Surr: Nitrobenzene-d5 | | | 10 | 62 | 32 | 94 | | |
| Surr: Phenoi-d5 | | | 10 | 30 | 19 | 45 | | |
| | | | 10 | 80 | 32 | 122 | | |
| Surr: Terphenyl-d14 | | | 10 | 68 | 21 | 130 | | |
| Surr: 2,4,6-Tribromophenol | | | Į U | 00 | 21 | 130 | | |
| Lab ID: LCS-107942 | Laboratory Con | troi Sample | | | Run: SV59 | 73N2.I_170330B | | 03/30/17 16:43 |
| Acenaphthene | 89.1 | ug/L | 10 | 89 | 58 | 99 | | |
| Acenaphthylene | 84.2 | ug/L | 10 | 84 | 57 | 96 | | |
| Anthracene | 75.6 | ug/L | 10 | 76 | 60 | 107 | | |
| Azobenzene | 78.0 | ug/L | 10 | 78 | 56 | 100 | | |
| Benzidine | 53.1 | ug/L | 10 | 53 | 10 | 100 | | |
| Benzo(a)anthracene | 86.4 | ug/L | 10 | 86 | 62 | 114 | | |
| Benzo(a)pyrene | 84.7 | ug/L | 10 | 85 | 62 | 108 | | |
| Benzo(b)fluoranthene | 89.8 | ug/L | 10 | 90 | 48 | 127 | | |
| Benzo(g,h,i)perylene | 87.2 | ug/L | 10 | 87 | 62 | 121 | | |
| Benzo(k)fluoranthene | 84.0 | ug/L | 10 | 84 | 55 | 111 | | |
| 4-Bromophenyl phenyl ether | 87.1 | ug/L | 10 | 87 | 58 | 105 | | |
| Butylbenzylphthalate | 90.8 | ug/L | 10 | 91 | 60 | 113 | | |
| 4-Chioro-3-methyiphenoi | 74.6 | ug/L | 10 | 75 | 53 | 92 | | |
| bis(-2-chloroethoxy)Methane | 69.9 | ug/L | 10 | 70 | 50 | 92 | | |
| bis(-2-chloroethyl)Ether | 72.1 | ug/L | 10 | 72 | 44 | 82 | | |
| bis(2-chloroisopropyl)Ether | 63.2 | ug/L | 10 | 63 | 56 | 87 | | |
| 2-Chioronaphthalene | 84.9 | ug/L | 10 | 85 | 56 | 95 | | |
| 2-Chlorophenol | 67.2 | ug/L | 10 | 67 | 47 | 76 | | |
| - | 83.0 | ug/L | 10 | 83 | 58 | 99 | | |
| 4-Chlorophenyl phenyl ether | 87.0 | _ | 10 | 87 | 63 | 106 | | |
| Chrysene Diethyl abthalata | | ug/L | | | | | | |
| Diethyl phthalate | 84.6 | ug/L | 10 | 85 | 58 | 103 | | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------|-----------------|---------------|----|------|-----------|----------------|-----|----------|-----------|
| Method: E625 | . <u> </u> | | | | | | | Batch | n: 10794: |
| Lab ID: LCS-107942 | Laboratory Conf | roi Sample | | | Run: SV59 | 73N2.I_170330B | | 03/30 | /17 16:43 |
| Di-n-butyl phthalate | 87.1 | ug/L | 10 | 87 | 61 | 110 | | | |
| 1,2-Dichiorobenzene | 69.3 | ug/L | 10 | 69 | 43 | 81 | | | |
| 1,3-Dichlorobenzene | 64.0 | ug/L | 10 | 64 | 41 | 79 | | | |
| 1,4-Dichlorobenzene | 64.5 | ug/L | 10 | 64 | 42 | 79 | | | |
| 3,3'-Dichlorobenzidine | 64.8 | ug/L | 10 | 65 | 51 | 93 | | | |
| 2,4-Dichlorophenol | 70.6 | ug/L | 10 | 71 | 49 | 90 | | | |
| Dimethyl phthalate | 82.5 | ug/L | 10 | 82 | 58 | 104 | | | |
| Di-n-octyl phthalate | 93.4 | ug/L | 10 | 93 | 56 | 110 | | | |
| Dibenzo(a,h)anthracene | 87.8 | ug/L | 10 | 88 | 61 | 111 | | | |
| 2,4-Dimethylphenol | 66.2 | u g/ L | 10 | 66 | 45 | 89 | | | |
| 4,6-Dinitro-2-methylphenol | 66.1 | u g /L | 50 | 66 | 37 | 105 | | | |
| 2,4-Dinitrophenol | 54.1 | ug/L | 50 | 54 | 27 | 81 | | | |
| 2,4-Dinitrotoluene | 56.2 | ug/L | 10 | 86 | 63 | 110 | | | |
| 2,6-Dinitrotoluene | 77.2 | u g/L | 10 | 77 | 60 | 107 | | | |
| bis(2-ethylhexyl)Phthalate | 86.0 | u g/ L | 10 | 86 | 56 | 108 | | | |
| Fluoranthene | 84.2 | ug/L | 10 | 84 | 63 | 110 | | | |
| Fluorene | 89.3 | u g /L | 10 | 89 | 60 | 99 | | | |
| Hexachlorobenzene | 82.7 | u g /L | 10 | 83 | 57 | 103 | | | |
| Hexachiorobutadiene | 71.7 | ug/L | 10 | 72 | 39 | 83 | | | |
| Hexachiorocyclopentadlene | 81.0 | ug/L | 10 | 81 | 39 | 91 | | | |
| Hexachloroethane | 65.0 | ug/L | 10 | 65 | 37 | 75 | | | |
| Indena(1,2,3-cd)pyrene | 83.2 | ug/L | 10 | 83 | 59 | 109 | | | |
| Isophorone | 69.8 | ug/L | 10 | 70 | 42 | 102 | | | |
| n-Nitrosodimethylamine | 36.8 | ug/L | 10 | 37 | 20 | 45 | | | |
| n-Nitroso-di-n-propylamine | 76.6 | ug/L | 10 | 77 | 49 | 98 | | | |
| n-Nitrosodiphenylamine | 91.5 | ug/L | 10 | 92 | 61 | 108 | | | |
| 2-Nitrophenol | 72.3 | ug/L | 10 | 72 | 51 | 96 | | | |
| 4-Nitrophenol | 27.4 | ug/L | 50 | 27 | 15 | 36 | | | |
| Naphthalene | 68.1 | ug/L | 10 | 68 | 48 | 96 | | | |
| Nitrobenzene | 77.9 | ug/L | 10 | 78 | 51 | 91 | | | |
| Pentachiorophenol | 72.4 | ug/L | 50 | 72 | 53 | 109 | | | |
| Phenanthrene | 82.0 | ug/L | 10 | 82 | 58 | 104 | | | |
| Phenol | 40.6 | ug/L | 10 | 41 | 27 | 45 | | | |
| Pyrene | 85.0 | ug/L | 10 | 85 | 64 | 108 | | | |
| 1,2,4-Trichlorobenzene | 71.2 | ug/L | 10 | 71 | 49 | 85 | | | |
| 2,4,6-Trichlorophenol | 73.9 | ug/L | 10 | 74 | 47 | 99 | | | |
| Surr: 2-Fluorobiphenyl | | | 10 | 69 | 28 | 107 | | | |
| Surr: 2-Fluorophenol | | | 10 | 42 | 20 | 56 | | | |
| Surr. Nitrobenzene-d5 | | | 10 | 72 | 32 | 94 | | | |
| Surr: Phenoi-d5 | | | 10 | 36 | 19 | 45 | | | |
| Surr: Terphenyl-d14 | | | 10 | 80 | 32 | 122 | | | |
| Surr: 2,4,6-Tribromophenol | | | 10 | 70 | 21 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

