

3R - 317

REPORTS

DATE:

2001

12317



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 04 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.

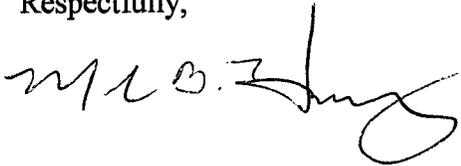
In 2001, three sites met the required remediation standards and were closed with OCD approval. The sites, listed in Table 2, achieved clean closure through a combination of contaminant source removal actions and monitored natural attenuation. Ground water cleanup objectives at each site were met in roughly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

Thank you for your time to review this submittal. If you have any questions regarding the report, you may call me at (505) 632-4409 or Jim Struhs at (505) 632-4457.

Respectfully,



Mark B. Harvey
Project Coordinator
Mark.Harvey@Williams.com



James P. Struhs
Project Hydrogeologist
Jim.Struhs@Williams.com

Attachment
Enclosure

c: Denny Foust, OCD Aztec District Office
Bill Liess, BLM Farmington District Office

Table 1. List of Active Sites for 2001 Report

Count	Site Name	Unit Letter	Section	Township	Range	Longitude	Latitude	OCD Initial Notification
1	Blanco Wash Drip	J	31	27N	8W	-107.721574	36.530995	19-Feb-99
2	Chamberlain 1	F	14	32N	12W	-108.068853	36.990549	30-Sep-99
3	Davis 1	E	11	31N	12W	-108.068919	36.916257	2-Mar-99
4	Dogie East Pit	D	4	25N	6W	-107.478874	36.434196	7-Jul-97
5	Dogie North Pit	D	4	25N	6W	-107.479158	36.435784	7-Jul-97
6	Florance 124	C	27	29N	9W	-107.76698	36.70209	12-Aug-96
7	Florance 40	G	21	30N	8W	-107.67775	36.800088	27-Jan-97
8	Florance M 47X	G	5	30N	9W	-107.799823	36.843166	27-Jan-97
9	Grenier 4A	M	7	31N	11W	-108.036001	36.910167	18-Oct-99
10	Honolulu Drip	B	15	26N	4W	-107.238469	36.492341	18-Jun-96
11	Ice Canyon Drip	J	13	26N	7W	-107.52226	36.484972	1-Dec-97
12	Jicarilla Contract 147-6	C	6	25N	5W	-107.402363	36.433963	13-Aug-98
13	Kaufman 1	H	33	31N	13W	-108.202128	36.860121	9-Mar-00
14	O' Shea 1M	F	3	31N	13W	-108.193596	36.932228	6-Jun-98
15	Patterson A Com A1	G	2	31N	12W	-108.061165	36.930755	2-Mar-99
16	Pritchard 2	J	6	30N	8W	-107.712068	36.837817	22-Feb-99
17	Wilmerding 1M	C	10	31N	13W	-108.193158	36.91846	5-Jun-98
18	Zachry 18E	O	11	28N	10W	-107.860007	36.670885	6-Sep-96

