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Mountain States Analytical, Inc.

Analytical Report

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

January 04, 2000

Incoming
ACT/015/002

Ms Susan White
Oil Gas & Mining State of Utah
1594 W North Temple #1210
Salt Lake City, Ut 84116-3154
(801) 538-5340 Fax: (801) 359-3940

Project: Metals Re-analysis

Work Order: 9912010

Project ID: Water Sample

Dear Ms Susan White,

Mountain States Analytical, Inc. received 1 sample on Wednesday, November 10, 1999, for the analyses presented in the following report. Please note that this report is designated as Report Number 9912010-1 and consists of 5 pages. In accordance with the inseparability requirement of Utah Administrative Code R444-14-12(10)(a), this report may not be reproduced, except in full, without the express written consent of Mountain States Analytical, Inc.

If you have any questions regarding these test results, please feel free to call.
Mountain States Analytical, Inc.

Mark W. Bostrom
Project Manager

RECEIVED
JAN 10 2000
DIVISION OF OIL, GAS & MINING

Mountain States Analytical, Inc.
1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

Analytical Report

Work Order Receipt Summary

Client:	Oil Gas & Mining State of Utah	**Report Number:**	9912010-1
Project:	Metals Re-analysis	**Date Reported:**	01/04/00
Project ID:	Water Sample	**Work Order:**	9912010

Received by:	Patty Herndon	**Date Received:**	11/10/99 00:00
Cooler Number/ID:	1/9802	**Temperature:**	8.4 °C
Thermometer ID:	2390	**Coolant Used:**	Blue Ice
Air Bill:			
Packing Material:			
Samples:	Pond		
Carrier name:	Hand Delivered		

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Shipping container sealed?	Yes ☐	No ☑	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	None submitted ☑
Water – pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Preservative:

Comments: The temperature may exceed project requirements.

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1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

Analytical Report

Sample Summary

Client:	Oil Gas & Mining State of Utah	**Report Number:**	9912010-1
Project:	Metals Re-analysis	**Date Reported:**	01/04/00
Project ID:	Water Sample	**Work Order:**	9912010

Lab Sample ID	Client Sample ID	Additional Sample Information	Matrix	Date Collected
9912010-01A	Pond (9911128)		Water	11/10/99

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Analytical Report

Holding Time Summary

Client:	Oil Gas & Mining State of Utah	**Report Number:**	9912010-1
Project:	Metals Re-analysis	**Date Reported:**	01/04/00
Project ID:	Water Sample	**Work Order:**	9912010

Sample ID	Client Sample ID	Date Collected
9912010-01A	Pond (9911128)	11/10/99 11:35

Parameter	TCLP Date	HT	Prep Date	HT	Analysis Date	HT
Metals by ICP/MS, 200.8					01/03/00	180

* - The recommended holding time was exceeded

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Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724

Analytical Report

Client:	Ms Susan White	**Report Number:**	9912010-1
	Oil Gas & Mining State of Utah	**Date Reported:**	01/04/00
	1594 W North Temple #1210	**Work Order:**	9912010
	Salt Lake City, Ut 84116-3154	**Lab Sample ID:**	9912010-01A
	801-538-5340 Fax: 801-359-3940	**Client Sample ID:**	Pond (9911128)
		Date Collected:	11/10/99
Project:	Metals Re-analysis	**Date Received:**	11/10/99 00:00
Project ID:	Water Sample	**Matrix:**	Water
Purchase Order:		**COC ID:**	19199

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
EPA 200.8: Metals by ICP/MS, 200.8, Water							
Selenium	See Attached			mg/L	1	01/03/00	N/A

U - Not detected above the MDL
J - Analyte detected below the PQL
B - Analyte detected in the associated Method Blank
E - Result is outside of quantitation range
S -Results outside normal recovery limits
R - RPD outside normal precision limits

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UTAH DEPARTMENT OF HEALTH
DIVISION OF LABORATORY SERVICES
46 North Medical Drive
Salt Lake City, Utah 84113-1105

(801)584-8400 FAX: (801)584-8486

TRANSMITTAL COVER SHEET

DATE: 1-03-00

TO: MARK BOSTRUM

AGENCY: MOUNTAIN STATES ANALYTICAL

TELEPHONE NO: 973-0050 x 3007 FAX NO: 972-6278

REF: 1999 11269

SENDER: Edward H. Sanders Total No. of Pages: 3

COMMENTS:

UTAH STATE DEPARTMENT OF HEALTH
DIVISION OF LABORATORY SERVICES
Environmental Chemistry Analysis Report

MOUNTAIN STATES ANALYTICAL
STEVEN A FISHER DIRECTOR
1645 WEST 2200 SOUTH
SALT LAKE CITY UT 84119 801-973-0050

Lab Number: 199911269 Sample Type: 04 Cost Code: 900B
Description: 9912010-01A

Site ID: Source No: 00
Sample Date: 11/10/99 Time: 11:35

Organic Review:
Inorganic Review: 01/03/00
Radiochemistry Review:
Microbiology Review:

TEST RESULTS:

T-Selenium 1.4 ug/l

QUALIFYING COMMENTS (*) on test results: NO COMMENTS

END OF REPORT

Mountain States Analytical, Inc.
1645 W. 2200 South
Salt Lake City, UT 84119-
(801) 973-0050

CHAIN-OF-CUSTODY RECORD

19991269

Subcontractor:
State of Utah Laboratory
46 N. Medical Dr.
Salt Lake City, UT

TEL: (801) 584-8469
FAX:
Acct #:

03-Dec-99

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests						
				E200.8						
9912010-01A	Water	11/10/99 11:35:00 AM	1000PHNO3	1						

Comments: Please analyze sample for Selenium by 200.8 ICP/MS. Report by 12-15-99 to Mark Bostrom at 972-6278 (fax). If you have any questions concerning this sample, contact Mark Bostrom at 973-0050 ext. 3007.

		Date/Time			Date/Time
Relinquished by:	Pam Olsen	12/03/99 1535	Received by:	Terrell Andrews	12/3/99 1535
Relinquished by:	Terrell Andrews	12/3/99 1650	Received by:	Chris Pepper MT	

DEC 3 '99 17:05

STATE OF UTAH
NATURAL RESOURCES
Division of Oil, Gas & Mining

Box 145801
SLC Ut 84114-5801

~~3 Triad Center #350 · Salt Lake City, UT 84180-1203~~ · (801) 538-5340 · Fax (801) 359-3940

PURCHASE ORDER

P.O. no. 201622

Vendor Mountain States Analytical Vendor no. _____ Date 11/9/99 1099 _____
Address _____ City _____ State _____ Zip _____

Invoice	Quantity	Description/Stock no.	Unit Price	Amount
		Water Samples		
	1	ph	7.20	7.20
	1	TDS	13.50	13.50
	1	Metals dissolved	99.00	99.00
	1	Filter Sample	9.00	9.00
	1	$NO_3 + NO_2$	45.00	45.00

Total amount $ 173.70

Contract no. _____ Emergency no. _____ Other _____

Fund	Org.	Account	Approp.	Activity	Grant	Project	Amount
100	2841	6137	REE	X6JB	CCN9	NCPMT036	

Ordered by Sharon Falvey Date 11/9/99 Total amount $ 173.70
Approved by Kathie Dillon Date 11/9/99
Received by _____ Date _____
Explanation/Inventory location _____

DNR-1 White-Accounting Canary-Vendor Pink-Accounting/Return to issuer Goldenrod-Retain
Printed on recycled paper using vegetable oil ink. an equal opportunity employer Rev. 7/94

2-23

Mountain States Analytical, Inc.
The Quality Solution

19199

Sample Chain of Custody

Client Name: DOGM Sampler: Susan White
Phone #: 538-5258 Fax #: 359-3940
Project Name / #: J.B. King
P.O. #: 201622

Sample Identification	Date Collected	Time Collected	Grab	Composite	Solid	Water	Oil	Specify:	Total of Containers	pH	TDS	NO_2/NO_3	Dissolved Metals	As, Cd, Cr, Cu, Pb, Se, B						Remarks
Pond	11/10	11:35	✓			✓				X										
Pond	11/10	11:35	✓			✓							X							

Sample relinquished by:	Date	Time	Sample received by:	Name of Shipper	Airbill No.	Date	Time
Susan M. White	11/10/99	1700					

Received by (Lab)	Date	Time	Seal Intact?

Turnaround Time Requested (please circle): Normal Rush
(Rush TAT is subject to MSAI approval and surcharge)
Report Results by: (Date)
Rush results requested by (please circle): Phone Fax
Report Results to:

Sample Receiving Comments:

MSAI USE ONLY:
Cooler ID: 9802
Cooler Temp: 8.4°C
Therm. ID: 2390
Wet Ice / Blue Ice / None
Hand Delivered: ✓
MSAI Courier:
Shipped:
Arrived in Shipping Container: Y / N
Sealed: Y / N / NA
COC Seals on Container:
PRESENT
Intact
Broken
NOT PRESENT ✓
Samples:
COC & Labels Match?
YES ✓
NO
Broken / Leaking?
YES
NO ✓
VOAs w/o headspace?
YES
NO N/A
Preservative pH:
HNO_3:
H_2SO_4: N/A
NaOH:
NaOH/ZnAC:
Correct Containers used?
YES ✓
NO
Sufficient Quantity?
YES ✓
NO

1645 West 2200 South, Salt Lake City, Utah 84119 (801) 973-0050 FAX (801) 972-6278

White Copy - Original Retain by Lab Yellow Copy - Return to Customer Pink Copy - Retain by Sampler

10 Years of Quality Service