Silver Creek

Green Analytical Laboratories

GAL ID No.: 1104-079-01

May 6, 2011

Town of Rico
PO Box 9
Rico, CO 81332
Attention: Mike England

Project Name: 2nd Qtr VOC's & Nitrates
Project Number: PWSID#CO 0117700
Date Received: 04/19/11

This is to transmit the attached analytical report. The analytical data and information contained therein was generated using specified or selected methods contained in references, such as Standard Methods for the Examination of Water and Wastewater, 18th & 19th editions, and Methods for Determination of Organic Compounds in Drinking Water, EPA-600/4-79-020.

Samples were received by Green Analytical Laboratories in good condition on 04/19/11.

If you should have any questions or comments regarding this report, please do not hesitate to call.

Sincerely,

Jacob L. Miller
Technical Director

Enclosure

75 Suttle Street, Durango, Colorado 81303
Telephone (970) 247-4220 Fax (970) 247-4227

Green Analytical Laboratories
75 Suttle Street
Durango, CO 81303

GAL I.D.: **1104-079-01**
Date Received: 04/19/11
Date Reported: 05/06/11
QC Batches:

Town of Rico
PO Box 9
Rico, CO 81332
Attention: Mike England

PROJECT NAME: 2nd Qtr VOC's & Nitrates
PROJECT NUMBER: PWSID#CO 0117700
SAMPLE I.D.: EP01 - Silver Creek

Sample Date: 04/19/11
Sample Matrix: Water

Analytical Report

RESULTS

PARAMETER	METHOD	REPORT LIMIT	RESULT	UNITS	DATE ANALYZED	ANALYST
Nitrate/Nitrite as N	353.2	0.02	0.09	mg/L	05/04/11	kj
Nitrate as N	Calc.	0.02	0.09	mg/L	05/04/11	kj
Nitrite as N	353.3	0.02	<0.02	mg/L	04/18/11	kj
VOC's	524.2		Attached			

Jacob L. Miller, Technical Director

Colorado Department of Public Health and Environment

Colorado Department of Public Health and Environment
Compliance Assurance & Data Management Unit

REPORTING FORM FOR NITRATE OR NITRITE AS NITROGEN ANALYSES

SAMPLER: FILL OUT ONE FORM - FOR EACH INDIVIDUAL SAMPLING POINT

Are these results to be used to fulfill compliance monitoring requirements? YES [X] or NO [ ]
Is this a check or confirmation sample? [ ] YES [X] NO

PWSID CO0 112200 COUNTY: Dolores DATE COLLECTED: 4 / 19 / 11

SYSTEMS NAME: Town of Rico

SYSTEM MAILING ADDRESS: PO Box 9 (Street address/PO Box) Rico (CITY) Colo. (STATE) 81332 (ZIP)

CONTACT PERSON: Mike England PHONE: (970) 967-2863

SAMPLE COLLECTED BY: Mike England TIME COLLECTED: 8:15 (am)/pm

ENTRY POINT (Finished Water) SAMPLE [X] SOURCE WATER SAMPLE [ ]

FOR ENTRY POINT SAMPLES PLEASE INDICATE: Chlorinated [ ] Other Treatment [ ]
Finished—Not Treated (No chlorine or other treatment) [X]

STATE ENTRY POINT CODE: EP 01 SOURCE(S) REPRESENTED: Silver Creek

For Laboratory Use Only Below This Line

LABORATORY SAMPLE # 1104-079-01 CLIENT NAME or ID# Town of Rico

LABORATORY NAME Green Analytical Laboratories

LAB PHONE # (970) 247-4220 DATE RECEIVED IN LABORATORY 04/19/11

COMMENTS:

PARAMETER	RESULT	UNITS	MCL	STANDARD METHOD	LAB MDL	DATE ANALYZED
NITRATE as N	0.09	mg/L	10.0 mg/L	353.2/Calc	0.02 mg/L	05-04-11
NITRITE as N	<0.02	mg/L	1.0 mg/L	353.2	0.02 mg/L	04-18-11

