

Appendix B
Laboratory Analysis
Results



Date: 11/29/00
Client: Daniel B. Stephens
Lab ID: 0300W04998 - 5000
Project: Norton, VA

Dear Client:

The samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Sample analyses were obtained within the method specific holding times. Practical Quantitation Limits (PQL's) are based on method requirements, and any dilutions necessary to maintain proper method response without matrix interference.

If you have any questions, please call me at (505) 326-4737.

William Lipps
IML-Farmington, NM



Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: RATLIFFE 1
Lab ID: 0300W04998
Matrix: Water
Condition: Cool/Intact

Date Received: 11/10/00
Date Reported: 11/29/00
Date Sampled: 11/09/00
Time Sampled: 1115

Table with 9 columns: Parameter, Analytical Result, Units, Units, PQL, Method, Date, Time, Init. Rows include General Parameters (Solids - Total Dissolved, Solids - Total Suspended, Sulfate) and Total Metals (Aluminum, Iron, Manganese).

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: [Handwritten Signature]



Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: BANKS 1
Lab ID: 0300W04999
Matrix: Water
Condition: Cool/Intact

Date Received: 11/10/00
Date Reported: 11/29/00
Date Sampled: 11/09/00
Time Sampled: 1355

Table with 9 columns: Parameter, Analytical Result, Units, PQL, Method, Date, Time, Init. Rows include General Parameters (Solids - Total Dissolved, Solids - Total Suspended, Sulfate) and Total Metals (Aluminum, Iron, Manganese).

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: [Handwritten Signature]



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

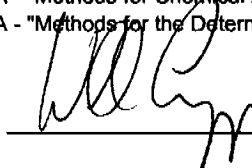
Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: BOGGS 1
Lab ID: 0300W05000
Matrix: Water
Condition: Cool/Intact

Date Received: 11/10/00
Date Reported: 11/29/00
Date Sampled: 11/06/00
Time Sampled: 0930

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	1,740	mg/L		2	EPA 160.2	11/13/00	1455	FP
Solids - Total Suspended	19	mg/L		2	EPA 160.2	11/10/00	1455	KA
Sulfate	991	mg/L		5	EPA 300.0	11/29/00	0900	KA
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	11/22/00	1459	WL
Iron	17.7	mg/L		0.02	EPA 200.7	11/22/00	1459	WL
Manganese	1.10	mg/L		0.01	EPA 200.7	11/22/00	1459	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

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Quality Control Report
Duplicate Analysis

Client: Daniel B. Stephens

Project: Norton,VA

Sample ID: BANKS 1

Lab ID: 0300W04999

Matrix: Water

Condition: Cool/Intact

Report Date: 11/29/00

Receipt Date: 11/10/00

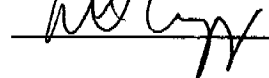
Sample Date: 11/09/00

Time Sampled: 1355

Parameter	Original Conc.	Duplicate Conc.	Relative % Diff.	PQL	Units
Solids - Total Dissolved	274	272	1	2	mg/L
Solids - Total Suspended	3	10	7**	2	mg/L
Sulfate	72	72	0	5	mg/L
Aluminum	<0.05	<0.05	NC*	0.05	mg/L
Iron	3.48	3.34	4	0.02	mg/L
Manganese	0.44	0.42	5	0.01	mg/L

*NC - Non-Calculable RPD due to value(s) less than DL ** - Difference used for results < 5 X Detection Limit

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: 



CHAIN OF CUSTODY RECORD

Client/Project Name DSSA / OSM Well Study		Project Location North Va.		ANALYSES / PARAMETERS			
Sampler: (Signature) T. Ste...		Chain of Custody Tape No. NA		No. of Containers	(FT) 54, TDS, TSS	(250 mL) Told A1, Form	Remarks
Sample No./ Identification	Date	Time	Lab Number	Matrix			
Bottle 1	11/6/00	1115	W04998	Water	2	X	
Bottle 1	11/6/00	1355	W04999	Water	2	X	
Eggs 1	11/6/00	0930	W05000	Water	2	X	
 [Signature] _____ [Signature] _____ [Signature] _____ 							
Relinquished by: (Signature) [Signature]		Date 11/9/00		Time 1515		Received by: (Signature) [Signature]	
Relinquished by: (Signature) [Signature]		Date 11/9/00		Time 1515		Received by: (Signature) [Signature]	
Relinquished by: (Signature) [Signature]		Date 11/6/00		Time 9:20		Received by: (Signature) [Signature]	

Inter-Mountain Laboratories, Inc.