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: Florance 47X

Reporting Period: 2001

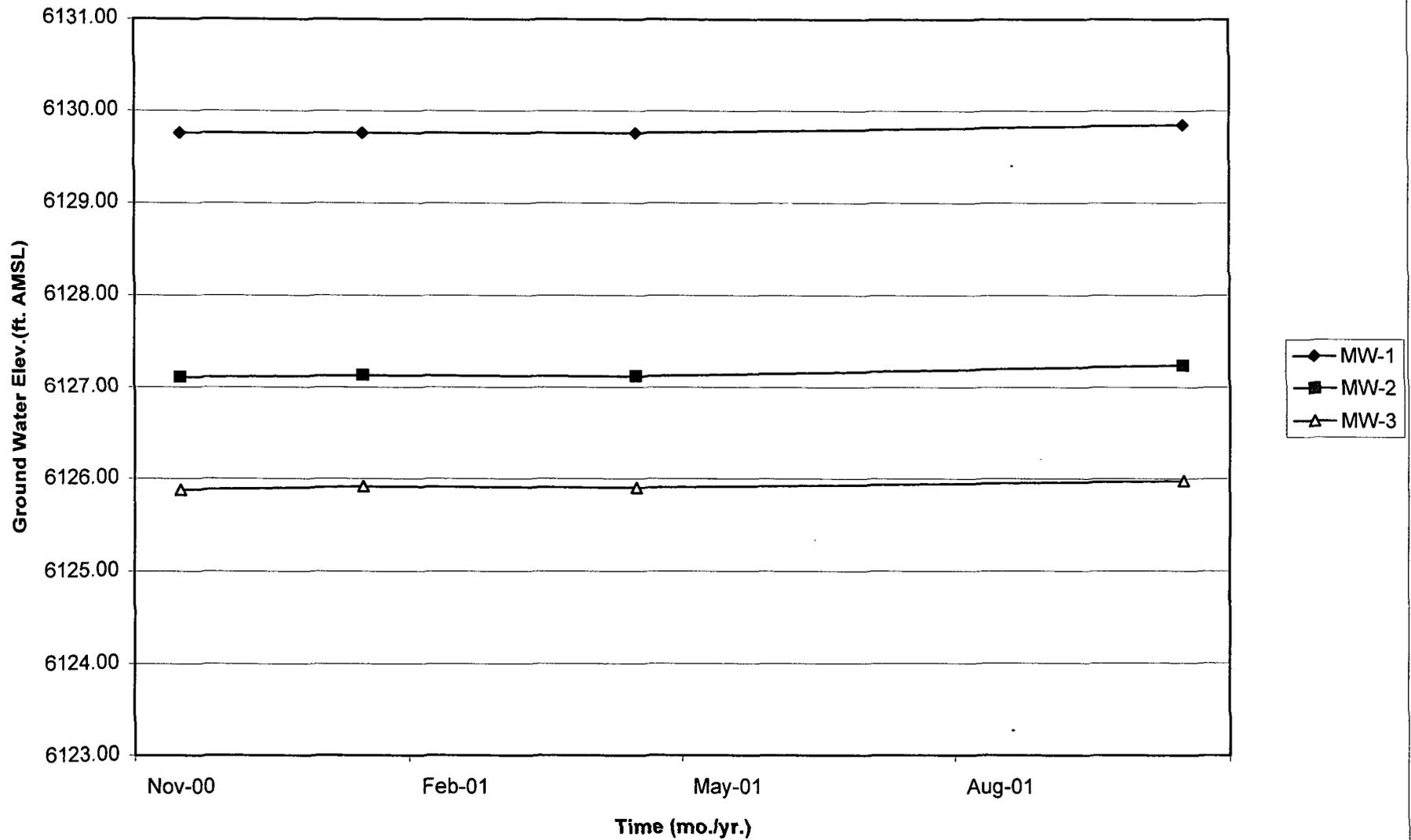
Location: Unit G, Sec 5, Twn 30N, Rng 8W
Canyon: Crow
Operator: Amoco

Vulnerable Class: original
OCD Ranking: 10
Lead Agency: NMOCD

Status Narrative

This site has five monitoring wells, with seventeen quarters of ground water monitoring completed to date. Accumulations of LNAPL in well MW-3 have decreased during the period from 1.11 feet to 1.07 feet. Monitoring well MW-1, upgradient of PNM's former dehydrator pit and downgradient of Amoco's equipment, had exceeded WQCC standards in the past, but has been below the standards during this period.

Florance M 47X Hydrograph



Analytical Data Summary

Site Name:
Florance M 47X

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						
	11/17/00	120417NOV00	4.64	<1	<1	<1
	1/31/01	140431JAN01	3.67	1.44	<1	<1
	4/30/01	111730APR01	5.44	1.90	<1	1.78
	10/10/01	130510OCT01	1.1	<2.0	<2.0	<2.0
MW-2						
	11/17/00	132617NOV00	5980	3240	600	4780
	1/31/01	141731JAN01	6300	2790	458	5490
	4/30/01	110030APR01	7160	2200	404	7060
	10/10/01	131310OCT01	4500	1000	390	3800
MW-4						
	11/17/00	133617NOV00	59.9	104	2.94	98.3
	1/31/01	142831JAN01	30.3	81.0	5.20	156
	4/30/01	113030APR01	36.1	56.1	1.32	73
	10/10/01	131910OCT01	24	28	<2	47
MW-5						
	11/17/00	130717NOV00	161	110	8.09	60.8
	4/30/01	114330APR01	15.7	21.6	2.01	17.9
	10/10/01	132510OCT01	380	120	19	220

Q W A L L A B O R A T O R I E S, I N C.