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

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

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------|---------------|---------------|----|------|-----------|----------------|-----|----------|-----------|
| Method: E625 | | | | | | | | Batcl | h: 10794 |
| Lab iD: C17030850-001CMS | Sample Matrix | Spike | | | Run: SV59 | 73N2.I_170330E | 3 | 03/30 | /17 17:45 |
| Acenaphthene | 86.7 | ug/L | 10 | 87 | 58 | 99 | | | |
| Acenaphthylene | 75.5 | ug/L | 10 | 76 | 57 | 96 | | | |
| Anthracene | 81.6 | u g /L | 10 | 82 | 60 | 107 | | | |
| Azobenzene | 84.6 | ug/L | 10 | 85 | 56 | 100 | | | |
| Benzidine | 122 | ug/L | 20 | 122 | 10 | 100 | | | s |
| Benzo(a)anthracene | 83.4 | ug/L | 10 | 83 | 62 | 114 | | | |
| Benzo(a)pyrene | 78.4 | ug/L | 10 | 78 | 62 | 108 | | | |
| Benzo(b)fluoranthene | 79.9 | ug/L | 10 | 80 | 48 | 127 | | | |
| Benzo(g,h,i)perylene | 83.2 | ug/L | 10 | 83 | 62 | 121 | | | |
| Benzo(k)fluoranthene | 84.5 | ug/L | 10 | 84 | 55 | 111 | | | |
| 4-Bromophenyl phenyl ether | 79.5 | u g /L | 10 | 79 | 58 | 105 | | | |
| Butylbenzylphthalate | 89.2 | ug/L | 10 | 89 | 60 | 113 | | | |
| 4-Chloro-3-methylphenol | 78,3 | ug/L | 10 | 78 | 53 | 92 | | | |
| bis(-2-chloroethoxy)Methane | 77.9 | ug/L | 10 | 78 | 50 | 92 | | | |
| bis(-2-chloroethyl)Ether | 71.5 | ug/L | 10 | 71 | 44 | 82 | | | |
| bis(2-chloroisopropyl)Ether | 58.4 | ug/L | 10 | 58 | 56 | 87 | | | |
| 2-Chloronaphthalene | 7 7.6 | ug/L | 10 | 78 | 56 | 95 | | | |
| 2-Chlorophenol | 63.7 | ug/L | 10 | 64 | 47 | 76 | | | |
| 4-Chlorophenyl phenyl ether | 81.0 | ug/L | 10 | 81 | 58 | 99 | | | |
| Chrysene | 85.9 | ug/L | 10 | 86 | 63 | 106 | | | |
| Diethyl phthalate | 84.0 | ug/L | 10 | 84 | 58 | 103 | | | |
| Di-n-butyl phthalate | 87.0 | ug/L | 10 | 87 | 61 | 110 | | | |
| 1,2-Dichlorobenzene | 67.3 | ug/L | 10 | 67 | 43 | 81 | | | |
| 1,3-Dichlorobenzene | 66.0 | ug/L | 10 | 66 | 41 | 79 | | | |
| 1,4-Dichlorobenzene | 66.7 | ug/L | 10 | 67 | 42 | 79 | | | |
| 3,3'-Dichlorobenzidine | 131 | ug/L | 10 | 131 | 51 | 93 | | | S |
| 2,4-Dichlorophenol | 70.0 | ug/L | 10 | 70 | 49 | 90 | | | |
| Dimethyl phthalate | 79.3 | ug/L | 10 | 79 | 58 | 104 | | | |
| Di-n-octyl phthalate | 81.8 | ug/L | 10 | 82 | 56 | 110 | | | |
| Dibenzo(a,h)anthracene | 80.1 | ug/L | 10 | 80 | 61 | 111 | | | |
| 2,4-Dimethylphenol | 70.7 | ug/L | 10 | 71 | 45 | 87 | | | |
| 4,6-Dinitro-2-methylphenol | 53.1 | ug/L | 50 | 53 | 37 | 105 | | | |
| 2,4-Dinitrophenol | 43.0 | ug/L | 50 | 43 | 27 | 81 | | | |
| 2,4-Dinitrotoluene | 85.6 | ug/L | 10 | 86 | 63 | 110 | | | |
| 2,6-Dinitrotoluene | 81.5 | ug/L | 10 | 81 | 60 | 107 | | | |
| bis(2-ethylhexyl)Phthalate | 77.5 | ug/L | 10 | 77 | 56 | 108 | | | |
| Fluoranthene | 84.0 | ug/L | 10 | 84 | 63 | 110 | | | |
| Fluorene | 0.08 | ug/L | 10 | 80 | 60 | 99 | | | |
| Hexachlorobenzene | 78,2 | ug/L | 10 | 78 | 57 | 103 | | | |
| Hexachiorobutadiene | 69.1 | ug/L | 10 | 69 | 39 | 83 | | | |
| Hexachlorocyclopentadiene | 69.0 | ug/L | 10 | 69 | 39 | 91 | | | |
| Hexachloroethane | 62.6 | ug/L | 10 | 63 | 37 | 75 | | | |
| Indeno(1,2,3-cd)pyrene | 76.3 | ug/L | 10 | 76 | 59 | 109 | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------|---------------|---------------|----|------|-----------|----------------|-----|----------|-----------|
| Method: E625 | | | - | | | | | Batc | h: 107942 |
| Lab ID: C17030850-001CMS | Sample Matrix | c Spike | | | Run: SV59 | 73N2.I_170330B | | 03/30 | /17 17:45 |
| Isophorone | 71.4 | ug/L | 10 | 71 | 42 | 102 | | | |
| n-Nitrosodimethylamine | 26.1 | ug/L | 10 | 26 | 20 | 45 | | | |
| n-Nitroso-di-n-propylamine | 76.1 | ug/L | 10 | 76 | 49 | 98 | | | |
| n-Nitrosodiphenylamine | 105 | ug/L | 10 | 105 | 61 | 108 | | | |
| 2-Nitrophenol | 73.5 | ug/L | 10 | 74 | 51 | 96 | | | |
| 4-Nitrophenoi | 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 | u g/ 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 | | | | | | | Analytical Run: | R277253 |
| Lab ID: 30-Mar-17_CCV_11 | Continuing Ca | libration Verif | ication Standa | rd | | | 03/30 |)/17 15:40 |
| Acenaphthene | 75.3 | ug/L | 10 | 100 | 80 | 120 | | |
| Acenaphthylene | 79.7 | ug/L | 10 | 106 | 80 | 120 | | |
| Anthracene | 75.2 | ug/L | 10 | 100 | 80 | 120 | | |
| Azobenzene | 75.1 | ug/L | 10 | 100 | 08 | 120 | | |
| Benzidine | 70.6 | ug/L | 10 | 94 | 80 | 120 | | |
| Benzo(a)anthracene | 76.3 | ug/L | 10 | 102 | 80 | 120 | | |
| Benzo(a)pyrene | 81.9 | ug/L | 10 | 109 | 80 | 120 | | |
| Benzo(b)fluoranthene | 78.3 | ug/L | 10 | 104 | 80 | 120 | | |
| Benzo(g,h,l)perylene | 78.0 | ug/L | 10 | 104 | 80 | 120 | | |
| Benzo(k)fluoranthene | 81.6 | ug/L | 10 | 109 | 80 | 120 | | |
| 4-Bromophenyl phenyl ether | 81.6 | ug/L | 10 | 109 | 80 | 120 | | |
| Butylbenzylphthalate | 78.0 | ug/L | 10 | 104 | 80 | 120 | | |
| 4-Chloro-3-methylphenol | 76.0 | ug/L | 10 | 101 | 80 | 120 | | |
| bis(-2-chloroethoxy)Methane | 70.4 | ug/L | 10 | 94 | 80 | 120 | | |
| bis(-2-chloroethyl)Ether | 77.2 | ug/L | 10 | 103 | 80 | 120 | | |
| bis(2-chloroisopropyl)Ether | 76.7 | ug/L | 10 | 102 | 80 | 120 | | |
| 2-Chloronaphthalene | 79.8 | ug/L | 10 | 106 | 08 | 120 | | |
| 2-Chlorophenol | 72.7 | ug/L | 10 | 97 | 80 | 120 | | |
| 4-Chlorophenyl phenyl ether | 72.7 | ug/L | 10 | 97 | 80 | 120 | | |
| Chrysene | 74.9 | ug/L | 10 | 100 | 80 | 120 | | |
| Diethyl phthalate | 76.8 | ug/L | 10 | 102 | 80 | 120 | | |
| Di-n-butyl phthalate | 76.9 | ug/L | 10 | 102 | 80 | 120 | | |
| 1,2-Dichlorobenzene | 76.8 | ug/L | 10 | 102 | 80 | 120 | | |
| 1,3-Dichlorobenzene | 72.1 | ug/L | 10 | 96 | 80 | 120 | | |
| 1,4-Dichlorobenzene | 74.8 | ug/L | 10 | 100 | 80 | 120 | | |
| 3,3'-Dichlorobenzidine | 76.2 | ug/L | 10 | 102 | 80 | 120 | | |
| 2,4-Dichlorophenol | 73.5 | ug/L | 10 | 98 | 80 | 120 | | |
| Dimethyl phthalate | 77.0 | ug/L | 10 | 103 | 80 | 120 | | |
| Di-n-octyl phthalate | 81.2 | ug/L | 10 | 108 | 80 | 120 | | |
| Dibenzo(a,h)anthracene | 76.2 | ug/L | 10 | 102 | 80 | 120 | | |
| 2,4-Dimethylphenol | 70.3 | ug/L | 10 | 94 | 80 | 120 | | |
| 4,6-Dinitro-2-methylphenol | 77.4 | ug/L | 50 | 103 | 80 | 120 | | |
| 2,4-Dinitrophenol | 80.2 | ug/L | 50 | 107 | 80 | 120 | | |
| 2,4-Dinitrotoluene | 79.8 | ug/L | 10 | 106 | 80 | 120 | | |
| 2,6-Dinitrotoluene | 80.8 | ug/L | 10 | 108 | 80 | 120 | | |
| bis(2-ethylhexyi)Phthalate | 77.3 | ug/L | 10 | 103 | 80 | 120 | | |
| Fluoranthene | 76.8 | ug/L | 10 | 102 | 80 | 120 | | |
| Fluorene | 82.8 | ug/L | 10 | 110 | 80 | 120 | | |
| Hexachiorobenzene | 74.2 | ug/L | 10 | 99 | 80 | 120 | | |
| Hexachlorobutadiene | 73.0 | ug/L | 10 | 97 | 80 | 120 | | |
| Hexachiorocyclopentadiene | 79.2 | ug/L | 10 | 106 | 80 | 120 | | |
| Hexachloroethane | 74.4 | ug/L | 10 | 99 | 80 | 120 | | |
| ndeno(1,2,3-cd)pyrene | 73.3 | ug/L | 10 | 98 | 80 | 120 | | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------|------------------|---------------|------------------|---------------|------|-----------|------------|-----|---------------|-----------|
| Method: | E625 | | | · | | | | Ar | aiytical Run: | R277253 |
| Lab ID: | 30-Mar-17_CCV_11 | Continuing Ca | libration Verifi | cation Standa | ırd | | | | 03/30 | /17 15:40 |
| Isophorone | • | 71.5 | ug/L | 10 | 95 | 80 | 120 | | | |
| n-Nitrosodii | methylamine | 79.5 | ug/L | 10 | 106 | 80 | 120 | | | |
| n-Nitroso-di | i-n-propylamine | 76.0 | ug/L | 10 | 101 | 80 | 120 | | | |
| n-Nitrosodi | phenylamine | 77.5 | ug/L | 10 | 103 | 80 | 120 | | | |
| 2-Nitropher | nol | 74.6 | u g /L | 10 | 99 | 80 | 120 | | | |
| 4-Nitropher | lor | 72.4 | ug/L | 50 | 97 | 80 | 120 | | | |
| Naphthalen | ie | 68.4 | ug/L | 10 | 91 | 80 | 120 | | | |
| Nitrobenzer | ne | 77.1 | ug/L | 10 | 103 | 80 | 120 | | | |
| Pentachloro | ophenol | 71.7 | ug/L | 50 | 96 | 80 | 120 | | | |
| Phenanthre | ene | 70.9 | ug/L | 10 | 95 | 80 | 120 | | | |
| Pheno! | | 79.0 | ug/L | 10 | 105 | 80 | 120 | | | |
| Pyrene | | 79.0 | ug/L | 10 | 105 | 80 | 120 | | | |
| 1,2,4-Trichi | orobenzene | 73.1 | ug/L | 10 | 98 | 80 | 120 | | | |
| 2,4,6-Trichl | orophenol | 71.0 | ug/L | 10 | 95 | 80 | 120 | | | |
| Surr: 2-F | luorobiphenyl | | | 10 | 108 | 80 | 120 | | | |
| Surr: 2-F | luorophenol | | | 10 | 105 | 80 | 120 | | | |
| Surr: Nitr | robenzene-d5 | | | 10 | 101 | 80 | 120 | | | |
| Surr: Phe | enal-d5 | | | 10 | 102 | 80 | 120 | | | |
| Surr: Ter | phenyl-d14 | | | 10 | 104 | 80 | 120 | | | |
| Surr: 2,4, | 6-Tribromophenol | | | 10 | 105 | 80 | 120 | | | |

