

Silver creek



**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,

A handwritten signature in blue ink, appearing to read 'J. Miller', is written over a light blue horizontal line.

Jacob L. Miller  
Technical Director

Enclosure

**Green Analytical Laboratories**  
**75 Suttle Street**  
**Durango, CO 81303**

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

**GAL I.D.:** 1104-079-01

Date Received: 04/19/11

Date Reported: 05/06/11

QC Batches:

**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		UNITS	DATE	
		LIMIT	RESULT		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  
Compliance Assurance & Data Management Unit**

Colorado Department  
of Public Health  
and Environment

**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  or NO   
Is this a check or confirmation sample?  YES  NO

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

SYSTEMS NAME: Town of Rico

SYSTEM MAILING ADDRESS: PO Box 9 Rico Colo. 81222  
Street address/PO Box CITY STATE ZIP

CONTACT PERSON: Mike England PHONE: (970) 962-2863

SAMPLE COLLECTED BY: Mike England TIME COLLECTED: 8:15 am

ENTRY POINT (Finished Water) SAMPLE  SOURCE WATER SAMPLE

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

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	LO.02	mg/L	1.0 mg/L	353.2	0.02 mg/L	04-18-11

[Signature] Technical Director Date 05/06/11  
Reviewed & Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

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

FAX: 303-782-0390

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 Hydrocarbons

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

Cardinal Laboratories is accredited 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  
Lab Director/Quality Manager

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  or NO   
PWSID COO 117700 COUNTY: DOLORIS 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  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 001 SOURCE(S) REPRESENTED: SILVER CREEK

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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Lab Number: H100819-01PWISD 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

**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)



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





*Normal*  
CHAIN OF CUSTODY RECORD

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# G A 11 - 0810  
 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		Analyses Required						
Address: 75 Suttle Street, Durango, CO 81303												
Sample ID	Date	Time	Collected by: (Init.)	Miscellaneous			Preservative(s)			Comments		
				Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL		H2SO4	NAOH
1. <u>EP001</u> <i>HI20819</i>	<u>04.19.11</u>	<u>0800</u>	<u>ME</u>	<u>SW</u>	<u>3</u>	<u>N</u>		<u>/</u>		<u>H2SO4</u>	<u>VOCs 524.2</u>	<u>1104-079-01</u>
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												
Relinquished by: <u>Koivisto</u>		Date: <u>04-20-11</u>	Time: <u>1000</u>	Received by: <u>Mike England</u>		Date: <u>4/21/11</u>	Time: <u>12:45</u>					
Relinquished by:		Date:	Time:	Received by:		Date:	Time:					

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

*20 #26*



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

Colorado Department  
of Public Health  
and Environment

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 CO# 112700 COUNTY: Dolores DATE COLLECTED: 4/19/11 8:00 am

SYSTEMS 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) 862-2863

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

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

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.



	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 ( $\leq$ ) 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 ( $\leq$ ) 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 ( $\leq$ ) 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 <i>Giardia lamblia</i> cysts, and  99.99% (4-log) removal and/or inactivation of viruses  99% (2-log) removal of <i>Cryptosporidium</i> oocysts	