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

LABORATORY REPORT:

REFERENCE #: 0011509

SENT WILLIAMS GAS PIPELINE
 TO: 187 COUNTY ROAD #4980
 BLOOMFIELD, NM 87413
 JIM STRUHS
 PROJECT: WES/FLORANCE 47X

DATE REPORTED: 11/27/00
 DATE COLLECTED: 11/17/00
 DATE RECEIVED: 11/18/00

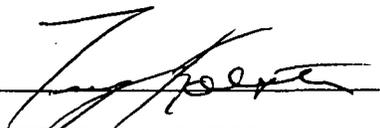
Reference Fraction:0011509-01A
 Sample ID: FLO47X-UG-MW1
 Sample Date Collected: 11/17/0012:04:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		4.64	UG/L	1.0	11/20/00	KKL
TOLUENE		ND	UG/L	1.0	11/20/00	KKL
ETHYLBENZENE		ND	UG/L	1.0	11/20/00	KKL
TOTAL XYLENES		ND	UG/L	1.0	11/20/00	KKL
BFB (SURROGATE)		111	125	75		

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

APPROVED BY:


 TERRY KOESTER
 LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

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 TO: 187 COUNTY ROAD #4980
 BLOOMFIELD, NM 87413
 JIM STRUHS

DATE REPORTED: 11/27/00
 DATE COLLECTED: 11/17/00
 DATE RECEIVED: 11/18/00

PROJECT: WES/FLORANCE 47X

Reference Fraction:0011509-02A

Sample ID: FLO47X-SA-MW2

Sample Matrix: WATER

Sample Date Collected: 11/17/0013:26:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		5980	UG/L	100	11/21/00	MB
TOLUENE		3240	UG/L	100	11/21/00	MB
ETHYLBENZENE		600	UG/L	100	11/21/00	MB
TOTAL XYLENES		4780	UG/L	100	11/21/00	MB
BFB (SURROGATE)		108	125	75		

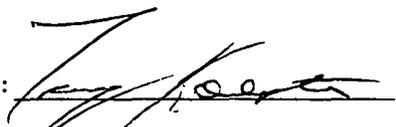
ND=NONE DETECTED

PL=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:


 TERRY KOESTER
 LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

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

LABORATORY REPORT:

REFERENCE #: 0011509

SENT WILLIAMS GAS PIPELINE
 TO: 187 COUNTY ROAD #4980
 BLOOMFIELD, NM 87413
 JIM STRUHS
 PROJECT: WES/FLORANCE 47X

DATE REPORTED: 11/27/00
 DATE COLLECTED: 11/17/00
 DATE RECEIVED: 11/18/00

Reference Fraction:0011509-03A
 Sample ID: FLO47X-DG-MW4
 Sample Date Collected: 11/17/0013:36:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		59.9	UG/L	1.0	11/20/00	KKL
TOLUENE		104	UG/L	1.0	11/20/00	KKL
ETHYLBENZENE		2.94	UG/L	1.0	11/20/00	KKL
TOTAL XYLENES		98.3	UG/L	1.0	11/20/00	KKL
BFB (SURROGATE)		107	125	75		

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

APPROVED BY:


 TERRY KOESTER
 LABORATORY DIRECTOR

000018

Q W A L L A B O R A T O R I E S, I N C.