- 555 Absaraka Sheridan, Wyoming 82801 Telephone (307) 674-7506
- 1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945
- 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737
- 11183 State Hwy. 30 College Station, TX 77845 Telephone (979) 776-8945

70664



December 7, 2000

Todd Stein
Daniel B. Stevens Consulting
6020 Academy Rd. NE, Suite 100
Albuquerque, NM 87109

Mr. Stein:

Enclosed please find the reports for the samples received by our laboratory for analysis on November 21, 2000.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

Thank you for choosing IML for your analytical needs!

Sincerely,



William Lipps
Assistant Lab Manager/IML-Farmington

Enclosure

xc: File



DANIEL B. STEVENS

Case Narrative

On November 21, 2000, four water samples were submitted to Inter-Mountain Laboratories - Farmington for analysis. The parameters performed on the samples are indicated on the accompanying Chain of Custody.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analysis of the samples reported herein are found in: EPA: "Methods for Chemical Analysis of Water and Wastes (MCAWW)" – EPA/600/4-79-020 – March 1983, "Methods for the Determination of Metals in Environmental Samples", Supplement I-600/R-94-111 – May, 1994.

If there are any questions regarding the information presented in this report package, please feel free to contact us at your convenience.

Sincerely,

William Lipps
Assistant Lab Manager/IML-Farmington



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

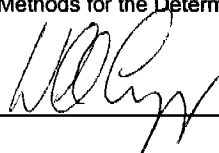
2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: Boggs 2
Lab ID: 0300W05150
Matrix: Water
Condition: Intact

Date Received: 11/21/00
Date Reported: 12/05/00
Date Sampled: 11/18/00
Time Sampled: 1515

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	1,710	mg/L		10	EPA 160.1	11/22/00	0930	FP
Solids - Total Suspended	9	mg/L		2	EPA 160.2	11/17/00	0900	KA
Sulfate	955	mg/L		5	EPA 300.0	12/01/00	1339	KA
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	12/05/00	1344	WL
Iron	0.03	mg/L		0.02	EPA 200.7	12/05/00	1344	WL
Manganese	0.88	mg/L		0.01	EPA 200.7	12/05/00	1344	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: 



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens

Project: Norton, VA

Sample ID: Ratliff 2

Lab ID: 0300W05151

Matrix: Water

Condition: Intact

Date Received: 11/21/00

Date Reported: 12/05/00

Date Sampled: 11/18/00

Time Sampled: 1425

Parameter	Analytical		PQL	Method	Analysis		
	Result	Units			Units	Date	Time
General Parameters							
Solids - Total Dissolved	430	mg/L	10	EPA 160.1	11/22/00	0930	FP
Solids - Total Suspended	14	mg/L	2	EPA 160.2	11/17/00	0900	KA
Sulfate	108	mg/L	5	EPA 300.0	12/01/00	1406	KA
Total Metals							
Aluminum	0.07	mg/L	0.05	EPA 200.7	12/05/00	1347	WL
Iron	5.71	mg/L	0.02	EPA 200.7	12/05/00	1347	WL
Manganese	0.42	mg/L	0.01	EPA 200.7	12/05/00	1347	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.

EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: _____



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens

Project: Norton, VA

Sample ID: Banks 2

Lab ID: 0300W05152

Matrix: Water

Condition: Intact

Date Received: 11/21/00

Date Reported: 12/05/00

Date Sampled: 11/18/00

Time Sampled: 1430

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	260	mg/L		10	EPA 160.1	11/22/00	0930	FP
Solids - Total Suspended	21	mg/L		2	EPA 160.2	11/17/00	0900	KA
Sulfate	72	mg/L		5	EPA 300.0	12/01/00	1416	KA
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	12/05/00	1350	WL
Iron	24.8	mg/L		0.02	EPA 200.7	12/05/00	1350	WL
Manganese	0.35	mg/L		0.01	EPA 200.7	12/05/00	1350	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.

EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: _____



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Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: Sumner 1
Lab ID: 0300W05153
Matrix: Water
Condition: Intact

Date Received: 11/21/00
Date Reported: 12/05/00
Date Sampled: 11/18/00
Time Sampled: 1605

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init
General Parameters								
Solids - Total Dissolved	250	mg/L		10	EPA 160.1	11/22/00	0930	FP
Solids - Total Suspended	<2	mg/L		2	EPA 160.2	11/17/00	0900	KA
Sulfate	7	mg/L		5	EPA 300.0	12/01/00	1425	KA
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	12/05/00	1353	WL
Iron	20.8	mg/L		0.02	EPA 200.7	12/05/00	1353	WL
Manganese	0.89	mg/L		0.01	EPA 200.7	12/05/00	1353	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: _____



Date: 12/12/00
Client: Daniel B. Stephens
Lab ID: 0300W05218
Project: Norton, VA

Dear Client:

The samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Sample analyses were obtained within the method specific holding times. Practical Quantitation Limits (PQL's) are based on method requirements, and any dilutions necessary to maintain proper method response without matrix interference.

If you have any questions, please call me at (505) 326-4737.

A handwritten signature in black ink, appearing to read 'William Lipps', is written above the printed name.

William Lipps
IML-Farmington, NM



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

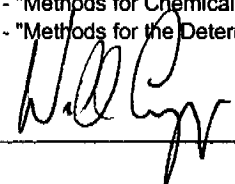
2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: Hurley #1
Lab ID: 0300W05218
Matrix: Water
Condition: Intact

Date Received: 11/22/00
Date Reported: 12/12/00
Date Sampled: 11/20/00
Time Sampled: 1418

Parameter	Analytical Result	Units	Units	PQL	Method	Analysis		
						Date	Time	Init
General Parameters								
Solids - Total Dissolved	700	mg/L		10	EPA 160.1	11/29/00	1200	KA
Solids - Total Suspended	22	mg/L		2	EPA 160.2	11/28/00	1200	KA
Sulfate	36	mg/L		5	EPA 300.0	12/05/00	1002	KA
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	12/05/00	1416	WL
Iron	12.9	mg/L		0.02	EPA 200.7	12/05/00	1416	WL
Manganese	1.51	mg/L		0.01	EPA 200.7	12/05/00	1416	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: 



CHAIN OF CUSTODY RECORD

Client/Project Name

DBS4A OSM Well Study

Sampler: (Signature)

Mike Pinner

Project Location

Woflon, Va

Chain of Custody Tape No.

NA

ANALYSES / PARAMETERS

Remarks

(17)
So₄, TDS, TSS
(x200x)
Tol AlFe, Mn

No. of Containers

2

Sample No./ Identification

#urley1

Date

11/20

Time

1418

Lab Number

Matrix

H₂O

Acquisition by: (Signature)

Mike Pinner

Acquisition by: (Signature)

Acquisition by: (Signature)

Received by: (Signature)

[Signature]

Received by: (Signature)

[Signature]

Received by laboratory: (Signature)

[Signature]

Date

Time

Date

Time

11/20/00

1953

Date

Time

11/20/00

1953

Inter-Mountain Laboratories, Inc.

555 Absaraka

Sheridan, Wyoming 82801
Telephone (307) 674-7506

1633 Terra Avenue

Sheridan, Wyoming 82801
Telephone (307) 672-8945

2906 West Main Street

Farmington, NM 87401
Telephone (505) 326-4737

11183 State Hwy. 30

College Station, TX 77845
Telephone (979) 776-8945

70737



Date: 12/15/00
Client: Daniel B. Stephens
Lab ID: 0300W05257 - 60
Project: Norton, VA

Dear Client:

The samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Sample analyses were obtained within the method specific holding times. Practical Quantitation Limits (PQL's) are based on method requirements, and any dilutions necessary to maintain proper method response without matrix interference.