Reviewed & Approved by — Technical Director (Title) — 05/06/11 (Date)

MAIL RESULTS TO: CDPHE, WQCD-CADM
4300 Cherry Creek Drive South
Denver, CO 80246-1530

FAX: 303-782-0390

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 03, 2011

Debbie Zufelt

Green Analytical Laboratories

75 Suttle Street

Durango, CO 81303

RE: TOWN OF RICO

Enclosed are the results of analyses for samples received by the laboratory on 04/21/11 10:45.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Colorado Department of Public Health and Environment
Compliance Assurance & Data Management Unit

REPORTING FORM FOR ORGANIC CONTAMINANTS ANALYSES

SAMPLER: FILL OUT ONE FORM FOR EACH SAMPLE

Are these results to be used to fulfill compliance monitoring requirements? YES [X] or NO [ ]

Is this a check or confimation sample? YES [ ] or NO [X]

PWSID CO0 117700 COUNTY: DOLORES DATE COLLECTED: 04/19/11

SYSTEM NAME: TOWN OF RICO

SYSTEM MAILING ADDRESS: PO BOX 9 RICO, CO 81332
Street address/PO Box CITY STATE ZIP

CONTACT PERSON: MIKE ENGLAND PHONE: 970-967-2863

SAMPLE COLLECTED BY: ME TIME COLLECTED: 8:00 am

ENTRY POINT (Finished Water) SAMPLE [X] SOURCE WATER SAMPLE [ ]

FOR ENTRY POINT SAMPLE PLEASE INDICATE: Chlorinated [ ] Other Treatment [ ]
Finished - Not Treated (No chlorine or other treatment) [X]

STATE ENTRY POINT CODE: EP 001 SOURCE(S) REPRESENTED: SILVER CREEK

DO SAMPLES NEED TO BE COMPOSITED BY THE LABORATORY? YES [ ] NO [X]

NOTE: CHECK OR CONFIRMATION SAMPLES CANNOT BE COMPOSITED

For Laboratory Use Only Below This Line

LABORATORY SAMPLE #: H100819-01 CLIENT NAME or ID#: SILVER CREEK

LABORATORY NAME: Cardinal Laboratories

LAB PHONE #: (575) 393-2326 DATE RECEIVED IN LABORATORY: 04/21/11

COMMENTS:

Lab Number: H100819-01 PWISD CO0 117700

REGULATED PHASE I, II, V ORGANIC CHEMICALS - VOCs

UNITS MUST BE REPORTED IN µg/L

CONTAMINANT	CAS #	RESULT µg/L	MCL µg/L	STANDARD METHOD	Lab Report Limit µg/L	Lab MDL µg/L	BLANK RESULT
1,1,1-Trichloroethane	71-55-6	<1.00	200	524.2	1.00	0.160	<1.00
1,1,2-Trichloroethane	79-00-5	<1.00	5	524.2	1.00	0.240	<1.00
1,1-Dichloroethene	75-35-4	<1.00	7	524.2	1.00	0.220	<1.00
1,2,4-Trichlorobenzene	120-82-1	<1.00	70	524.2	1.00	0.210	<1.00
1,2-Dichlorobenzene	95-50-1	<1.00	600	524.2	1.00	0.130	<1.00
1,2-Dichloroethane	107-06-2	<1.00	5	524.2	1.00	0.200	<1.00
1,2-Dichloropropane	78-87-5	<1.00	5	524.2	1.00	0.220	<1.00
1,4 Dichlorobenzene	106-46-7	<1.00	75	524.2	1.00	0.160	<1.00
Benzene	71-43-2	<1.00	5	524.2	1.00	0.140	<1.00
Carbon tetrachloride	56-23-5	<1.00	5	524.2	1.00	0.170	<1.00
Chlorobenzene	108-90-7	<1.00	100	524.2	1.00	0.110	<1.00
cis-1,2-Dichloroethene	156-59-2	<1.00	70	524.2	1.00	0.270	<1.00
Ethylbenzene	100-41-4	<1.00	700	524.2	1.00	0.0700	<1.00
Methylene chloride	75-09-2	<1.00	5	524.2	1.00	0.690	<1.00
Styrene	100-42-5	<1.00	100	524.2	1.00	0.110	<1.00
Tetrachloroethene	127-18-4	<1.00	5	524.2	1.00	0.250	<1.00
Toluene	108-88-3	<1.00	1000	524.2	1.00	0.210	<1.00
Total Xylenes	1330-20-7	<3.00	10000	524.2	3.00	0.270	<3.00
trans-1,2-Dichloroethene	156-60-5	<1.00	100	524.2	1.00	0.210	<1.00
Trichloroethene	79-01-6	<1.00	5	524.2	1.00	0.220	<1.00
Vinyl chloride	75-01-4	<1.00	2	524.2	1.00	0.230	<1.00