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

LABORATORY REPORT:

REFERENCE #: 0011509

SENT WILLIAMS GAS PIPELINE
 TO: 187 COUNTY ROAD #4980
 BLOOMFIELD, NM 87413
 JIM STRUHS
 PROJECT: WES/FLORANCE 47X

DATE REPORTED: 11/27/00
 DATE COLLECTED: 11/17/00
 DATE RECEIVED: 11/18/00

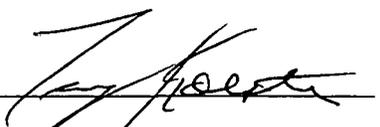
Reference Fraction: 0011509-04A
 Sample ID: FLO47X-DG-MW5
 Sample Date Collected: 11/17/0013:07:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		161	UG/L	1.0	11/20/00	KKL
TOLUENE		110	UG/L	1.0	11/20/00	KKL
ETHYLBENZENE		8.09	UG/L	1.0	11/20/00	KKL
TOTAL XYLENES		60.8	UG/L	1.0	11/20/00	KKL
BFB (SURROGATE)		115	125	75		

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

APPROVED BY:


 TERRY KOESTER
 LABORATORY DIRECTOR

000019

Q W A L L A B O R A T O R I E S, I N C.

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

LABORATORY REPORT:

REFERENCE #: 0102064

SENT WILLIAMS GAS PIPELINE
 TO: 187 COUNTY ROAD # 4980
 BLOOMFIELD, NM 87413
 JIM STRUHS
 PROJECT: WES/FLORANCE 47X

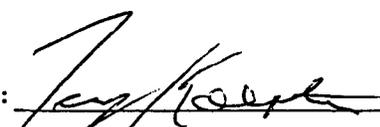
DATE REPORTED: 02/08/01
 DATE COLLECTED: 01/31/01
 DATE RECEIVED: 02/03/01

Reference Fraction: 0102064-03A
 Sample ID: FLRN47X-UG-MW1
 Sample Date Collected: 01/31/01 14:04:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		3.67	UG/L	1.0	02/05/01	MB
TOLUENE		1.44	UG/L	1.0	02/05/01	MB
ETHYLBENZENE		ND	UG/L	1.0	02/05/01	MB
TOTAL XYLENES		ND	UG/L	1.0	02/05/01	MB
BFB (SURROGATE)		86	125	75		

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

APPROVED BY: 
 TERRY KOESTER
 LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

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

LABORATORY REPORT:

REFERENCE #: 0102064

SENT WILLIAMS GAS PIPELINE
 TO: 187 COUNTY ROAD # 4980
 BLOOMFIELD, NM 87413
 JIM STRUHS
 PROJECT: WES/FLORANCE 47X

DATE REPORTED: 02/08/01
 DATE COLLECTED: 01/31/01
 DATE RECEIVED: 02/03/01

Reference Fraction: 0102064-04A
 Sample ID: FLRN47X-SA-MW2
 Sample Date Collected: 01/31/01 14:17:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		6300	UG/L	100	02/06/01	MB
TOLUENE		2790	UG/L	100	02/06/01	MB
ETHYLBENZENE		458	UG/L	100	02/06/01	MB
TOTAL XYLENES		5490	UG/L	100	02/06/01	MB
BFB (SURROGATE)		98	125	75		

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

APPROVED BY:


 TERRY KOESTER
 LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

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

LABORATORY REPORT:

REFERENCE #: 0102064

SENT WILLIAMS GAS PIPELINE
 TO: 187 COUNTY ROAD # 4980
 BLOOMFIELD, NM 87413
 JIM STRUHS

DATE REPORTED: 02/08/01
 DATE COLLECTED: 01/31/01
 DATE RECEIVED: 02/03/01

PROJECT: WES/FLORANCE 47X

Reference Fraction: 0102064-01A
 Sample ID: FLRN47X-DG-MW4
 Sample Date Collected: 01/31/01 14:28:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		30.3	UG/L	1.0	02/06/01	MB
TOLUENE		81.0	UG/L	1.0	02/06/01	MB
ETHYLBENZENE		5.20	UG/L	1.0	02/06/01	MB
TOTAL XYLENES		156	UG/L	1.0	02/06/01	MB
BFB (SURROGATE)		97	125	75		

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

APPROVED BY:

Terry Koester
 TERRY KOESTER
 LABORATORY DIRECTOR

TK

Q W A L L A B O R A T O R I E S, I N C.

