

3R - 305

REPORTS

DATE:

2001

3R305



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.

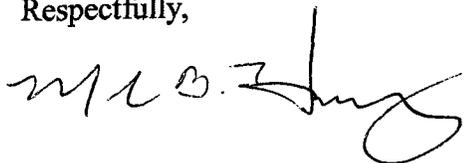
In 2001, three sites met the required remediation standards and were closed with OCD approval. The sites, listed in Table 2, achieved clean closure through a combination of contaminant source removal actions and monitored natural attenuation. Ground water cleanup objectives at each site were met in roughly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

Reporting Period: 2001

Location: Unit J, Sec 31, Twn 27N, Rng 8W

Canyon: Blanco

Operator: Williams

Vulnerable Class: expanded

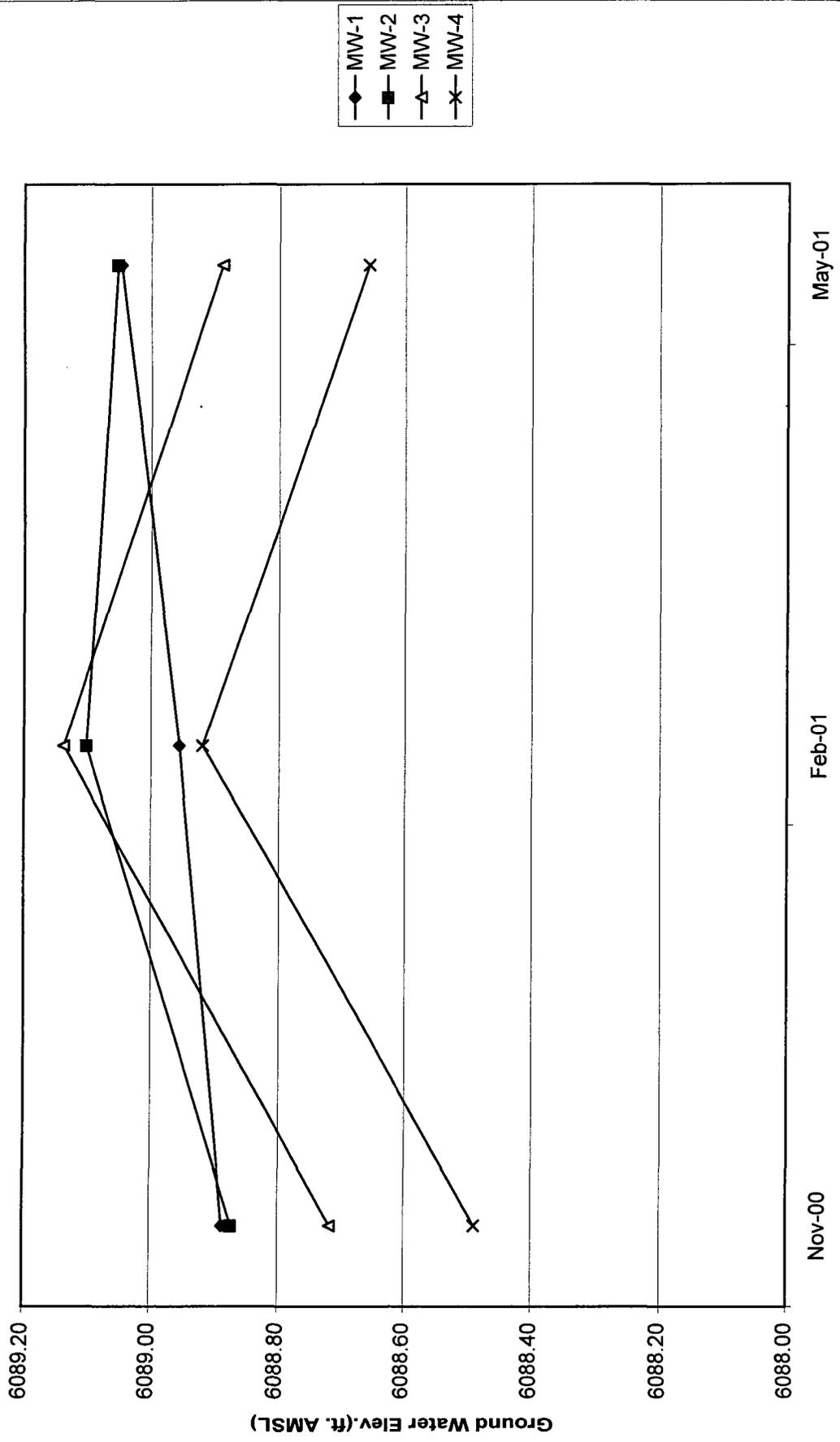
OCD Ranking: 40

Lead Agency: NMOCD, NNEPA, EPA

Status Narrative

This site has met NMOCD and USEPA ground water cleanup standards for three consecutive quarters. A final round of sampling has been scheduled with NNEPA for March 25, 2002. Assuming results from this sampling event remain consistent with previous results, this site will be closed in early 2002.