Lab Number: H100819-01 PWISD CO0 117700

UNREGULATED ORGANIC CHEMICALS - VOCs

UNITS MUST BE REPORTED IN µg/L

CONTAMINANT	CAS #	RESULT µg/L	MCL µg/L	STANDARD METHOD	Lab Report Limit µg/L	Lab MDL µg/L	BLANK RESULT
1,1,1,2-Tetrachloroethane	630-20-6	<1.00		524.2	1.00	0.0800	<1.00
1,1,2,2-Tetrachloroethane	79-34-5	<1.00		524.2	1.00	0.160	<1.00
1,1-Dichloroethane	75-34-3	<1.00		524.2	1.00	0.220	<1.00
1,1-Dichloropropene	563-58-6	<1.00		524.2	1.00	0.140	<1.00
1,2,3-Trichlorobenzene	87-61-6	<1.00		524.2	1.00	0.180	<1.00
1,2,3-Trichloropropane	96-18-4	<2.50		524.2	2.50	1.94	<2.50
1,2,4-Trimethylbenzene	95-63-6	<1.00		524.2	1.00	0.0900	<1.00
1,3,5-Trimethylbenzene	108-67-8	<1.00		524.2	1.00	0.120	<1.00
1,3-Dichlorobenzene	541-73-1	<1.00		524.2	1.00	0.210	<1.00
1,3-Dichloropropane	142-28-9	<1.00		524.2	1.00	0.180	<1.00
2,2-Dichloropropane	594-20-7	<1.00		524.2	1.00	0.170	<1.00
2-Chlorotoluene	95-49-8	<1.00		524.2	1.00	0.120	<1.00
4-Chlorotoluene	106-43-4	<1.00		524.2	1.00	0.140	<1.00
Bromobenzene	108-86-1	<1.00		524.2	1.00	0.130	<1.00
Bromochloromethane	74-97-5	<1.00		524.2	1.00	0.270	<1.00
Bromomethane	74-83-9	<1.00		524.2	1.00	0.120	<1.00
Chloroethane	75-00-3	<1.00		524.2	1.00	0.220	<1.00
Chloromethane	74-87-3	<1.00		524.2	1.00	0.180	<1.00
cis-1,3-Dichloropropene	10061-01-5	<1.00		524.2	1.00	0.190	<1.00
Dibromomethane	74-95-3	<1.00		524.2	1.00	0.150	<1.00
Dichlorodifluoromethane	75-71-8	<1.00		524.2	1.00	0.100	<1.00
Hexachlorobutadiene	87-68-3	<1.00		524.2	1.00	0.260	<1.00
Isopropylbenzene	98-82-8	<1.00		524.2	1.00	0.0800	<1.00
Naphthalene	91-20-3	<1.00		524.2	1.00	0.170	<1.00
n-Butylbenzene	104-51-8	<1.00		524.2	1.00	0.0900	<1.00
n-Propylbenzene	103-65-1	<1.00		524.2	1.00	0.110	<1.00
p-Isopropyltoluene	99-87-6	<1.00		524.2	1.00	0.0900	<1.00
sec-Butylbenzene	135-98-8	<1.00		524.2	1.00	0.110	<1.00
tert-Butylbenzene	98-06-6	<1.00		524.2	1.00	0.140	<1.00
trans-1,3-Dichloropropene	10061-02-6	<1.00		524.2	1.00	0.180	<1.00
Trichlorofluoromethane	75-69-4	<1.00		524.2	1.00	0.200	<1.00
THMs							