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

LABORATORY REPORT:

REFERENCE #: 0102064

SENT WILLIAMS GAS PIPELINE
TO: 187 COUNTY ROAD # 4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/FLORANCE 47X

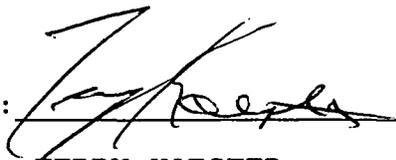
DATE REPORTED: 02/08/01
DATE COLLECTED: 01/31/01
DATE RECEIVED: 02/03/01

Reference Fraction:0102064-02A
Sample ID: FLRN47X-DG-MW5
Sample Date Collected: 01/31/0114:40:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED BY
BROKEN SAMPLE				N/A	

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

APPROVED BY: 
TERRY KOESTER
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S , I N C .

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

LABORATORY REPORT:

REFERENCE #: 0105062

SENT **WILLIAMS GAS PIPELINE**
 TO: **187 COUNTY ROAD #4980**
BLOOMFIELD, NM 87413
JIM STRUHS
 PROJECT: WES/FLORANCE M47X

DATE REPORTED: 05/09/01
 DATE COLLECTED: 04/30/01
 DATE RECEIVED: 05/02/01

Reference Fraction: 0105062-03A
 Sample ID: FLRN47X-UG-MW1
 Sample Date Collected: 04/30/01 11:17:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		5.44	UG/L	1.0	05/07/01	MB
TOLUENE		1.90	UG/L	1.0	05/07/01	MB
ETHYLBENZENE		ND	UG/L	1.0	05/07/01	MB
TOTAL XYLENES		1.78	UG/L	1.0	05/07/01	MB
BFB (SURROGATE)		113	125	75		

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

APPROVED BY: 
 TERRY KOESTER
 LABORATORY DIRECTOR


Q W A L L A B O R A T O R I E S, I N C.

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

LABORATORY REPORT:

REFERENCE #: 0105062

SENT WILLIAMS GAS PIPELINE
TO: 187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/FLORANCE M47X

DATE REPORTED: 05/09/01
DATE COLLECTED: 04/30/01
DATE RECEIVED: 05/02/01

Reference Fraction: 0105062-04A
Sample ID: FLRN47X-SA-MW2
Sample Date Collected: 04/30/0111:00:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		7160	UG/L	100	05/08/01	MB
TOLUENE		2200	UG/L	100	05/08/01	MB
ETHYLBENZENE		404	UG/L	100	05/08/01	MB
TOTAL XYLENES		7060	UG/L	100	05/08/01	MB
BFB (SURROGATE)		102	125	75		

ND=NONE DETECTED
P=PRACTICAL QUANTITATION LIMIT
SU=STANDARD UNITS
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APPROVED BY:



TERRY KOESTER
LABORATORY DIRECTOR



Q W A L L A B O R A T O R I E S , I N C .

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

LABORATORY REPORT:

REFERENCE #: 0105062

SENT WILLIAMS GAS PIPELINE
TO: 187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS

DATE REPORTED: 05/09/01
DATE COLLECTED: 04/30/01
DATE RECEIVED: 05/02/01

PROJECT: WES/FLORANCE M47X

Reference Fraction: 0105062-02A

Sample ID: FLRN47X-DG-MW4

Sample Matrix: WATER

Sample Date Collected: 04/30/01 11:30:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		36.1	UG/L	1.0	05/07/01	MB
TOLUENE		56.1	UG/L	1.0	05/07/01	MB
ETHYLBENZENE		1.32	UG/L	1.0	05/07/01	MB
TOTAL XYLENES		73.0	UG/L	1.0	05/07/01	MB
BFB (SURROGATE)		114	125	75		

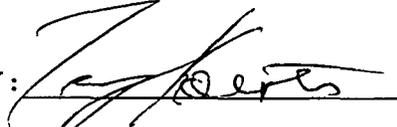
ND=NONE DETECTED

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SU=STANDARD UNITS

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APPROVED BY:


TERRY KOESTER
LABORATORY DIRECTOR

TK

Q W A L L A B O R A T O R I E S, I N C.