If you have any questions, please call me at (505) 326-4737.

A handwritten signature in black ink, appearing to read 'William Lipps', is written over a white background.

William Lipps
IML-Farmington, NM



Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: Sumner-2
Lab ID: 0300W05257
Matrix: Water
Condition: Intact

Date Received: 11/28/00
Date Reported: 12/15/00
Date Sampled: 11/25/00
Time Sampled: 1800

Table with columns: Parameter, Analytical Result, Units, PQL, Method, Analysis Date, Time, Init. Rows include General Parameters (Solids - Total Dissolved, Solids - Total Suspended, Sulfate) and Total Metals (Aluminum, Iron, Manganese).

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement 1 - 600/R-94-111 - May, 1994.

Reviewed By: [Signature]



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: Hurley-2
Lab ID: 0300W05258
Matrix: Water
Condition: Intact

Date Received: 11/28/00
Date Reported: 12/15/00
Date Sampled: 11/25/00
Time Sampled: 1900

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	650	mg/L		10	EPA 160.1	11/29/00	1200	KA
Solids - Total Suspended	26	mg/L		2	EPA 160.2	12/01/00	1130	KA
Sulfate	37	mg/L		5	EPA 300.0	12/06/00	1018	WL
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	12/06/00	1359	WL
Iron	14.7	mg/L		0.02	EPA 200.7	12/06/00	1359	WL
Manganese	1.46	mg/L		0.01	EPA 200.7	12/06/00	1359	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: _____



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

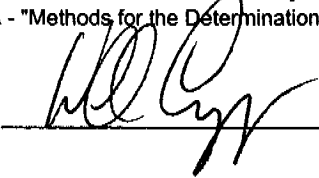
2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: Dean 1-1
Lab ID: 0300W05259
Matrix: Water
Condition: Intact

Date Received: 11/28/00
Date Reported: 12/15/00
Date Sampled: 11/26/00
Time Sampled: 1615

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	400	mg/L		10	EPA 160.1	11/29/00	1200	KA
Solids - Total Suspended	75	mg/L		2	EPA 160.2	12/01/00	1130	KA
Sulfate	145	mg/L		5	EPA 300.0	12/06/00	1018	WL
Total Metals								
Aluminum	0.07	mg/L		0.05	EPA 200.7	12/06/00	1402	WL
Iron	28.4	mg/L		0.02	EPA 200.7	12/06/00	1402	WL
Manganese	1.00	mg/L		0.01	EPA 200.7	12/06/00	1402	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: 



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens

Project: Norton, VA

Sample ID: Dean 2-1

Lab ID: 0300W05260

Matrix: Water

Condition: Intact

Date Received: 11/28/00

Date Reported: 12/15/00

Date Sampled: 11/26/00

Time Sampled: 1620

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	320	mg/L		10	EPA 160.1	11/29/00	1200	KA
Solids - Total Suspended	7	mg/L		2	EPA 160.2	12/01/00	1130	KA
Sulfate	109	mg/L		5	EPA 300.0	12/06/00	1018	WL
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	12/06/00	1410	WL
Iron	4.62	mg/L		0.02	EPA 200.7	12/06/00	1410	WL
Manganese	0.39	mg/L		0.01	EPA 200.7	12/06/00	1410	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.

EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: _____



To:

Inter-Mountain Laboratories, Inc. Date 11/26/00 Project No. _____

Client DBS&A OSM Well Study

Relinquished by Mike Devine ^{11/26/00} ₂₁₅₃

Sent by: Fed Ex DHL Other _____

Purpose of Shipment Sample Analysis

Possible Contaminants _____

Item No.	Sample No.	Analysis to be Done	Sample Container	Comments
	Summer-2	1L-504, TDS, TSS 1250ml Total Al, Fe, + Mn	2	Jced 11/25/00 1800 1 Ag
	Harley-2	"	2	Jced 11/25/00 1900 1 Ag
	Dean 1-1	"	2	Jced 11/26/00 1615 1 Ag
	Dean 2-1	"	2	Jced 11/26/00 1620 1 Ag
		PO	2	Jced

Date Received 11-28-00 by J. Williams ^{11/10}
Company Representative

Received the above articles in good condition

Except as noted _____



Date: 12/20/00
Client: Daniel B. Stephens
Lab ID: 0300W05356 - 59
Project: Norton, VA

Dear Client:

The samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Sample analyses were obtained within the method specific holding times. Practical Quantitation Limits (PQL's) are based on method requirements, and any dilutions necessary to maintain proper method response without matrix interference.

If you have any questions, please call me at (505) 326-4737.

William Lipps
IML-Farmington, NM



Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: Dean 1-2
Lab ID: 0300W05356
Matrix: Water
Condition: Intact

Date Received: 12/05/00
Date Reported: 12/20/00
Date Sampled: 12/04/00
Time Sampled: 1305

Table with 9 columns: Parameter, Analytical Result, Units, Units, PQL, Method, Date, Time, Inif. Rows include General Parameters (Solids - Total Dissolved, Solids - Total Suspended, Sulfate) and Total Metals (Aluminum, Iron, Manganese).

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: [Signature]



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

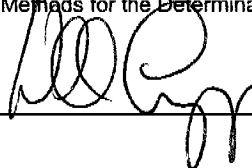
2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton, VA
Sample ID: Dean 2-2
Lab ID: 0300W05357
Matrix: Water
Condition: Intact

Date Received: 12/05/00
Date Reported: 12/20/00
Date Sampled: 12/04/00
Time Sampled: 1324

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	280	mg/L		10	EPA 160.1	12/08/00	1600	FP
Solids - Total Suspended	<2	mg/L		2	EPA 160.2	12/06/00	1100	KA
Sulfate	109	mg/L		5	EPA 300.0	12/06/00	1018	KA
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	12/19/00	1445	WL
Iron	1.84	mg/L		0.02	EPA 200.7	12/19/00	1445	WL
Manganese	0.24	mg/L		0.01	EPA 200.7	12/19/00	1445	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: 



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2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton,VA
Sample ID: Abbott 1-1
Lab ID: 0300W05358
Matrix: Water
Condition: Intact

Date Received: 12/05/00
Date Reported: 12/20/00
Date Sampled: 12/04/00
Time Sampled: 1240

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	180	mg/L		10	EPA 160.1	12/08/00	1600	FP
Solids - Total Suspended	<2	mg/L		2	EPA 160.2	12/06/00	1100	KA
Sulfate	7	mg/L		5	EPA 300.0	12/06/00	1018	KA
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	12/19/00	1448	WL
Iron	0.89	mg/L		0.02	EPA 200.7	12/19/00	1448	WL
Manganese	0.10	mg/L		0.01	EPA 200.7	12/19/00	1448	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: _____



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2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens

Project: Norton, VA

Sample ID: Abbott 2-1

Lab ID: 0300W05359

Matrix: Water

Condition: Intact

Date Received: 12/05/00

Date Reported: 12/20/00

Date Sampled: 12/04/00

Time Sampled: 1245

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	160	mg/L		10	EPA 160.1	12/08/00	1600	FP
Solids - Total Suspended	58	mg/L		2	EPA 160.2	12/06/00	1100	KA
Sulfate	15	mg/L		5	EPA 300.0	12/06/00	1018	KA
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	12/19/00	1451	WL
Iron	16.4	mg/L		0.02	EPA 200.7	12/19/00	1451	WL
Manganese	0.55	mg/L		0.01	EPA 200.7	12/19/00	1451	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.