Lab Number: H100819-01 PWISD CO0 117700

THMs							
Bromodichloromethane	75-27-4	<1.00		524.2	1.00	0.220	<1.00
Bromoform	75-25-2	<1.00		524.2	1.00	0.210	<1.00
Chloroform	67-66-3	<1.00		524.2	1.00	0.210	<1.00
Dibromochloromethane	124-48-1	<1.00		524.2	1.00	0.210	<1.00

Codes used:

NT = Not Tested for compound
Lab MDL = Laboratory Method Detection Level
MCL = Maximum Contaminant Level

µg/L = Micrograms per Liter
BDL = Indicates that the compound was analyzed for, but was below the Lab MDL
Lab Report Limit = Level of Quantitation (LOQ)

Celey D. Keene

Lab Director/Quality Manager 05/03/2011

Laboratory Results Reviewed & Approved by Title Date

MAIL RESULTS TO: CDPHE, WQCD-CADM B-2
4300 Cherry Creek Drive South
Denver, CO 80246-1530

FAX: 303-758-1398

Cardinal

CHAIN OF CUSTODY RECORD

Page ____ of ____

Client: GREEN ANALYTICAL
Contact: DEBBIE ZUFELT
Address: 75 SUTTLE ST
DURANGO, CO 81303
Phone Number: 970-247-4220
FAX Number: 970-247-4227

NOTES:
1) Ensure proper container packaging.
2) Ship samples promptly following collection.
3) Designate Sample Reject Disposition.

PO# GA11-0816
Project Name: Town of Rico

Table 1. – Matrix Type
1 = Surface Water, 2 = Ground Water
3 = Soil/Sediment, 4 = Rinsate, 5 = Oil
6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY
GAL JOB #

Samplers Signature: Mike England

PLEASE CALL WITH ANY QUESTIONS

Lab Name: Green Analytical Laboratories (970) 247-4220 FAX (970) 247-4227
Address: 75 Suttle Street, Durango, CO 81303

Sample ID	Collection		Miscellaneous				Preservative(s)						Analyses Required										Comments
	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4	NAOH	Other (Specify)	VOCs 8260										
H100819																							
1A-C 1. EP001	04.19.11	0800	ME	SW	3	N			✓				✓										1104-079-01
2.																							
3.																							
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Kelsie Tell	04.20.11	1600	Jodi Henson	4/20/11	15:45
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

* Sample Reject: [ ] Return [ ] Dispose [ ] Store (30 Days)

2°C #26

Colorado Department of Public Health and Environment

Colorado Department of Public Health and Environment
Compliance Assurance & Data Management Unit

REPORTING FORM FOR ORGANIC CONTAMINANTS ANALYSES

SAMPLER: FILL OUT ONE FORM FOR EACH SAMPLE

Are these results to be used to fulfill compliance monitoring requirements? YES ☒ or NO ☐

Is this a check or confirmation sample? ☐ YES ☒ NO

PWSID CO0 112700 COUNTY: Dolores DATE COLLECTED: 4 / 19 / 8:00 am

SYSTEMS NAME: Town of Rico

SYSTEM MAILING ADDRESS: PO Box 9 (Street address/PO Box) Rico (CITY) Co (STATE) 81332 (ZIP)

CONTACT PERSON: Mike England PHONE: (970) 967-2863

SAMPLE COLLECTED BY: Mike England TIME COLLECTED: 8:00 (am)/pm

ENTRY POINT (Finished Water) SAMPLE ☒ SOURCE WATER SAMPLE ☐

FOR ENTRY POINT SAMPLE PLEASE INDICATE: Chlorinated ☐ Other Treatment ☐
Finished—Not Treated (No chlorine or other treatment) ☒

