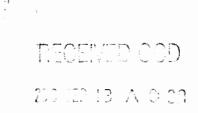
3R - 339

2009 AGWMR

09/03/2010





September 3, 2010

Mr. Glen Von Gonten Hydrologist Oil Conservation Division 1220 S. St. Francis Dr. Santa Fe, NM 87505

RE: 2009 GROUND WATER SUMMARY REPORT

Dear Mr. Von Gonten:

Enclosed for your review is the Williams 2009 Ground Water Summary Report. The report presents monitoring data for eight sites having petroleum hydrocarbon impacted ground water resulting from past use of unlined surface impoundments. The sites included in the report are identified in separate sections.

Four of the eight sites have known or suspected up-gradient contaminant sources which continue to influence conditions affecting the rate of natural attenuation. These conditions have been previously mentioned in project correspondence and suggest producer or third party responsibility. Until such time as the other responsible parties address these sources, efforts by Williams are invariably extended.

Two sites (Florence 47X and Davis #1) have regular accumulations of LNAPL in one monitoring well at each location. Since 2002, passive collection devices have been deployed in all wells containing measurable accumulations of LNAPL. Periodic emptying of the collection devices along with active bailing of LNAPL during the quarterly sampling events continues at the aforementioned sites and at times if observed at any other site.

One site previously monitored (Patterson A COM #1A) met closure criteria in 2008 and a closure request was submitted in 2009. Williams plans to close the Patterson A COM #1A and abandon the monitoring wells there unless the NMOCD objects to that action in the next 60 days. Williams will also abandon monitoring wells at five other sites where closure requests were made based on meeting closure criteria. The closure notices for these sites were submitted on two occasions with no response from the NMOCD. Again, closure is assumed to be approved unless there is documented objection.

September 3, 2010 Mr. Glen Von Gonten Page 2

As noted in the site summaries, laboratory reports have not been included in the annual report. Lab results reports are retained in project files until such time as a site closure report is developed, but are available anytime upon request.

Thank you for your time to review this submittal. If you have any questions regarding the content of the report, or about specific conditions at any site, you may call me at (801) 232-8985 or Aaron Dailey at (505) 634-4708.

Respectfully,

Mark B. Harvey Project Manager

Enclosure

Note: Report previously submitted electronically April 4, 2010

3R-339

PRITCHARD 2A

Site Summary Report

Site Name: Pritchard 2A Reporting Period: 2009

Location: Unit J, Sec 6, Twn 30N, Rng 8W

Canyon: Pump Operator: Williams

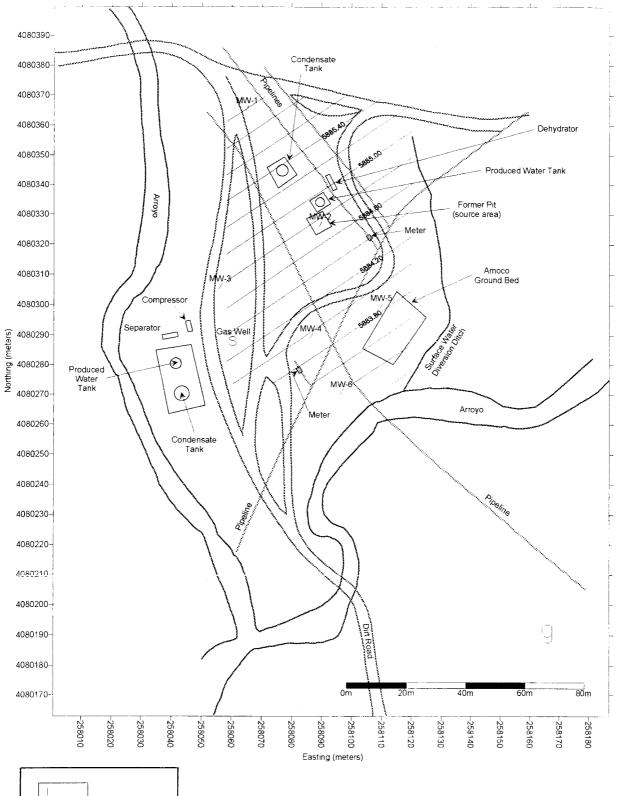
Status Narrative

The six monitoring wells at this site have been sampled for forty-one quarters. Monitoring wells MW-2 and MW-4 no longer have observable LNAPL accumulations, but are not monitored routinely. In the fourth quarter, benzene in up-gradient well MW-1 declined significantly compared to measured values in the previous five quarters. Concentrations of BTEX in cross-gradient wells MW-3 and MW-5 remain relatively stable but in excess of NMWQCC standards. Total BTEX concentrations in down gradient well MW-6 are also relatively stable.