Blanco Wash Drip Hydrograph



Analytical Data Summary

Site Name:
Blanco Wash Drip

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	5/1/01	103201MAY01	<1	<1	<1	<1
MW-2	11/22/00	095222NOV00	<1	<1	<1	<1
	2/22/01	165022FEB01	<1	<1	<1	<1
	5/1/01	104001MAY01	<1	<1	<1	<1
MW-3	5/1/01	105101MAY01	<1	<1	<1	<1
MW-4	5/1/01	110401MAY01	<1	<1	<1	2.42

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 #: 0011656

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

DATE REPORTED: 12/01/00
 DATE COLLECTED: 11/22/00
 DATE RECEIVED: 11/28/00
 P.O. #: JPS-112700-01

Sample ID: BLNC-SAMW2
 Collection Date: 11/22/00 09:52:00

Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
BTEX	OA1/8021B			3.0		
BENZENE	71-43-2	ND	UG/L	1.0	11/30/00MB	
TOLUENE	108-88-3	ND	UG/L	1.0	11/30/00MB	
ETHYLBENZENE	100-41-4	ND	UG/L	1.0	11/30/00MB	
TOTAL XYLENES	1330-20-7	ND	UG/L	1.0	11/30/00MB	
BFB (SURROGATE)	-	92	125	75		

ND-NONE DETECTED
 PRACTICAL QUANTITATION LIMIT
 SU=STANDARD UNITS
 *BACKGROUND CONTAMINATION
 SUR=SURROGATE
 Q=OUTSIDE LIMITS
 B=DETECTED IN METHOD BLANK

APPROVED BY: _____

Terry Koester
 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 #: 0102613

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

DATE REPORTED: 02/27/01
 DATE COLLECTED: 02/22/01
 DATE RECEIVED: 02/24/01
 P.O. #: SWA-022301-02

Sample ID: BLNC-SA-MW2
 Collection Date: 02/22/01 16:50:00

Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
BTEX	0A1/8021B			3.0		
BENZENE	71-43-2	ND	UG/L	1.0	02/26/01KKL	
TOLUENE	108-88-3	ND	UG/L	1.0	02/26/01KKL	
ETHYLBENZENE	100-41-4	ND	UG/L	1.0	02/26/01KKL	
TOTAL XYLENES	1330-20-7	ND	UG/L	1.0	02/26/01KKL	
BFB (SURROGATE)	-	101	125	75		

ND=NONE DETECTED
 PRACTICAL QUANTITATION LIMIT
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APPROVED BY: TERRY KOESTER
 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 #: 0105064

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

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

PROJECT: WES/BLANCO WASH DRIP

Reference Fraction: 0105064-04A

Sample ID: BLNC-UG-MW1

Sample Matrix: WATER

Sample Date Collected: 05/01/01 10:32:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/07/01	MB
TOLUENE		ND	UG/L	1.0	05/07/01	MB
ETHYLBENZENE		ND	UG/L	1.0	05/07/01	MB
TOTAL XYLENES		ND	UG/L	1.0	05/07/01	MB
BFB (SURROGATE)		117	125	75		

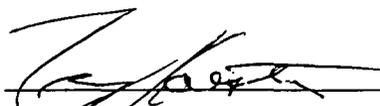
ND=NONE DETECTED

P= PRACTICAL QUANTIFICATION 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 #: 0105064

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

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

Reference Fraction: 0105064-03A
 Sample ID: BLNC-SA-MW2
 Sample Date Collected: 05/01/01 10:40:00

Sample Matrix: WATER

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

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

APPROVED BY:


 TERRY KOESTER
 LABORATORY DIRECTOR
 RK

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 #: 0105064

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

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

PROJECT: WES/BLANCO WASH DRIP

Reference Fraction:0105064-02A

Sample ID: BLNC-DG-MW3

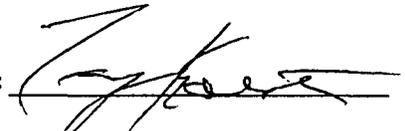
Sample Matrix: WATER

Sample Date Collected: 05/01/0110:51:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/07/01	MB
TOLUENE		ND	UG/L	1.0	05/07/01	MB
ETHYLBENZENE		ND	UG/L	1.0	05/07/01	MB
TOTAL XYLENES		ND	UG/L	1.0	05/07/01	MB
BFB (SURROGATE)		120	125	75		

ND=NONE DETECTED
 P= 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 #: 0105064

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

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

PROJECT: WES/BLANCO WASH DRIP

Reference Fraction:0105064-01A

Sample ID: BLNC-CG-MW4

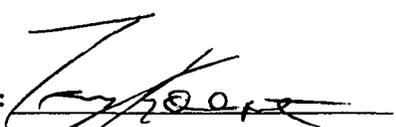
Sample Matrix: WATER

Sample Date Collected: 05/01/0111:04:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/08/01	MB
TOLUENE		ND	UG/L	1.0	05/08/01	MB
ETHYLBENZENE		ND	UG/L	1.0	05/08/01	MB
TOTAL XYLENES		2.42	UG/L	1.0	05/08/01	MB
BFB (SURROGATE)		102	125	75		

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

APPROVED BY:


 TERRY KOESTER
 LABORATORY DIRECTOR
 Dr