3R - 3/9

REPORTS

DATE:



Environmental Services 187 County Road 4980 Bloomfield, New Mexico 87413 (505) 632-4409 (office) (505) 632-4405 (fax)

March 20, 2002

Mr. William Olson Hydrologist Oil Conservation Division 1220 S. St. Francis Dr. Santa Fe, NM 87505

RECEIVED

APR 0 4 2002

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

RE: 2001 GROUND WATER SUMMARY REPORT

Dear Mr. Olson:

Enclosed for your review is the 2001 Ground Water Summary Report. The report presents monitoring data for eighteen sites having petroleum hydrocarbon impacted ground water, which resulted from the past use of unlined surface impoundments. The sites included in the report are listed in Table 1.

In 2001, three sites met the required remediation standards and were closed with OCD approval. The sites, listed in Table 2, achieved clean closure through a combination of contaminant source removal actions and monitored natural attenuation. Ground water cleanup objectives at each site were met in roughly three years, or less.

Of the eighteen active sites, five have accumulations of LNAPL in one or more monitoring well. In December 2001, the LNAPL accumulations were removed from these wells to evaluate LNAPL recovery rates and to augment the natural attenuation process. In 2002, passive LNAPL collection devices will be deployed or manual LNAPL removal events will be scheduled at some of the sites.

The remaining thirteen active sites either contain concentrations of dissolved BTEX in excess of cleanup standards or have met cleanup standards but have not yet demonstrated four consecutive clean quarters. Pursuant to discussions on the subject with OCD, Williams intends to implement various methods to accelerate the attenuation at select sites. These augmentation methods will be incorporated into an addendum to the Ground Water Management plan.

Table 2. List of Sites Closed in 2001

Count	Site Name	Unit Letter	Section	Township	Range	Longitude	Latitude	OCD Initial Notification	Status
1	Albright #4 Drip	F	22	29N	10W	-107.868451	36.715299	9-Jul-99	Approved; Wells Abandoned
2	Miles Federal 1E Drip	N	5	26N	7W	-107.602489	36.510939	23-Jun-97	Approved; Wells Abandoned
3	Randleman 1	K	13	31N	11W	-107.945067	36.896329	9-May-97	Pending OCD Approval