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

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

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

Work Order Receipt Checklist

Contact and Corrective Action Comments:

None

Colorado Analytical Laboratories Inc C17030850

| Login completed by: | Corinne Wagner | | Date | Received: 3/28/2017 | |
|--|--|----------------|------------|------------------------|--|
| Reviewed by: | Kasey Vidick | | Re | eceived by: ckw | |
| Reviewed Date: | 3/29/2017 | | Ca | rrier name: Ground | |
| Shipping container/cooler in | good condition? | Yes 🗸 | No 🗔 | Not Present | |
| Custody seals intact on all sl | nipping container(s)/cooler(s)? | Yes | No 🗌 | Not Present 🗸 | |
| Custody seals intact on all sa | ample bottles? | Yes 🗌 | No 🗌 | Not Present | |
| Chain of custody present? | | Yes 🗹 | No 🗌 | | |
| Chain of custody signed whe | n relinguished and received? | Yes 🗸 | No 🗌 | | |
| Chain of custody agrees with | sample labels? | Yes 🔽 | No 🗌 | | |
| Samples in proper container | bottle? | Yes 🗸 | No 🗌 | | |
| Sample containers intact? | | Yes 🗸 | No 🗌 | | |
| Sufficient sample volume for | indicated test? | Yes 🔽 | No 🗌 | | |
| All samples received within h (Exclude analyses that are co such as pH, DO, Res Cl, Su | onsidered field parameters | Yes 🗸 | No 🗌 | | |
| Temp Blank received in all si | nipping container(s)/cooler(s)? | Yes 🗌 | No 🗹 | Not Applicable | |
| Container/Temp Blank temps | erature: | 6,6°C On Ice - | From Field | | |
| Water - VOA vials have zero | headspace? | Yes 🔽 | No 🗌 | No VOA vials submitted | |
| Water - pH acceptable upon | receipt? | Yes | No 🗌 | Not Applicable ✓ | |
| Standard Reporti | ng Procedures: | | | | |
| | nalytes considered field p and Residual Chlorine, ar | | | | |
| | reported on a wet weight length of the noted as —dry. For agricumple analysis. | | | | |
| | | | | | |

Chain of Custody Form

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

| | | | | | | | | | | | | 1 |
|--|-----------------------------|---|---|---|---|------|---|---|---|----------------------------------|-------------------------|--------------------|
| | | | | | | | | | | K | Somote Pres. Yes 🗍 No 🗍 | Date/Time: |
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| | 牌 | 빔 | | | | | | | | Scals Present Yes No | Temp. 6 GCIce YES | \ \ |
| | | | | | | | H | | | nt Yes | ڗ ڒؿ | d By: |
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| | | | | | | | | | | | Dag. | Ë |
| 625 SOCs | | | | H | H | | | | | | C/S Charge | Date/Time: |
| 524 Long List | × | | | | | | | | | | Ī | |
| 8260 1,4-Dioxane | X | | | | | | | | | | | |
| or (Check One Only) Composite | | | | | | | | | | | | By: |
| Grab | | | | | | | | | | | | uished |
| No. of Containers | 7 | | | | | | | - | | | | Relinquished By: |
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| Plant 'Other — | | | | | | | | | ! | | | |
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| | Q | | | | | | | | | | | Rece |
| ost | Ranch. | | | | | | | | | | | |
| Soil Sludge Compost | terling | | | | | | ! | | | | | 177 1700 |
| Soli | S 2001 | | İ | | | | | | | ps | | 3/27/17 3/27/17 |
| | 170324007 Sterling Ranch MD | | | | | | | | | rgy La | | |
| | | | | | | | | | | to Ene | | :. 03 |
| e Water ind Wate | 08:03 | | | | | | | | | ns:UP | | Sed By |
| Waste Water ☐ Soil ☐ Plant Ground Water ☒ Sludge ☐ Other Surface Water ☐ Compost ☐ — | | | | | | | | | | Instructions: UPS to Energy Labs | | Remaished By: |
| 3 5 8 € | 3/23/17 | | | | | | | | | Inst | | 37 |