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

LABORATORY REPORT:

REFERENCE #: 0105062

SENT WILLIAMS GAS PIPELINE
 TO: 187 COUNTY ROAD #4980
 BLOOMFIELD, NM 87413
 JIM STRUHS
 PROJECT: WES/FLORANCE M47X

DATE REPORTED: 05/09/01
 DATE COLLECTED: 04/30/01
 DATE RECEIVED: 05/02/01

Reference Fraction:0105062-01A

Sample ID: FLRN47X-DG-MW5

Sample Matrix: WATER

Sample Date Collected: 04/30/0111:43:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		15.7	UG/L	1.0	05/07/01	MB
TOLUENE		21.6	UG/L	1.0	05/07/01	MB
ETHYLBENZENE		2.01	UG/L	1.0	05/07/01	MB
TOTAL XYLENES		17.9	UG/L	1.0	05/07/01	MB
BFB (SURROGATE)		118	125	75		

ND=NONE DETECTED
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 SU=STANDARD UNITS
 B=DETECTED IN METHOD BLANK

APPROVED BY:



TERRY KOESTER
 LABORATORY DIRECTOR





ORGANIC ANALYSIS REPORT

Client: Mile High Environmental
Collected: October 10, 2001
Received: October 12, 2001

Contact: Jim Struhs
Analyzed: October 24, 2001

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47931-01A
Field Sample ID: FLR 47X - UG-MW1
Site ID: Florance 47X / JPS-101101-01

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results

MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

Compound

Reporting
Limit

Amount
Detected

Benzene

0.0010

0.0011

Toluene

0.0020

< 0.0020

Ethylbenzene

0.0020

< 0.0020

Total Xylene

0.0020

< 0.0020

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

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Released by:

Laboratory Supervisor

Report Date:

October 26, 2001

Page 1 of 1



ORGANIC ANALYSIS REPORT

Client: Mile High Environmental
Collected: October 10, 2001
Received: October 12, 2001

Contact: Jim Struhs
Analyzed: October 21, 2001

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47931-02A
Field Sample ID: FLR 47X - SA-MW2
Site ID: Florance 47X / JPS-101101-01

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results

MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>	
Benzene	0.050	4.5	*
Toluene	0.10	1.0	*
Ethylbenzene	0.10	0.39	*
Total Xylene	0.10	3.8	*

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Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

* These analytes were obtained from a 1:50 dilution.

Released by:

Laboratory Supervisor

Report Date:

October 26, 2001

Page 1 of 1



ORGANIC ANALYSIS REPORT

Client: Mile High Environmental
Collected: October 10, 2001
Received: October 12, 2001

Contact: Jim Struhs
Analyzed: October 21, 2001

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47931-04A
Field Sample ID: FLR 47X - DG-MW4
Site ID: Florance 47X / JPS-101101-01

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results

MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

Compound

Reporting
Limit

Amount
Detected

Benzene

0.0010

0.024

Toluene

0.0020

0.028

Ethylbenzene

0.0020

< 0.0020

Total Xylene

0.0020

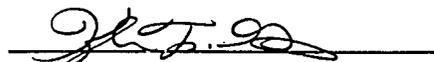
0.047

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Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Released by:


Laboratory Supervisor

Report Date:

October 26, 2001

Page 1 of 1



ORGANIC ANALYSIS REPORT

Client: Mile High Environmental
Collected: October 10, 2001
Received: October 12, 2001

Contact: Jim Struhs
Analyzed: October 24, 2001

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47931-03A
Field Sample ID: FLR 47X - DG-MW5
Site ID: Florance 47X / JPS-101101-01

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results

MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

Compound

Reporting
Limit

Amount
Detected

Benzene

0.020

0.38

*

Toluene

0.0020

0.12

Ethylbenzene

0.0020

0.019

Total Xylene

0.0020

0.22

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Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

* This analyte was obtained from a 1:20 dilution.

Released by:


Laboratory Supervisor

Report Date:

October 26, 2001

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