Site Summary Report

Site Name: Grenier 4A Reporting Period: 2001

Location: Unit M, Sec 7, Twn 31N, Rng 11W

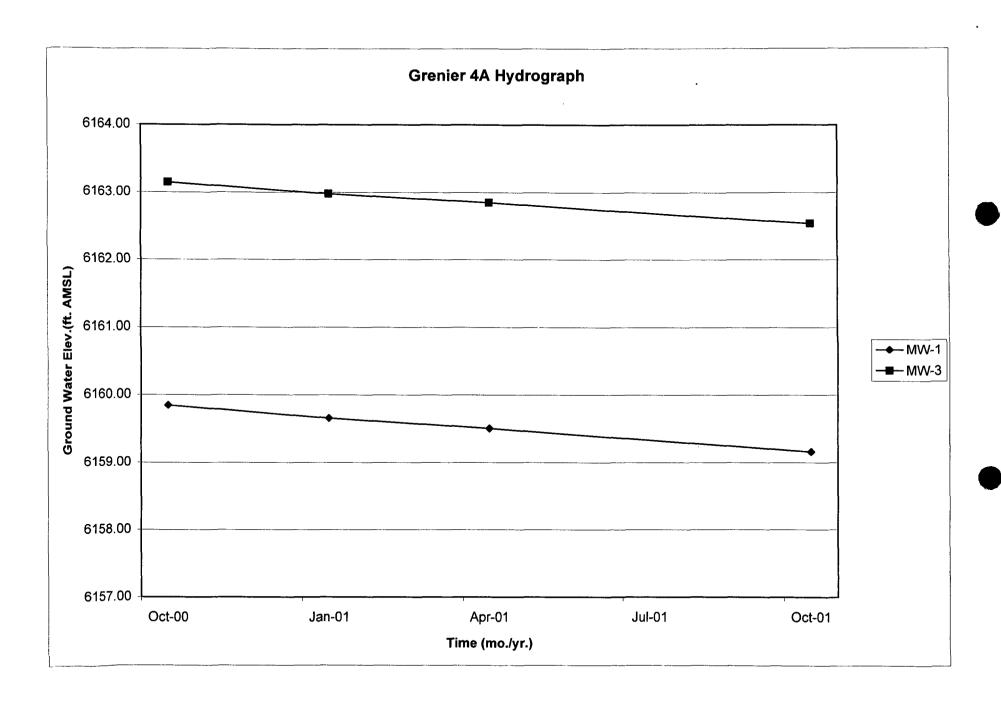
Vulnerable Class: OCD Ranking: 0

Canyon: Estes Arroyo Operator: Burlington

Lead Agency: NMOCD

Status Narrative

This site has five monitoring wells, with six quarters of ground water monitoring completed to date. In January 2000, extensive secondary soil remediation was conducted in the area of PNM's former dehydrator pit, which resulted in removal of monitoring wells MW-2 and MW-4. Three new wells (MW-5,-6,-7) were also installed at this time. MW-5 replaced the source area well MW-2, and MW-6 and MW-7 serve as downgradient sentinel wells.





Site Name: Grenier 4A Reporting Period: 7/1/00 To 12/31/01

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-1	3000					
	10/26/00	123726OCT00	<1	<1	<1	1.20
	4/26/01	114526APR01	<1	<1	<1	<1
	10/8/01	152308OCT01	<1.0	<2.0	<2.0	<2.0
MW-3						
	10/26/00	130626OCT00	<1	<1	<1	<1
	4/26/01	120326APR01	<1	<1	<1	<1
MW-5						
	10/26/00	125326OCT00	<1	<1	8.65	1.75
	1/5/01	123105JAN01	67.1	<1	3.96	<1
	4/26/01	115526APR01	147	1.46	3.25	1.46
	10/8/01	153808OCT01	18	<2.0	<2.0	<2.0
MW-6						
E	10/26/00	133126OCT00	<1	<1	<1	<1
	1/5/01	124405JAN01	<1	<1	<1	<1
	4/26/01	122026APR01	1.99	1.44	<1	2.59
	10/8/01	152808OCT01	<1.0	<2.0	<2.0	<2.0
MW-7						
Delivers of the contract of th	10/26/00	131826OCT00	<1	<1	<1	<1
	1/5/01	125505JAN01	<1	<1	<1	<1
	4/26/01	121326APR01	<1	<1	<1	<1
	10/8/01	153508OCT01	<1.0	<2.0	<2.0	<2.0

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0010872

WILLIAMS FIELD SERVICES SENT

TO: 187 CNTY RD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/GRENIER 4A

Reference Fraction:0010872-01A

Sample ID: GRNR4A-UG-MW-1

Sample Date Collected: 10/26/0012:37:00

11/06/00 DATE REPORTED:

DATE COLLECTED: 10/26/00 DATE RECEIVED: 10/31/00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	OA1/8021B	ND ND ND 1.20 121	UG/L UG/L UG/L UG/L 125	3.0 1.0 1.0 1.0 75	11/02/00 11/02/00 11/02/00 11/02/00	MB MB

=NONE DETECTED =PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: Teny Kaes

TERRY KOESTER

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0010872

SENT WILLIAMS FIELD SERVICES

TO: 187 CNTY RD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/GRENIER 4A

Reference Fraction:0010872-03A

Sample ID: GRNR4A-DG-MW-3

Sample Date Collected: 10/26/0013:06:00

DATE REPORTED: 11/06/00

DATE COLLECTED: 10/26/00 DATE RECEIVED: 10/31/00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE	·	ND	UG/L	1.0	11/02/00	MB
TOLUENE		ND	UG/L	1.0	11/02/00	MB
ETHYLBENZENE		ND	ŬĠ/L	1.0	*	
TOTAL XYLENES		ND	ŬĠ/L	1.0	11/02/00	
BFB (SURROGATE)		121	125	75	• •	

=NONE DETECTED

L=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B≈DETECTED IN METHOD BLANK

APPROVED BY: Temphoeste

TERRY KOESTER

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0010872

SENT WILLIAMS FIELD SERVICES

TO: 187 CNTY RD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/GRENIER 4A

Reference Fraction:0010872-02A

Sample ID: GRNR4A-SA-MW-5

Sample Date Collected: 10/26/0012:53:00

DATE REPORTED: 11/06/00

DATE COLLECTED: 10/26/00

DATE RECEIVED: 10/31/00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	вч
BTEX BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	OA1/8021B	ND ND 8.65 1.75 121	UG/L UG/L UG/L UG/L 125	3.0 1.0 1.0 1.0	11/02/00 11/02/00 11/02/00 11/02/00	MB MB

