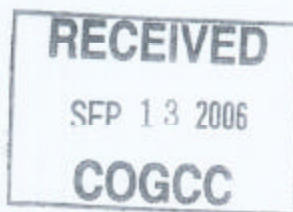




August 13, 2006

Bob Chesson  
Colorado Oil and Gas Conservation Commission  
1120 Lincoln St  
Suite 801  
Denver, CO 80203



5550 Marshall Street  
Arvada, CO 80002  
P: 303.237.2072  
F: 303.237.2659



REMEDIATION # 244

Re: Goad Well Remediation

Dear Bob,

This letter includes a summary of the results of the remediation efforts for the Goad well for the period of May 2005 to July 2006, a plan for testing the OW8A well for water quality and expediting remediation of the OW8A well over the next year and a modified groundwater monitoring program for the area to be implemented this year.

For the remediation efforts, two sparging wells have been in use in the area of the Goad wells, OW8A and OGW since May 2004. In May 2005, aeration of the OW8A well was added to the two sparging wells. The sparging wells have operated continuously except during the months of January 2006 and February 2006 when freezing conditions froze the condensation in the air lines. The aeration of the OW8A well has run continuously throughout the year.

Figure 1 shows the locations of the wells. Table 1 presents the data that has been collected for the groundwater in the area of the Goad property. Figures 2 and 3 show the methane and benzene concentration trends with time for the OW8A well and the sparging wells, D1 and D2.

Generally the following observations can be made for the remediation efforts in 2005 and 2006.

For the OW8A well:

- The dissolved oxygen (DO) in this well is continuing to rise and has been greater than 1.0 mg/L indicating that the aeration of the well and the air from the sparging wells is entering this well.
- Methane concentration is less since startup of the systems. However, methane did increase following the winter down period (Figure 2).
- Benzene continues to decrease overall (since May 2004) from 0.016 mg/L to the present concentration of less than 0.0004 mg/L. The benzene concentration did decrease to below the MCL of 0.005 mg/L prior to the winter months, but rebounded to slightly above the MCL when the system was down during the winter months (Figure 3).

---

*Cordilleran Compliance Services, Inc.  
Environmental Consulting Engineers and Scientist  
Grand Junction Denver Laramie Casper*



For the air sparge wells, D1 and D2:

- The DO was high (greater than 5.0 mg/L) in both of these wells indicating that the sparging is increasing DO in the groundwater.
- Methane continued to decrease in these wells indicating that the sparging has been efficient in the stripping of methane (Figure 2). Methane was 6.6 mg/L and 10 mg/L in May 2004 prior to sparging and presently the methane is <0.0012 mg/L.
- Benzene continues to decrease in these wells indicating that the sparging in the wells is operating efficiently. In the D1 sparge well, the benzene concentration has decreased from 0.005 mg/L (May 2004), to the present concentration of <0.0004 mg/L. In the D2 sparge well, the benzene concentration has decreased from 0.0054 mg/L (May 2004) to the present concentration of <0.0004 mg/L.

At this point, the system has been effective as long as freezing conditions can be avoided. During the period of non-consistent operation, concentrations rebounded slightly above the benzene MCL of 0.005 mg/L, which suggests the system, needs to continue to be operated. The OGW, DW01, OW8A, D1 and D2 wells are completed in a gravel layer that is under about 40 feet of pressure and in confined conditions that does not allow for abundant groundwater movement through the area. The wells in the area need to have more groundwater pulled through the area, which would cause less rebound effects when the system is turned off. Since the OW8A well has consistently showed benzene concentrations below or slightly above the MCL when the system is running constantly, I would recommend using the water from this well for irrigation purposes only to allow for more volume of groundwater to be moved into the area of treatment and to allow Mr. Goad to irrigate his unused back pasture.

At present the OW8A well has not shown benzene concentrations above the MCL since April 2006. Prior to using the well for long term irrigation of the Goad's back pasture, the OW8A well and sprinkler system used for irrigation will be tested for water quality over a period of 8 hours. To test for water quality with time, the following sampling program will be performed:

- Sample well OW8A prior to start-up of the test;
- Sample the well and aerated water from the sprinkler at one hour after start-up;
- Sample the well and aerated water from the sprinkler at four hours after start-up;
- Sample the well and aerated water from the sprinkler at eight hours after start-up;
- Sample the well 4 days after the pump test is completed; and
- Analyze all samples for BTEX and dissolved methane.

In addition, OW8A well pumping rates, well water levels of the OW8A well and other nearby wells, and air quality measurements (using a PID) will be acquired throughout the test.

If the results of the proposed pilot test indicate that the benzene concentrations at the irrigation application point are below the MCL, then a long term plan will be submitted to the COGCC with the results of the proposed pilot test for approval.