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Reviewed By: _____



To: Inter-Mountain Laboratories, Inc. Date 12/4/00 Project No. 9290
 Client DBS&A OSM Well Study
 Relinquished by Mike Devine 12/4/00 1445

Sent by: Fed Ex DHL Other Fax - 1-505-889-0258

Purpose of Shipment Lab Analysis

Possible Contaminants N/A

Item No.	Sample No.	Analysis to be Done	Sample Container	Comments
	Dean 1-2	1L - SO ₄ , TDS, TSS 1250ml - Total Al, Fe, & Mn	1-1L 1-1250ml Bq	12/4/00 1305 W05356
	Dean 2-2	"	"	12/4/00 1324 5357
	Abbott 1-1	"	"	12/3/00 1240 5358
	Abbott 2-1	"	"	12/3/00 1245 5359

Date Received 12/5/00 by Saron Williams
 Company Representative

Received the above articles in good condition

Except as noted _____



Date: 1/25/01
Client: Daniel B. Stephens
Lab ID: 0301W00307 - 08
Project: Norton, VA

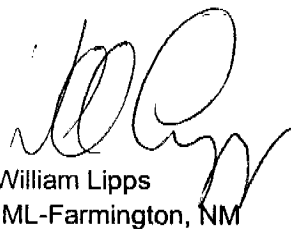
Dear Client:

The samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Sample analyses were obtained within the method specific holding times. Practical Quantitation Limits (PQL's) are based on method requirements, and any dilutions necessary to maintain proper method response without matrix interference.

If you have any questions, please call me at (505) 326-4737.



William Lipps
IML-Farmington, NM



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens
Project: Norton,VA
Sample ID: ABBOTT 1-2
Lab ID: 0301W00307
Matrix: Water
Condition: Cool/Intact

Date Received: 01/11/01
Date Reported: 01/25/01
Date Sampled: 12/07/00
Time Sampled: 1813

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	140	mg/L		10	EPA 160.1	01/15/01	1000	FP
Solids - Total Suspended	6	mg/L		2	EPA 160.2	01/12/01	0820	KA
Sulfate	<5	mg/L		5	EPA 300.0	01/11/01	0941	KA
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	01/25/01	1204	WL
Iron	0.34	mg/L		0.02	EPA 200.7	01/25/01	1204	WL
Manganese	0.03	mg/L		0.01	EPA 200.7	01/25/01	1204	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: _____



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Daniel B. Stephens

Project: Norton, VA

Sample ID: ABBOTT 2-2

Lab ID: 0301W00308

Matrix: Water

Condition: Cool/Intact

Date Received: 01/11/01

Date Reported: 01/25/01

Date Sampled: 12/07/00

Time Sampled: 1620

Parameter	Analytical		Units	PQL	Method	Analysis		
	Result	Units				Date	Time	Init.
General Parameters								
Solids - Total Dissolved	130	mg/L		10	EPA 160.1	01/15/01	1000	FP
Solids - Total Suspended	35	mg/L		2	EPA 160.2	01/12/01	0820	KA
Sulfate	12	mg/L		5	EPA 300.0	01/11/01	0941	KA
Total Metals								
Aluminum	<0.05	mg/L		0.05	EPA 200.7	01/25/01	1207	WL
Iron	5.16	mg/L		0.02	EPA 200.7	01/25/01	1207	WL
Manganese	0.07	mg/L		0.01	EPA 200.7	01/25/01	1207	WL

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.

EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: _____



Quality Control Report
Duplicate Analysis

Client: Daniel B. Stephens
Project: Norton,VA
Sample ID: ABBOTT 2-2
Lab ID: 0301W00308
Matrix: Water
Condition: Cool/Intact

Report Date: 02/05/01
Receipt Date: 01/11/01
Sample Date: 12/07/00
Time Sampled: 1620

Parameter	Original Conc.	Duplicate Conc.	Relative % Diff.	PQL	Units
Solids - Total Dissolved	130	150	14	10	mg/L
Solids - Total Suspended	35	46	27	2	mg/L
Sulfate	12	12	0**	5	mg/L
Aluminum	<0.05	<0.05	NC*	0.05	mg/L
Iron	5.16	5.57	8	0.02	mg/L
Manganese	0.07	0.07	0	0.01	mg/L

*NC - Non-Calculable RPD due to value(s) less than DL ** - Difference used for results < 5 X Detection Limit

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: 