ND=NONE DETECTED
=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: Josephoest

TERRY KOESTER

LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

ABORATORY REPORT:

REFERENCE #: 0010872

WILLIAMS FIELD SERVICES SENT

TO: 187 CNTY RD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/GRENIER 4A

Reference Fraction: 0010872-05A

Sample ID: GRNR4A-CG-MW-6

Sample Date Collected: 10/26/0013:31:00

DATE REPORTED: 11/06/00 DATE COLLECTED: 10/26/00

DATE RECEIVED: 10/31/00

Sample Matrix:

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE	,	ND	UG/L	1.0	11/02/00	MB
TOLUENE		ND	UG/L	1.0	11/02/00	MB
ETHYLBENZENE		ND	UG/L	1.0	11/02/00	MB
TOTAL XYLENES		ND	UG/L	1.0	11/02/00	MB
BFB (SURROGATE)		117	125	75	, ,	

ND=NONE DETECTED

PRACTICAL QUANTITAION LIMIT

SG=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: John Kues

TERRY KOESTER

WATER

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0010872

Sample Matrix: WATER

SENT WILLIAMS FIELD SERVICES

TO: 187 CNTY RD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

BFB (SURROGATE)

PROJECT: WES/GRENIER 4A

Reference Fraction:0010872-04A

Sample ID: GRNR4A-DG-MW-7

Sample Date Collected: 10/26/0013:18:00

REPERENCE #. 0010072

DATE REPORTED: 11/06/00

DATE COLLECTED: 10/26/00

DATE RECEIVED: 10/31/00

	<u> </u>						
TEST	METHOD	RESULT	UNITS	PQL		ANALYZED	BY
BTEX	OA1/8021B				3.0		
BENZENE	,	ND	UG/L		1.0	11/02/00	MB
TOLUENE		ND	UG/L		1.0	11/02/00	MB
ETHYLBENZENE		ND	UG/L		1.0	11/02/00	MB
TOTAL XYLENES		ND	UG/L		1.0	11/02/00	MB

121

PRACTICAL QUANTITAION LIMIT SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY:

125

TERRY KOESTER

75

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0101172

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD # 4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/OSHEA IM-GRN4A-DVSI

Reference Fraction: 0101172-05A

Sample ID: GRNR4A-SA-MW5

Sample Date Collected: 01/05/0112:31:00

DATE REPORTED: 02/08/01 DATE COLLECTED: 01/05/01

DATE RECEIVED: 01/09/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	OA1/8021B	67.1 ND 3.96 ND 124	UG/L UG/L UG/L UG/L 125	3.0 1.0 1.0 1.0	01/10/01 01/10/01 01/10/01 01/10/01	MB MB

ND=NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

PERRY KOESTER

LABORATORY DIRECTOR

M

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0101172

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD # 4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/OSHEA IM-GRN4A-DVSI

Reference Fraction:0101172-04A

Sample ID: GRNR4A-CG-MW6

Sample Date Collected: 01/05/0112:44:00

Sample Matrix: WATER

DATE REPORTED: 02/08/01 DATE COLLECTED: 01/05/01

DATE RECEIVED: 01/09/01

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B		<u> </u>	3.0	·····	
BENZENE		ND	UG/L	1.0	01/10/01	MB
TOLUENE		ND	UG/L	1.0	01/10/01	MB
ETHYLBENZENE		ND	UG/L	1.0	01/10/01	MB
TOTAL XYLENES		ND	UG/L	1.0	01/10/01	MB
BFB (SURROGATE)		124	125	75		

NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B≈DETECTED IN METHOD BLANK

APPROVED BY:

ZERRY' KOESTER

LABORATORY DIRECTOR

(£1)I

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0101172

Sample Matrix:

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD # 4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/OSHEA IM-GRN4A-DVSI