EPC Confined Aquifer Sampling Requirements

Field Measurements

рΗ

Temp

Radionuclides

Radium 226 and Radium 228

Gross alpha/Beta

Inorganics

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cyanide (Total)

Fluoride

Mercury

Nitrate

Nitrite

Selenium

Thallium

Secondary MCLs

Aluminum

Chloride

Corrosivity

Iron

Manganese

Silver

Sulfate

Zinc

TDS

Bacteriological:

Total Coliform

Stephanie Schwenke

From: Catherine McGarvy <CatherineMcGarvy@elpasoco.com>

Sent: Tuesday, October 13, 2020 11:59 AM

To: Stephanie Schwenke

Subject: RE: Small subdivision plat approval question regarding sampled water quality

Good Afternoon,

I apologize for the delay in response I am working through a lot of inquiries at the moment and wanted to make sure I had the most accurate information for you.

El Paso County Public Health (EPCPH) will note this on the Water Quality sufficiency determination. That determination is usually made just before the Final Plat is submitted. Once we make comment on the sufficiency they will usually attach and record plat note to the subdivision final drawings that is part of the information disclosed when anyone buys a lot. In some cases EPCPH has strongly encouraged the installation of an under the counter type RO system be installed, especially with a more prevalent contaminant like fluoride or nitrates. A high radium result on one test is not likely the case throughout the subdivision, so a plat note is what I would expect.

I hope this helps, please let me know if I can provide any additional information.

Thank you

Kat McGarvy M.S., R.E.H.S Water Quality Program Manager El Paso County Public Health 1675 W. Garden of the Gods Rd., Ste. 2044 Colorado Springs, CO 80907

Office: (719) 578-3112 Cell: (719) 337-7832 Fax: (719) 578-3118

www.elpasocountypublichealth.org

For local information about the novel coronavirus disease 2019 (COVID-19), visit <u>El Paso County Public</u> Health's COVID-19 website.





2020 Census information can be found at:

https://coloradosprings.gov/pikespeakcensus

From: Stephanie Schwenke <sschwenke@jdshydro.com>

Sent: Thursday, October 8, 2020 4:31 PM

To: Catherine McGarvy < Catherine McGarvy@elpasoco.com>

Subject: Small subdivision plat approval question regarding sampled water quality

CAUTION: This email originated from outside the El Paso County technology network. Do not click links or open attachments unless you recognize the sender and know the content is safe. Please call IT Customer Support at 520-6355 if you are unsure of the integrity of this message.

Kat,

I believe you have replaced Aaron Doussett in responding to water quality questions within El Paso County Health. I have a client who would like to subdivide land on the eastern side of the County into 10 - 12 lots that would range in size from 2.5 - 5 acres. We were able to pull water samples from the same aquifer at a property that was 0.5 miles away from the furthest possible future well in this subdivision. All the water quality came back below MCL limits except combined Radium 226+228. The result was 5.5 pCi/l using the standard deviation. That result is just above the MCL for combined Radium 226+228 of 5 pCi/l.

JDS is wondering if EPC would sign off on the signature page of the Water Resources Report with a recommendation for disclosure of the results to the lot purchaser. With that disclosure would be treatment information for the new owner to install one of several NSF approved Reverse Osmosis Point of Use treatment systems in the new home for the removal of Radium 226+228.

Please respond as soon as possible and do not hesitate to contact to contact me if you have any questions.

Thank you for your time!

Stephanie Schwenke

JDS-Hydro Consultants, INC 545 E. Pikes Peak Ave. Ste 300 Colorado Springs, CO 80903 719-227-0072 719-321-5341 (c) sschwenke@jdshydro.com



1675 W. Garden of the Gods Road Suite 2044 Colorado Springs, CO 80907 (719) 578-3120

REPORTING FORM FOR **INORGANIC ANIONS IN WATER** EPA ID # CO00025

| PWSID# CO0 | | | | CONTACT: Stephanie Schwenke-JDS-Hydro | | | | | | |
|---|---------------|---------------|---------------|---------------------------------------|------------------|------------|---------|--|--|--|
| SITE ADDRESS: | | | | PHONE: (719) | 227-0072 | | | | | |
| 10620 Vollmer Colorado Springs, CO 809 | ang | | | FAX/EMAIL: ss | schwenke@jdshy | /dro.com | | | | |
| Colorado Springs, CO oos | 900 | | | COLLECTED E | 3Y: Stephanie So | chwenke | | | | |
| | | | | SAMPLE COLI | LECTION DATE: | 9/8/20 | | | | |
| SITE DESCRIPTION: | | | | SAMPLE COLLECTION TIME: 0850 | | | | | | |
| ☐ Public System ☑ F | Private □ Sur | face □ Stre | am | MATRIX: Groundwater | | | | | | |
| □ GWUDI □ 0 | Other | | | RESIDUAL CHLORINE: mg/L | | | | | | |
| CUSTOMER: | | | | SAMPLE REC | EIVED DATE: 9/ | 8/20 | | | | |
| Stephanie Schwenke-JDS 5540 Tech Center Drive | • | | | RECEIVED TIM | ME: 1350 | TECH: EE00 | 000728 | | | |
| COLORADO SPRINGS, | | RECEIVED TE | MP: 21.8°C | | | | | | | |
| | | DILUTIONS: 1: | :1 | | | | | | | |
| COMMENTS: | | | | | | | | | | |
| | | | | | | | | | | |
| TES | | COMPLETE |) | 7 | TECH | | | | | |
| DATE: 09/09/2020 | | | DATE: 09/09/2 | 000 | | | | | | |
| TIME: 1122 | | | TIME: 1440 | ID: EE0000742 | | | | | | |
| LAB SAMPLE #:IC21798 | | | SAMPLE POIN | INT NAME: Hydrant | | | | | | |
| SAMPLE POINT ID: | | | FACILITY TYP | /PE: | | | | | | |
| FACILITY ID: | | | FACILITY NAM | AME: | | | | | | |
| | | | | | | | | | | |
| PARAMETER | RESULTS | UNITS | MCL | MSL | STANDARD M | METHOD | LAB MRL | | | |
| Fluoride | | mg/L | 4.0 | | EPA 3 | 300 | 0.04 | | | |
| Chloride | | mg/L | | 250 | EPA 3 | 300 | 0.1 | | | |
| Nitrite-N | BDL | mg/L | 1.0 | | EPA 3 | 0.2 | | | | |
| Bromide | | mg/L | | | | | 0.2 | | | |
| Nitrate-N | < 0.2 | 10.0 | | EPA 300 | | | | | | |
| Orthophosphate-P mg/L established | | | | | EPA 300 | | | | | |
| Sulfate | | mg/L | | 250 | EPA 300 0.3 | | | | | |

BDL - Below Detection Limit MRL - Minimum Reporting Limit MCL - Maximum Contamination Unit per EPA MSL - Maximum Secondary Unit per EPA Q - Quality Control Limit Exceeded

NT - No Test

H - Holding Time Exceeded

Revision: 6/21/2019

El Paso County Public Health Laboratory EPA ID# CO00025 1675 West Garden of the Gods Road, Suite 2044, Colorado Springs, CO 80907 - (719) 578-3120 ☐ Raw **PWSID** ☐ Finished LT2 Sample Point ID: ☐ Quantitative Sample Taken Date: 09/08/2020 Time: 0850 Name of Supply: Address where sample was taken: 10620 Vollmer Sample site location: Hydrant Sampler: Stephanie Schwe Chlorine: mg/L ☐ Community Supply ✓ Private ✓ Well ☐ City ☐ Surface/Spring ☐ Cistern $\hfill\square$ Non-Community ☐ EHS Phone: (719) 227-0072 Results to: Stephanie Schwenke-JDS-Hydro Mailing address: 5540 Tech Center Drive City/State/Zip: COLORADO SPRINGS, CO. 8019 Fax/Email: sschwenke@jdshydro.com Comments:

STANDARD BACTERIOLOGICAL WATER TEST METHOD:SM-9223B

| Date 09/08/2020 | Time 1350 Rc'd EE0000728 | | | | | | |
|---|---|------------------|--|--|--|--|--|
| Date 09/08/2020 | Time 1541 | Tested EE0000742 | | | | | |
| Date 09/09/2020 | Time 0953 | Comp EE0000742 | | | | | |
| Lab Sample #21797 | | | | | | | |
| Colliert Results Per 100ml | | | | | | | |
| ☑ Absence: Absence of coliform bacteria | | | | | | | |
| | ☐ Presence: Presence of coliform bacteria & non-compliance with drinking water standards. | | | | | | |
| MPN/100 ml: | | | | | | | |
| ☑ Absence: E. | ☑ Absence: E. Coli: Escherichia coli bacteria | | | | | | |
| ☐ Presence: | | | | | | | |
| MPN/100 ml: | | | | | | | |



Analytical Results

TASK NO: 200910111

Report To: Stephanie Schwenke Company: JDS Hydro Consultants

5540 Tech Center Dr.

Suite 100

Colorado Springs CO 80919

Bill To: Stephanie Schwenke Company: JDS Hydro Consultants

5540 Tech Center Dr.

Suite 100

Colorado Springs CO 80919

Task No.: 200910111

Client PO: **Client Project:** Date Received: 9/10/20 Date Reported: 9/23/20

Matrix: Water - Drinking

Customer Sample ID Retreat Test

Sample Date/Time: 9/8/20

8:35 AM

Lab Number: 200910111-01

| Test | Result | Method | ML | Date Analyzed | Analyzed By |
|------------------------|--------------------|-------------|------|---------------|-------------|
| Bicarbonate | 70.0 mg/L as CaCO3 | SM 2320-B | 4 | 9/11/20 | ECM |
| Calcium as CaCO3 | 60.2 mg/L | EPA 200.7 | 0.1 | 9/15/20 | MBN |
| Carbonate | < 4 mg/L as CaCO3 | SM 2320-B | 4 | 9/11/20 | ECM |
| Hydroxide | < 4 mg/L as CaCO3 | SM 2320-B | 4 | 9/11/20 | ECM |
| Langelier Index | -1.19 units | SM 2330-B | | 9/23/20 | SAN |
| pH | 7.03 units | SM 4500-H-B | 0.01 | 9/8/20 | Sampler |
| Temperature | 16 °C | SM 4500-H-B | 1 | 9/8/20 | Sampler |
| Total Alkalinity | 70.0 mg/L as CaCO3 | SM 2320-B | 4 | 9/11/20 | ECM |
| Total Dissolved Solids | 141 mg/L | SM 2540-C | 5 | 9/15/20 | ISG |

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



Analytical Results

TASK NO: 200910111

Report To: Stephanie Schwenke Company: JDS Hydro Consultants

5540 Tech Center Dr.

Suite 100

Colorado Springs CO 80919

Bill To: Stephanie Schwenke

Company: JDS Hydro Consultants 5540 Tech Center Dr.

Suite 100

Colorado Springs CO 80919

Task No.: 200910111

Client PO:

Client Project:

Date Received: 9/10/20 Date Reported: 9/23/20

Matrix: Water - Drinking

Customer Sample ID Retreat Test

Sample Date/Time: 9/8/20 8:35 AM

Lab Number: 200910111-01

| | er. 200910111-01 | | | | | |
|---------------|------------------|-----------|-------------|---------------|-------------|-------|
| Test | Result | Method | ML | Date Analyzed | Analyzed By | MCL |
| | | | | | | |
| Chloride | 2.1 mg/L | EPA 300.0 | 0.1 mg/L | 9/11/20 | MAT | |
| Fluoride | 0.30 mg/L | EPA 300.0 | 0.09 mg/L | 9/11/20 | MAT | 4 |
| Sulfate | 10.4 mg/L | EPA 300.0 | 0.1 mg/L | 9/11/20 | MAT | |
| Cyanide-Total | < 0.005 mg/L | EPA 335.4 | 0.005 mg/L | 9/15/20 | CES | 0.02 |
| <u>Total</u> | | | | | | |
| Iron | 0.005 mg/L | EPA 200.7 | 0.005 mg/L | 9/15/20 | MBN | 0.3 |
| Aluminum | 0.007 mg/L | EPA 200.8 | 0.001 mg/L | 9/16/20 | IPC | 0.05 |
| Antimony | < 0.0012 mg/L | EPA 200.8 | 0.0012 mg/L | 9/16/20 | IPC | 0.006 |
| Arsenic | 0.0008 mg/L | EPA 200.8 | 0.0006 mg/L | 9/16/20 | IPC | 0.01 |
| Barium | 0.1151 mg/L | EPA 200.8 | 0.0007 mg/L | 9/16/20 | IPC | 2 |
| Beryllium | < 0.0001 mg/L | EPA 200.8 | 0.0001 mg/L | 9/16/20 | IPC | 0.004 |
| Cadmium | < 0.0001 mg/L | EPA 200.8 | 0.0001 mg/L | 9/16/20 | IPC | 0.005 |
| Chromium | < 0.0015 mg/L | EPA 200.8 | 0.0015 mg/L | 9/16/20 | IPC | 0.1 |
| Manganese | 0.0081 mg/L | EPA 200.8 | 0.0008 mg/L | 9/16/20 | IPC | 0.05 |
| Mercury | < 0.0001 mg/L | EPA 200.8 | 0.0001 mg/L | 9/16/20 | IPC | 0.002 |
| Selenium | < 0.0008 mg/L | EPA 200.8 | 0.0008 mg/L | 9/16/20 | IPC | 0.05 |
| Silver | < 0.0005 mg/L | EPA 200.8 | 0.0005 mg/L | 9/16/20 | IPC | |
| Thallium | < 0.0002 mg/L | EPA 200.8 | 0.0002 mg/L | 9/16/20 | IPC | 0.002 |
| Zinc | 0.118 mg/L | EPA 200.8 | 0.001 mg/L | 9/16/20 | IPC | 5 |
| | | | | | | |

Abbreviations/ References:

ML = Minimum Level = LRL = RL

MCL = Maximum Contaminant Level per The EPA

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

October 06, 2020

Report to:

Stephanie Schwenke

JDS Hydro Consultants, Inc.

5540 Tech Center Drive

Colorado Springs, CO 80919

cc: John McGinn

Bill to:

Stephanie Schwenke

JDS Hydro Consultants, Inc.

545 E. Pikes Peak Ave.

Suite 300

Colorado Springs, CO 80903

Project ID:

ACZ Project ID: L61347

Stephanie Schwenke:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 09, 2020. This project has been assigned to ACZs project number, L61347. Please reference this number in all future inquiries.

All analyses were performed according to ACZs Quality Assurance Plan. The enclosed results relate only to the samples received under L61347. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZs current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after November 05, 2020. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZs stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and

re 9, la W

approved this report.





L61347-2010061359 Page 1 of 10

RadioChemistry Analytical Results

JDS Hydro Consultants, Inc.

Project ID:

Sample ID: #1-#3 RETREAT TEST

Locator:

ACZ Sample ID: L61347-01

Date Sampled: 09/08/20 8:42

Date Received: 09/09/20

Sample Matrix: Drinking Water

Gross Alpha & Beta, total

M900.0

Prep Method:

| Parameter | Measure Date | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Gross Alpha | 09/28/20 0:23 | | 1.1 | 1.2 | 1.2 | pCi/L | | fdw |
| Gross Beta | 09/28/20 0:23 | | 6 | 2.1 | 1.8 | pCi/L | * | fdw |

Radium 226, total

M903.1

Prep Method:

| Parameter | Measure Date | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------------|---------------|-----------|--------|------------|------|-------|----|---------|
| Radium 226, total | 09/23/20 0:27 | | 1.4 | 0.18 | 80.0 | pCi/L | * | djc |

Radium 228, total

Prep Method:

M904.0

| Parameter | Measure Date | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------------|----------------|-----------|--------|------------|------|-------|----|---------|
| Radium 228, total | 10/03/20 14:40 | | 5 | 0.72 | 0.53 | pCi/L | * | fdw |

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report Header Explanations

Batch A distinct set of samples analyzed at a specific time

Error(+/-) Calculated sample specific uncertainty

Found Value of the QC Type of interest

Limit Upper limit for RPD, in %.