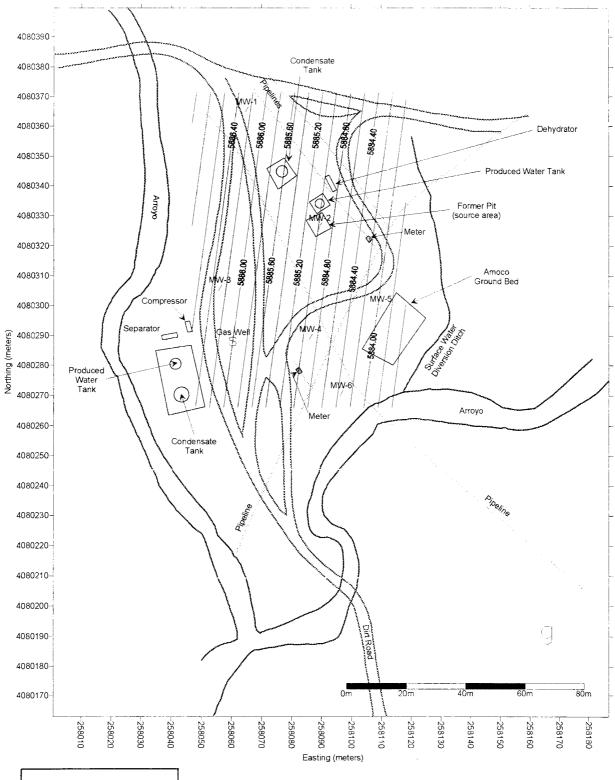
Potentiometric surface maps (Figure 2) depict a southeast by south ground water flow direction at an average hydraulic gradient of 0.01. No significant seasonal variations in ground water flow direction or gradient are evident. The enclosed hydrograph shows an overall decrease in the water-table elevation over the past few years.

Up-gradient contaminant remains troubling and is unlikely related to the former dehydrator pit. The presence of numerous pipelines in the area around MW-1 may warrant investigation by the pipeline operators. While conditions seem favorable for monitored natural attenuation, clean closure will not likely be achievable until after up-gradient sources are identified and addressed.

—<u>4</u>— MW-5 **→** MW-1 9-WW-*-PRTCHD 2009 Hydrograph Date Gauged 5878 5880 5888 5886 5882 5890 5884 Elevation (ft AMSL)









Analytical Data Summary

Site Name:

Pritchard 2

Reporting Period:

1/1/2008 To 12/31/2009

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-1						
***************************************	3/26/2008	185026MAR08	37.7	7.9	1.3	105
	6/4/2008	161004JUN08	22.3	15.1	<1.0	70.4
	9/18/2008	125919SEP08	28.4	8.7	<1.0	81.8
	12/6/2008	091006DEC08	18.1	2.0	<1.0	46.0
	3/28/2009	130728MAR09	45.9	1.4	<1.0	159
	7/8/2009	154708JUL09	23.6	4.2	<1.0	40.1
	9/11/2009	174311SEP09	33.8	1.9	<1.0	47.4
	12/20/2009	115220 DE C09	6.3	6.1	1.1	54.4
E-WM						
	3/26/2008	190326MAR08	26.0	14.3	1.2	11.5
	6/4/2008	162204JUN08	82.1	3.4	7.1	49.9
	9/18/2008	131319SEP08	28.9	1.3	3.1	10.7
	12/6/2008	092606DEC08	25.3	1.7	3.0	12.2
	3/28/2009	132228MAR09	94.4	9.2	11.8	54.9
	7/8/2009	172108JUL09	64.6	6.6	7.3	46.4
	9/11/2009	175811SEP09	39.2	5.5	3.8	29.7
	12/20/2009	120620DEC09	11.3	1.6	1.7	16.1
MW-5						
	3/26/2008	191426MAR08	24.1	2.3	1.7	41.6
	6/4/2008	163504JUN08	102	5.7	9.4	168
	9/18/2008	132719SEP08	285	18.1	12.0	344
	7/8/2009	173208JUL09	163	4.7	1.5	84.6
	9/11/2009	181211SEP09	192	2.3	2.5	55.6
	12/20/2009	122120DEC09	203	3.4	3.8	108
MW-6						
	3/26/2008	192826MAR08	2100	2500	454	4350
	6/4/2008	164904JUN08	1460	1120	370	3350
	9/18/2008	134319SEP08	2800	801	494	4580
	12/6/2008	101706DEC08	759	280	247	2130
	3/28/2009	140328MAR09	2060	659	569	4540
	7/8/2009	174408JUL09	2010	333	492	3760
	9/11/2009	182711SEP09	2810	274	579	3310