Reference Fraction:0101172-03A

Sample ID: GRNR4A-DG-MW7

Sample Date Collected: 01/05/0112:55:00

DATE REPORTED: 02/08/01
DATE COLLECTED: 01/05/01

DATE RECEIVED: 01/09/01

TEST METHOD RESULT UNITS PQL ANALYZED BYOA1/8021B 3.0 BTEX 1.0 01/10/01 MB BENZENE ND UG/L TOLUENE ND UG/L 1.0 01/10/01 MB 1.0 ETHYLBENZENE ND UG/L 01/10/01 MB 01/10/01 MB UG/L TOTAL XYLENES ND1.0 120 75 BFB (SURROGATE) 125

ND=NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

PERRY KOESTER

WATER

LABORATORY DIRECTOR

(M)

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0105037

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/GRANIER 4A

Reference Fraction: 0105037-03A

Sample ID: GRNR4A-UG-MW1

Sample Date Collected: 04/26/0111:45:00

DATE REPORTED: 05/11/01 DATE COLLECTED: 04/26/01

DATE RECEIVED: 05/01/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.	 D	
BENZENE		ND	UG/L	1.	05/04/01	KKI
TOLUENE		ND	UG/L	1.	05/04/01	KKL
ETHYLBENZENE		ND	UG/L	1.	05/04/01	KKL
TOTAL XYLENES		ND	UG/L	1.	05/04/01	KKL
BFB (SURROGATE)		122	125	7	5	

NP-NONE DETECTED
-PRACTICAL QUANTITAION LIMIT
SU-STANDARD UNITS
B-DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTERLE

TERRY KOESTER

LABORATORY DIRECTOR

Q,

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0105037

Sample Matrix: WATER

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/GRANIER 4A

Reference Fraction:0105037-05A

Sample ID: GRNR4A-DG-MW3

Sample Date Collected: 04/26/0112:03:00

DATE REPORTED: 05/11/01 DATE COLLECTED: 04/26/01

DATE RECEIVED: 05/01/01

 METHOD
 RESULT
 UNITS
 PQL
 ANALYZED
 BY

 OA1/8021B
 3.0

 ND
 UG/L
 1.0
 05/04/01
 KKL

 ND
 UG/L
 1.0
 05/04/01
 KKL

ND UG/L 1.0 05/04/01 KKL ND UG/L 1.0 05/04/01 KKL

TOTAL XYLENES ND UG/L 1.0 0 BFB (SURROGATE) 122 125 75

ND=NONE DETECTED

ETHYLBENZENE

TEST

BTEX

BENZENE

TOLUENE

PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KESTERINE

TERRY KOESTER
LABORATORY DIRECTOR

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0105037

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/GRANIER 4A

Reference Fraction:0105037-02A

Sample ID: GRNR4A-SA-MW5

Sample Date Collected: 04/26/0111:55:00

DATE REPORTED: 05/11/01 DATE COLLECTED: 04/26/01

DATE RECEIVED: 05/01/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	OA1/8021B	147 1.46 3.25 1.46 122	UG/L UG/L UG/L UG/L 125	3. 1. 1. 1.	0 05/04/01 0 05/04/01 0 05/04/01 0 05/04/01	KKL

ND-NONE DETECTED

PRACTICAL QUANTITAION LIMIT

S-STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER iN

TERRY KOESTER
LABORATORY DIRECTOR

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0105037

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/GRANIER 4A

Reference Fraction: 0105037-01A

Sample ID: GRNR4A-DG-MW6

Sample Date Collected: 04/26/0112:20:00

DATE REPORTED: 05/11/01 DATE COLLECTED: 04/26/01

DATE RECEIVED: 05/01/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE	·	1.99	UG/L	1.0	05/04/01	KKL
TOLUENE		1.44	UG/L	1.0	05/04/01	KKL
ETHYLBENZENE		ND	UG/L	1.0	05/04/01	KKL
TOTAL XYLENES		2.59	UG/L	1.0	05/04/01	KKL
BFB (SURROGATE)		90	125	75	•	

NONE DETECTED

=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTERGE

TERRY KOESTER
LABORATORY DIRECTOR

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0105037

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/GRANIER 4A

Reference Fraction:0105037-04A

Sample ID: GRNR4A-DG-MW7

Sample Date Collected: 04/26/0112:13:00

. . .