LCL Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD Calculated sample specific Lower Limit of Detection

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer certificate of analysis

PQL Practical Quantitation Limit

QC True Value of the Control Sample or the amount added to the Spike

Rec Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)

RER Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.

RPD Relative Percent Difference, calculation used for Duplicate QC Types

UCL Upper Control Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sample Types

| DUP | Sample Duplicate | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
|------|-----------------------------------|--------|-------------------------------------|
| LCSS | Laboratory Control Sample - Soil | PBS | Prep Blank - Soil |
| LCSW | Laboratory Control Sample - Water | PBW | Prep Blank - Water |

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method.

Matrix Spikes Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H Analysis exceeded method hold time.

Method Prefix Reference

M EPA methodology, including those under SDWA, CWA, and RCRA SM Standard Methods for the Examination of Water and Wastewater.

D ASTM
RP DOE
ESM DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ Extended Qualifiers, please click:

https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP003.09.12.01

L61347-2010061359 Page 3 of 10

ACZ Project ID: **L61347**

JDS Hydro Consultants, Inc.

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

| Alpha | | | M900.0 | | | | | | | | | | Units | Units: pCi/L | | |
|-------------------|----------------|-----------|-------------|--------|--------------|------------|----------|---------|----------|-------------|---------|-------|--------------------------|--------------|-------|------|
| ACZ ID | Type | Analyzed | PCN/SCN | ac | Sample | Error | ПСР | Found | Error | CLD | Rec% | Lower | Rec% Lower Upper RPD/RER | RPD/RER | Limit | Qual |
| WG505597 | ğ | 00,00 | | | | | | Ç | 2 | 2 | | | , 0 | | | |
| WG303397PBW |) i | | | 1 | | | | 4. I | <u></u> | 67.0 | , | 1 | 00. | | | |
| WG50559/LCSWA | רכאע מיקי | 08/88/80 | PCN60283 | 99.99 | 7 | 4 | 7 | 5 7 0 | ۵ (| 0.88 1.6 | 011 | /9 | 144 4 | 20 | c | |
| Lo1zo/-01DUP | ביירטט | 03/28/20 | | | = | <u>o</u> . | <u>`</u> | 7.7 | <u>.</u> | 0 | | | | 0.04 | ٧ | |
| L61267-01DUP | DUP-RPD | 09/28/20 | | | [| 9.1 | 1.7 | 2.7 | 1.9 | 9.1 | | | | 84 | 70 | RG |
| L61319-04MSA | MS | 09/28/20 | PCN60283 | 131.58 | -0.54 | 1.7 | 3.1 | 100 | 4 | 3.7 | 9/ | 29 | 144 | | | |
| L61535-05DUP | DUP-RPD | 09/28/20 | | | 8.1 | 2.7 | 15 | ω | 5.6 | 59 | | | | - | 20 | |
| Beta | | | M900.0 | | | | | | | | | | Units | Units: pCi/L | | |
| ACZ ID | Type | Analyzed | PCN/SCN | ac | Sample | Error | FP | Found | Error | CLD | Rec% | Lower | Upper R | RPD/RER | Limit | Qual |
| WG505597 | | | | | | | | | | | | | | | | |
| WG505597PBW | PBW | 09/28/20 | | | | | | -1.6 | 1.7 | 1.9 | | | 3.8 | | | |
| WG505597LCSWB | LCSW | 09/28/20 | RC200602-10 | 9.99 | | | | 61 | 4 | 1.7 | 92 | 82 | 122 | | | |
| L61267-01DUP | DUP-RPD | 09/28/20 | | | 2.6 | 1.9 | 1.8 | 2.8 | 2.1 | 7 | | | | 7 | 20 | |
| L61267-01MSB | MS | 09/28/20 | RC200602-10 | 9.99 | 2.6 | 1.9 | 4.8 | 64 | 4.3 | 1.9 | 92 | 82 | 122 | | | |
| L61535-05DUP | DUP-RER | 09/28/20 | | | -1.9 | 2.7 | 19 | 2.2 | 5.5 | 24 | | | | 0.52 | 2 | |
| L61535-05DUP | DUP-RPD | 09/28/20 | | | 6.1- | 2.7 | 19 | 2.2 | 5.5 | 24 | | | | 2733 | 20 | RG |
| Radium 226, total | le. | | M903.1 | | | | | | | | | | Units | Units: pCi/L | | |
| 0.27 | E | Poplad | NOWNO | ٥ | Sample | Li Ci | = | Forms | II. | = | ,00°C | , owo | - rough | 990/069 | ţii | 1000 |
| 9 100 | adk. | Allanysed | | 9 | Odillo | 5 | H | | | | 0/ 00/1 | | | | | - BD |
| WG505137 | | | | | | | | | | | | | | | | |
| WG505137PBW | PBW | 09/23/20 | | | | | | .03 | 0.1 | 0.11 | | | 0.22 | | | |
| WG505137LCSW | LCSW | 09/23/20 | PCN61539 | 20 | | | | 14 | 0.5 | 0.1 | 20 | 43 | 148 | | | |
| L61175-04DUP1 | DUP-RER | 09/23/20 | | | 0.05 | 0.12 | 0.13 | <u></u> | 0.1 | 0.12 | | | | 0.32 | 7 | |
| L61175-04DUP1 | DUP-RPD | 09/23/20 | | | 0.05 | 0.12 | 0.13 | √. | 0.1 | 0.12 | | | | 29 | 20 | RG |
| L61189-01MS | MS | 09/23/20 | PCN61539 | 20 | 0.12 | 0.12 | 0.12 | 16 | 0.48 | 0.07 | 6/ | 43 | 148 | | | |
| L61271-01DUP2 | DUP-RPD | 09/23/20 | | | 0.29 | 0.1 | 0.39 | .38 | 0.2 | 0.2 | | | | 27 | 20 | RG |
| L61271-01DUP2 | DUP-RER | 09/23/20 | | | 0.29 | 0.1 | 0.39 | .38 | 0.2 | 0.2 | | | | 0.4 | 7 | |
| | | | | | | | | | | | | | | | | |

(800) 334-5493

JDS Hydro Consultants, Inc.

ACZ Project ID: **L61347**

Radiochemistry QC Summary

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Units: pCi/L M904.0 Radium 228, total

| Qual | | RG | | | | | RG | Z E |
|--------------------------|----------|--------------|----------------|----------------|--------------|-------------|--------------|-------------|
| Limit | | 20 | 2 | 2 | | | 20 | |
| Rec% Lower Upper RPD/RER | | 24 | 0.24 | 0.49 | | | 26 | |
| Upper | | | | | 123 | 0.72 | | 123 |
| Lower | | | | | 47 | | | 47 |
| | | | | | 112 | | | 130 |
| ПГР | | 2.4 | 2.4 | 1. | 0.35 | 0.36 | 1.7 | 0.97 |
| Error | | ~ | ~ | 1.1 | 0.54 | 0.36 | 1.1 | 4. |
| Found | | 1.9 | 1.9 | .87 | 5.4 | .45 | .87 | 13 |
| ПГР | | 3.2 | 3.2 | 0.36 | | | 0.36 | 0.54 |
| Error | | 1.3 | 6.1 | 0.36 | | | 0.36 | 0.54 |
| Sample | | 1.5 | 1.5 | 0.3 | | | 0.3 | 0.5 |
| ОС | | | | | 4.82 | | | 9.63 |
| PCN/SCN | | | | | PCN61541 | | | PCN61541 |
| Analyzed | | 10/03/20 | 10/03/20 | 10/03/20 | 10/03/20 F | 10/03/20 | 10/03/20 | 10/03/20 F |
| Type | | DUP-RPD | DUP-RER | DUP-RER | LCSW | PBW | DUP-RPD | MS |
| ACZ ID | WG505781 | L61504-01DUP | L61504-01DUP | L61267-04DUP | WG505781LCSW | WG505781PBW | L61267-04DUP | L61267-05MS |

RadChem Extended Qualifier Report

ACZ Project ID: L61347

JDS Hydro Consultants, Inc.