STATE ENTRY POINT CODE: EP 01 SOURCE(S) REPRESENTED: Silver Creek

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DO SAMPLES NEED TO BE COMPOSITED BY THE LABORATORY? YES ☐ NO ☒

NOTE: CHECK OR CONFIRMATION SAMPLES CANNOT BE COMPOSITED

For Laboratory Use Only Below This Line

LABORATORY SAMPLE #: H100819-01 CLIENT NAME or ID# Silver Creek

LABORATORY NAME Cardinal Laboratories

LAB PHONE #: (575) 393-2326 DATE RECEIVED IN LABORATORY 04/21/11

COMMENTS: Analyzed 04/29/11.

CHAIN OF CUSTODY RECORD

Page 1 of 1

Client: Town of Rico
Contact: Mike England
Address: PO Box 9
Rico, CO 81332
Phone Number: 970-967-2863
FAX Number: 970-967-2862

NOTES:
1) Ensure proper container packaging.
2) Ship samples promptly following collection.
3) Designate Sample Reject Disposition.

PO#
Project Name: 2nd Quarter VOC's & Nitrate
Samplers Signature: Mike England

Table 1. – Matrix Type
1 = Surface Water, 2 = Ground Water
3 = Soil/Sediment, 4 = Rinsate, 5 = Oil
6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY
GAL JOB # 1104-079

Lab Name: Green Analytical Laboratories (970) 247-4220 FAX (970) 247-4227
Address: 75 Suttle Street, Durango, CO 81303

Sample ID	Collection: Date	Collection: Time	Misc: Collected by: (Init.)	Misc: Matrix Type From Table 1	Misc: No. of Containers	Misc: Sample Filtered ? Y/N	Preservative(s): Unpreserved (Ice Only)	Preservative(s): HNO3	Preservative(s): HCL	Preservative(s): H2SO4	Preservative(s): NAOH	Preservative(s): Other (Specify)	Analyses Required: VOC's	Analyses Required: Nitrate	Comments
01 1. VOC's	4-19-11	8:00 Am	ME	1	3	Y	✓						✓		4.2°C
2. Nitrate	4-19-11	8:15 Am	ME	1	2	Y	✓							✓	
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished by: Dawn England	Date: 4-19-11	Time:	Received by: Jessica Bell	Date: 04-19-11	Time: 1920
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

* Sample Reject: [ ] Return [ ] Dispose [ ] Store (30 Days)

.	Contaminant	AL (mg/L)	MCLG (mg/L)
(1)	Copper	1.3	1.3
(2)	Lead	0.015	Zero

2.8 Filtration (Turbidity) Treatment for Surface Water Systems

The following treatment technique requirements apply to all public water systems that use surface water or groundwater under the direct influence of surface water.

Table 2-9 Required Turbidity Levels

.	Treatment Technique	System Size (in population served)	Turbidity Level (NTU)	.
(1)	Conventional, Direct, or Membrane Filtration	All sizes	less than or equal to (≤) 0.3 NTU in at least 95% of the measurement taken each month	At no time to exceed 1 NTU
(2)	Slow Sand Filtration	All sizes	less than or equal to (≤) 1 NTU in at least 95% of the measurement taken each month	At no time to exceed 5 NTU
(3)	Diatomaceous Earth and Cartridge & Bag Filtration	All sizes	less than or equal to (≤) 1 NTU in at least 95% of the measurement taken each month	At no time to exceed 5 NTU
(4)	Other Filtration Technologies	Less than 10,000	Department approved technology must consistently achieve 99.9% (3-log) removal and/or inactivation of Giardia lamblia cysts, and 99.99% (4-log) removal and/or inactivation of viruses 99% (2-log) removal of Cryptosporidium oocysts	.