DATE REPORTED: 05/11/01 DATE COLLECTED: 04/26/01

DATE RECEIVED: 05/01/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3	.0	
BENZENE	·	ND	UG/L	1	.0 05/04/01	KKL
TOLUENE		ND	UG/L	1	.0 05/04/01	KKL
ETHYLBENZENE		ND	UG/L	1	.0 05/04/01	KKL
TOTAL XYLENES		ND	UG/L	1	.0 05/04/01	KKL
BFB (SURROGATE)		114	125		75	

PRONE DETECTED

=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER LABORATORY DIRECTOR

M





Collected: October 8, 2001

Received: October 12, 2001

Contact: Jim Struhs

Analyzed: October 19, 2001

AMERICAN WEST **ANALYTICAL LABORATORIES**

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47930-01A

Field Sample ID: GRNR-UG-MW1 Site ID: Grenier 4A / JPS-101101-02

Analytical Results

MBTEXN/TPH-P

463 West 3600 South Salt Lake City, Utah

Units = mg/L84:15

Final Dilution Factor: Compound

Reporting Limit

Amount Detected

< 0.0010

Toluene

Benzene

0.0020

0.0010

< 0.0020

Toll Free (888) 263-8686 Fax (801) 263-8687 -mail: awal@xmission.com

Ethylbenzene

0.0020

< 0.0020

Kyle F. Gross

(801) 263-8686

Total Xylene

0.0020

< 0.0020

Peggy McNicol

QA Officer

Laboratory Director

Released by:

Report Date:

October 26, 2001





Collected: October 8, 2001

Received: October 12, 2001

Contact: Jim Struhs

Analyzed: October 19, 2001

AMERICAN WEST ANALYTICAL LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47930-04A

Field Sample ID: GRNR-SA-MW5 Site ID: Grenier 4A / JPS-101101-02

Analytical Results

MBTEXN/TPH-P

463 West 3600 South Salt Lake City, Utah

V, Utah Units = mg/L 84:15 Final Dilution Factor:

Compound	Reporting Limit	Amount Detected
Benzene	0.0010	0.018
Toluene	0.0020	< 0.0020
Ethylbenzene	0.0020	< 0.0020
Total Xylene	0.0020	< 0.0020

Kyle F. Gross Laboratory Director

Fax (801) 263-8687 :-mail: awal@xmission.com

> Peggy McNicol QA Officer

(801) 263-8686

Released by

Laboratory Supervisor

Report Date:

October 26, 2001





Collected: October 8, 2001

Received: October 12, 2001

Contact: Jim Struhs

Analyzed: October 19, 2001

AMERICAN WEST ANALYTICAL LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47930-02A

Field Sample ID: GRNR-DG-MW6 Site ID: Grenier 4A / JPS-101101-02

Analytical Results

MBTEXN/TPH-P

463 West 3600 South Salt Lake City, Utah

/, Utah Units = mg/L 84:15 Final Dilution Factor: 1

Compound	Reporting Limit	Amount Detected
Benzene	0.0010	< 0.0010
Toluene	0.0020	< 0.0020
Ethylbenzene	0.0020	< 0.0020
Total Xylene	0.0020	< 0.0020

Kyle F. Gross Laboratory Director

Toll Free (888) 263-8686 Fax (801) 263-8687 s-mail: awal@xmission.com

(801) 263-8686

Peggy McNicol QA Officer

Released by:

Laboratory Supervisor

Report Date:

October 26, 2001





Collected: October 8, 2001

Received: October 12, 2001

Contact: Jim Struhs

0.0020

Analyzed: October 19, 2001

AMERICAN WEST **ANALYTICAL LABORATORIES**

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47930-03A

Field Sample ID: GRNR-DG-MW7 Site ID: Grenier 4A / JPS-101101-02

Analytical Results

Total Xylene

MBTEXN/TPH-P

< 0.0020

463 West 3600 South Salt Lake City, Utah 84115

Units = mg/LFinal Dilution Factor: 1 Reporting Amount Limit Detected Compound 0.0010 < 0.0010 Benzene 0.0020 < 0.0020 Toluene 0.0020 < 0.0020 Ethylbenzene

Kyle F. Gross

Toll Free (888) 263-8686

Peggy McNicol **QA** Officer

(801) 263-8686

Fax (801) 263-8687 e-mail: awal@xmission.com

Laboratory Director

Released by:

Report Date:

October 26, 2001