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|-------------------|--------|------|--|
| L61347-01 | NG505597 | Gross Beta | M900.0 | RG | Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control. |
| | WG505137 | Radium 226, total | M903.1 | RG | Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control. |
| | WG505781 | Radium 228, total | M904.0 | M1 | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M904.0 | RG | Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control. |

REPAD.15.06.05.01

L61347-2010061359 Page 6 of 10

JDS Hydro Consultants, Inc. ACZ Project ID: L61347

No certification qualifiers associated with this analysis

L61347-2010061359 Page 7 of 10



Sample Receipt

| JDS HV | /dro | Consu | Itants. | Inc. |
|-------------|------|--------|---------|------|
| J D O I I I | , | 001130 | ntanto. | mic. |

Receipt Verification

ACZ Project ID: L61347

Date Received: 09/09/2020 12:23

Received By:

Date Printed: 9/10/2020

| | YES | NO | NA |
|---|------------|-----------|----------|
| 1) Is a foreign soil permit included for applicable samples? | | | Χ |
| 2) Is the Chain of Custody form or other directive shipping papers present? | X | | |
| 3) Does this project require special handling procedures such as CLP protocol? | | Х | |
| 4) Are any samples NRC licensable material? | | | X |
| 5) If samples are received past hold time, proceed with requested short hold time analyses? | X | | |
| 6) Is the Chain of Custody form complete and accurate? | X | | |
| 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? | | Χ | |
| Samples/Containers | | | |
| | YES | NO | NA |
| 8) Are all containers intact and with no leaks? | X | | |
| 9) Are all labels on containers and are they intact and legible? | X | | |
| 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time? | X | | |
| 11) For preserved bottle types, was the pH checked and within limits? 1 | X | | |
| 12) Is there sufficient sample volume to perform all requested work? | X | | |
| 13) Is the custody seal intact on all containers? | | | Х |
| 14) Are samples that require zero headspace acceptable? | | | Х |
| 15) Are all sample containers appropriate for analytical requirements? | X | | |
| 16) Is there an Hg-1631 trip blank present? | | | X |
| 17) Is there a VOA trip blank present? | | | X |
| 18) Were all samples received within hold time? | Χ | | |
| | NA indicat | es Not Ap | plicable |

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

| Cooler Id | Temp(°C) | Temp Criteria(°C) | Rad(µR/Hr) | Custody Seal Intact? |
|-----------|----------|----------------------|------------|----------------------|
| | | | | |
| 4817 | 5.5 | NA | 15 | Yes |

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

REPAD LPII 2012-03



Sample Receipt

JDS Hydro Consultants, Inc.

ACZ Project ID: L61347

Date Received: 09/09/2020 12:23

Received By:

Date Printed: 9/10/2020

REPAD LPII 2012-03

L61347-2010061359 Page 9 of 10

The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

| ACZ Laborato 2773 Downhill Drive Steamboat Springs, CO | ries, Inc. | 51347 | CHAI | N of CUSTODY |
|--|--|--|--|--|
| Report to: | 0 00407 (800) 334-5493 | | | |
| | 1/ | , , , , , , , , , , , , , , , , , , , | 50 1 i | 1 |
| Signature Sign | | Address: 5 | 540 Tech | Center Dr |
| Company: The Hydro (or E-mail: SSChwerke Pilkh | | <u> </u> | rado Spri | 25,CO B0919 |
| | ydro e com | Telephone: | 119-321- | 5341 |
| Copy of Report to: | | <u>-</u> | | |
| Name: John Mc Ginn | | E-mail: 1 | neginnej | 1shydro a com |
| Company: TDS-Hydro | | Telephone: | 719-227- | 4shydro.com |
| Invoice to: | | | | |
| Name: Stephanie Sch | werke | Address: | 5540 Tech | Center Dr |
| Company: JDS-14ydro | | | rado | (0.44 4) |
| E-mail: SSchwenke@jlshyd | ro.com | Telephone: | | |
| If sample(s) received past holding time (H | T), or if insufficient HT re | emains to comp | lete | YES X |
| analysis before expiration, shall ACZ proc | eed with requested shor | t HT analyses? | | NO |
| If "NO" then ACZ will contact client for further instruction. If neither Are samples for SDWA Compliance Monit | oring? | Yes | No X | ed, and data will be qualified |
| If yes, please include state forms. Results | | | | |
| Sampler's Name: Samp | oler's Site Information | State | | Time Zone MBT |
| *Sampler's Signature: | *I attest to the auther tampering with the sa | iticity and validity of this ample in anyway, is cons | sample. I understand that inten- idered fraud and punishable by t | tionally mislabeling the time/date/location or State Law. |
| PROJECT INFORMATION | | ANALY | SES REQUESTED (attach | list or use quote number) |
| Quote #: DW - PADC.H | EM . | S S | 48 | |
| PO#: | | aine | \$ | |
| Reporting state for compliance testing: | | of Containers | \$ | |
| Check box if samples include NRC licensed n | naterial? | of c | % | |
| | ATE:TIME Matrix | # 05 | ₺ | |
| # 2-Retreatest | 20 8:40am RAW | 1 | | |
| # 2-RetreatTest | 8:4lan | 1 | | |
| A 3-RetreatTest V | 8:047an | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Matrix SW (Surface Water) GW (Ground Water) | ater), WW (Waste Water) D | N (Drinking Water) | · SL (Sludge) · SO (Soil) | · OL (Oil) · Other (Specify) |
| REMARKS | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Please refer to ACZ's terms & conditions located on the reverse side of this COC. | | | | |
| RELINQUISHED BY: | DATE:TIME | | CEIVED BY: | DATE:TIME |
| Stockenie Churchie | 9/8/20 9:30cm | | | |
| | 110100 11300 | | -//- | 9/9/20 12:23 |
| | | | | |

Appendix F

Appendix F Sterling Ranch Metropolitan District #1 Tabulation of Commitments vs. Supply within SRMD#1 Service Area Update February 26, 2021

Sterling Ranch Water Supply

| | | Summary of | Summary of | |
|----------------------|--|--------------------|----------------------|--|
| | | Existing | Projected | |
| | | Available | Available | |
| | | Supplies | Supplies upon | |
| | | | Resolution of | |
| | | | Pending Case | |
| | | | | |
| | | Acre-Feet 300 Year | Acre-Feet 300 - Year | |
| | Existing Available Supplies summarized from From Table 2 | | Non UBS | 0.1 |
| | The Ranch Onsite (UBS) | | | Onsite-must remain in UBS 245 AF |
| | | | | |
| | Sterling Ranch Onsite | 371.47 | | OnsiteOriginal report |
| | Sterling Ranch On-Site Aug Case 20 CW 3059 | | | Onsite NNT Augmented 20 CW 3059 |
| lary | Off Site Water Owned and Available for use on Sterling Ranch | | -178.67 | Onsite 1447 Talgarence 20 GW 2005 |
| E E | Commit to Retreat | | -176.07 | Transfer to Retreat |
| 'Su | Commit to receive | 10.17 | | |
| pply | | | | |
| Su | Sterling Ranch Available Supply (300 year) | 533.94 | | |
| Water Supply Summary | | | | |
| ×× | | | | |
| | Retreat Onsite (Central System Only) ** | 42.76 | | Onsite |
| | Commit from Sterling Ranch | 16.19 | | Transfer from Sterling |
| | | 58.95 | | |
| | Total Currently Available Supply plus Retreat Water | 592.89 | | |
| | Sterling Ranch Metropolitan District #1 | Total AF | 697.39 | Available Supply Pending Case 20 CW 3059 |
| | | | | *** |
| | Sun | nmary of Continger | nt Available Sunnli | 2 |
| | Sun | Continger | at 11 anabic Suppli | <u>~~</u> |
| | McCune Off-site (under Contract) | 391.33 | | |
| | (| | | |
| | Pending Cases from Above | 283.16 | -178.67 | Pending Case 20 CW 3059 |
| | Off-site Bar-X (under contract to be acquired over time) | 692.60 | | Net Bar-X after Aug of On site Sterling Under Contract |
| | Total Contingent Supplies | 1367.10 | | |
| | | | | |
| | Sterling Ranch Metropolitan District #1 | Total AF | 2064.48 | Total Currently Available and Contingent Water |
| | | | | |

Sterling Ranch Metropolitan District No. 1 Water Commitments

| Analysis of Water Commitments | | | | | | | |
|-------------------------------|--|-------------------------|-------------------------------|--|---|-------------------------|---|
| | | Preliminary Commitments | | | Final Commitments contained in prior commitment | | |
| | Development | Commitment SFE | Supply / Commitment Acre-Feet | Letter or Summary Date | Commitment SFE | Commitment Acre-Feet | Letter or Summary Date |
| Supply | | SEL | Acre-ret | Date | SIL | Acre-rece | Date |
| Ins | Retreat Available Supply from Above | | 42.76 | | | | |
| Commitments | The Retreat at TimberRidge Preliminary Plan (Central System Only) | 167 | -58.951 | April 2018 Report Supplement Nov 2020 | | | |
| | Final #1 Final #2 | | | | 59 SFE 78 SFE | 20.827 27.53 | 23-Aug-20 April 30,2021 |
| Remaini ng Excess | Excess Supply for Retreat at TimberRidge Service Area | | -16.19 | | | | |
| <u>^</u> | Sterling Ranch Available Supply from Legal Supply | | 371.47 | | | | |
| Supply | Off Site Water Owned and Available for use on Sterling Ranch | | 178.67 | | | | |
| | Sterling Ranch Preliminary Plan Phase One | 726 | -255.96 | June 2015 Report/Summary | | | |
| | Sterling Ranch Filing #1 | | | Update February 2019 | 0 | 0 | Tracts Only |
| | | | | | | | |
| | Tract BB (10.545) Branding Iron at Sterling Ranch Filing No. 1 Branding Iron Filing No. 2 | | | | 51 88 | 17.850 31.07 | Summary and Letter Revised Feb 20, 2020 |
| | | | | | | | School13 SFE/75 Residential) |
| | Sterling Ranch Filing #2 | | | | 49 | 21.59 | Includes 4.29 AF Irrigation |
| ents | (49 SF lots with 4.29 AF landscaping) | | | | (61 SFE w irrigation) | | Revised Jan 21, 2021 |
| Commitments | Tract G (19.574) Homestead at Sterling Ranch Filing No. 1 | | | | 72 | 25.416 | |
| Con | Tract E (29.658) Homestead at Sterling Ranch Filing No. 2 | | | | 104 | 36.712 | 20-Feb-19 |
| | Copper Chase at Sterling Ranch | | | | 132 | 46.596 | 21-Feb-19 |
| | Sterling Ranch Preliminary Plan Phase Two | 214.5 | -75.719 | July, 2020 | 496 | 179.234 | School commitment (13 SFE) |
| | · | | | Re-issue Feb 26, 2021 | | | contained in Branding Iron Filing #2 above |
| | | | | | | | Includes Lift Station |
| | Homestead North at Sterling Ranch Preliminary Plan | 147 | -62.47 | | 147 | 62.47 | Letter November 4, 2020 |
| | | | | | | includes | 10.58 AFs irrigation |
| | | | | | | | Update Letter Jan 21, 2021 |
| Excess Supply | Excess Un-committed Water Supply for Sterling Ranch Service | | 139.79 | | | | |
| Supply | The Ranch Available Supply from Above | | 0.00 | | | | |
| Commitments | The Ranch Preliminary Plan There are no Preliminary plans yet filed in The Ranch | 0 | 0 | | | | |
| Remaini ng Excess | The Ranch Service Area | | 0.00 | | | | |
| | | | | | | | |
| | | | l . | | | | |

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

 $^{{}^{\}star}\,Water\,derived\,from\,within\,the\,UBS\,cannot\,be\,applied\,outside\,the\,UBS\,without\,separate\,export\,order.$

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

Appendix G

WATER SUPPLY INFORMATION SUMMARY

Section 30-28-133,(d), C.R.S. requires that the applicant submit to the County, "Adequate evidence that a Water supply that is sufficient in terms of quantity, quality, and dependability will be available to ensure an ade

| 1. NAME OF DEVELOPMENT AS PROPOSED <u>Retreat at TimberRidge Filing No. 2</u> | | | | | |
|---|----------------------------------|--|--|--|--|
| 2. LAND USE ACTION Final Plat | | | | | |
| 3. NAME OF EXISTING PARCEL AS RECORDED | <u>N/A</u> | | | | |
| SUBDIVISION <u>See Above</u> FILING <u>Final</u> | BLOCK All | Lot <u>All</u> | | | |
| 4. TOTAL ACERAGE 75.829 5. NUMBER OF LOTS PROPO | 9 <u>0</u> | PLAT MAPS ENCLOSED YES | Final Plat Separate Cover | | |
| 6. PARCEL HISTORY - Please attach copies of deeds, plats, or other evidence or docum | entation. (In submittal package) | | | | |
| A. Was parcel recorded with county prior to June 1, 1972? | ☐ YES ☑ | NO | | | |
| B. Has the parcel ever been part of a division of land action since June 1, 19 | 72? | ✓ YES ✓ NO | | | |
| If yes, describe the previous action | | | | | |
| 7. LOCATION OF PARCEL - Include a map deliniating the project area and tie to | a section corner. (In submittal) | | | | |
| OF SECTION 27 and 28 TOWNSHIP 12 OF SECTION TOWNSHIP | | N✓S | RANGE <u>65</u> | | |
| OF 1SECTION TOWNSHIP | | | | | |
| PRINCIPAL MERIDIAN: | □ N.M. □ UTE | COSTILLA | | | |
| 8. PLAT - Location of all wells on property must be plotted and permit numbers pr | rovided. | | | | |
| Surveyors plat | □ NO | If not, scaled hand -drawn sketch | □ NO N/A | | |
| 9. ESTIMATED WATER REQUIREMENTS - Gallons per Day or Acre Foot per Ye | ear | 10. WATER SUPPLY SOURCE | DENVER BASIN | | |
| | | ✓ EXISTING DEVELOPED | ☐ NEW WELLS | | |
| HOUSEHOLD USE # 1 * 78 of units 24,581 | GPD 27.53 | AF WELLS SPRING WELL PERMIT NUMBERS | Proposed Aquifers - (Check One) Alluvial Upper Arapahoe | | |
| HOUSEHOLD USE #2 ** of units 3,142 | 2 GPD 3.84 | AF | Upper Dawson Lower Arapahoe | | |
| COMMERCIAL USE #Acres | GPD | AF <u>LFH 80131-F</u> | Lower Dawson Laramie Fox Hills | | |
| | | Arapahoe 80132-F | | | |
| IRRIGATION # *** acres | GPD | | Denver Dakota | | |
| | | Individual 17CW3002 and 18CW3002 | Other | | |
| STOCK WATERING # of head | GPD | AF | | | |
| AT. | 222 | ASSOCIATION | WATER COURT DECREE CASE NUMBERS | | |
| OTHER | GPD | AF COMPANY | 08 CW-113; 08 CW -018 | | |
| TOTAL 27,723 | GPD 31.37 | ✓ DISTRICT | <u>Numerous</u> | | |
| * Household Use includes Indoor at 0.18 AF/SFE and .173 AF | _ | | <u>Individual 17CW3002 and 18CW 3002</u> | | |
| ** The large rural lots were estimated to require 0.32 | 2 AF/unit in the | NAME Sterling Ranch Metropolitan Dis | NAME Sterling Ranch Metropolitan District #1 | | |
| 18CW 3002 augmentation plan. | | LETTER OF COMMITMENT FOR SERVICE YES NO | | | |
| included in St 11. ENGINEER'S WATER SUPPLY REPORT | _ | OLIVIOL . | and the second state of th | | |
| 11. ENGINEER'S WATER SUPPLY REPORT YES NO If yes, please forward with this form. (This may be required befor our review is completed) 12. TYPE OF SEWAGE DISPOSAL SYSTEM Central Water and Sewer for 78 urban lots | | | | | |
| CENTRAL CYCTEM DISTRICT NAME. | | | | | |
| | iny well lots | Sterling Nation Metropolitan District #1 | | | |
| LAGOON VAULT - LOCATION SEWAGE HAULED TO: | | | | | |
| □ ENGINEERED SYSTEM (Attach a copy of engineering design) □ OTHER: | | | | | |