The conditions of the well permit allow for 1 acre-foot/year or about 325,000 gallons of water to be used from this well for beneficial use. I anticipate that a maximum of 225,000 gallons will be used on the pasture for the remainder of the year. The current remediation system will continue to be used throughout the irrigation and when the irrigation is not being used.

To clarify the groundwater monitoring in the area, the following is proposed for the next year:

- Sample wells OW01, OW07, WW02 on an annual basis every July;
- Sample wells D1, D2, OW8A, DW01 and OW04 on a quarterly basis beginning July 2006; and
- Analyze all samples for BTEX and dissolved methane.

Please call me at (303) 237-2072, if you have any questions or wish to discuss. We will be starting the pump test immediately.

Sincerely,



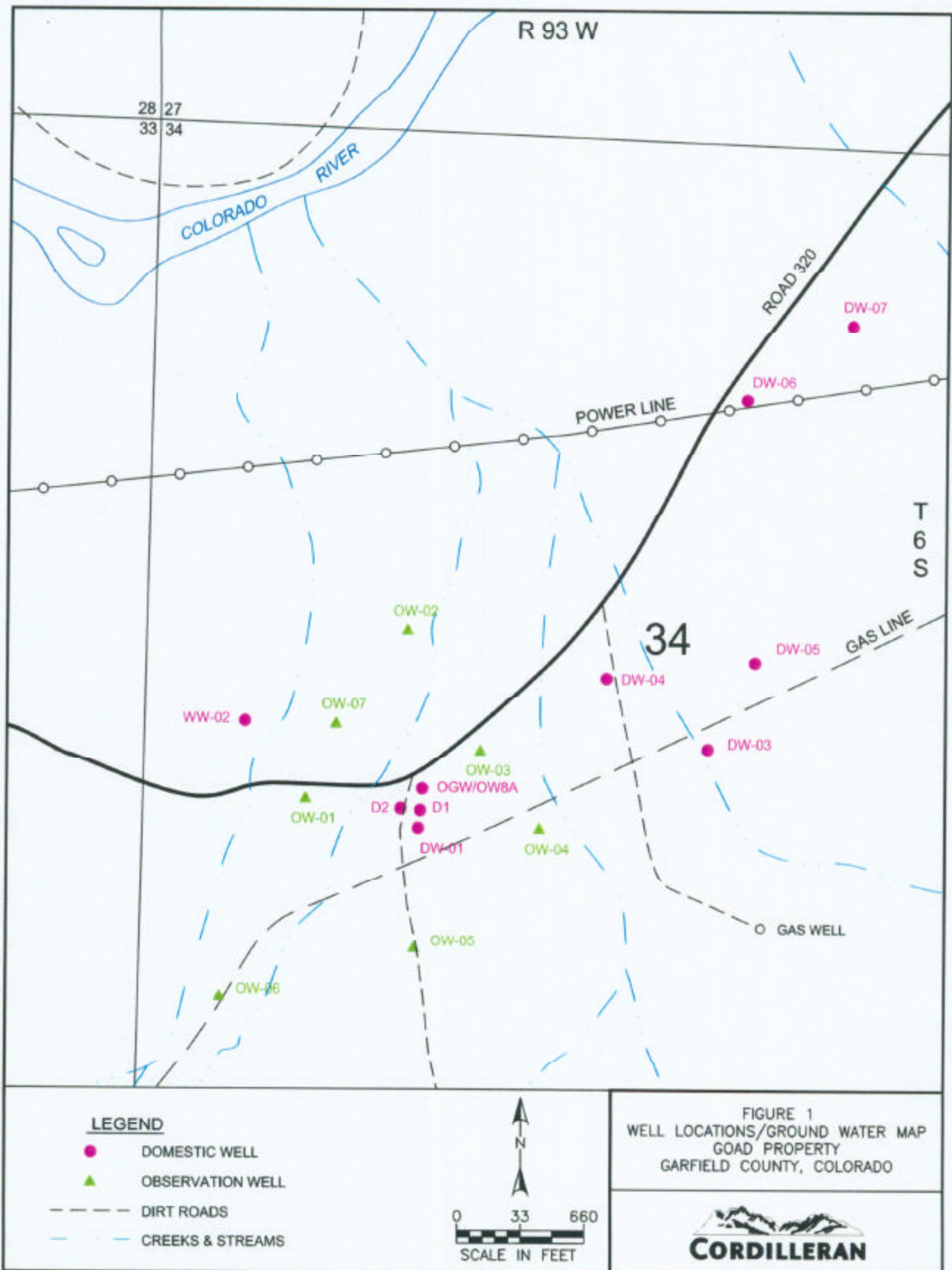
Brad Stephenson  
Senior Hydrogeologist  
***Cordilleran Compliance Services, Inc.***

Attachments

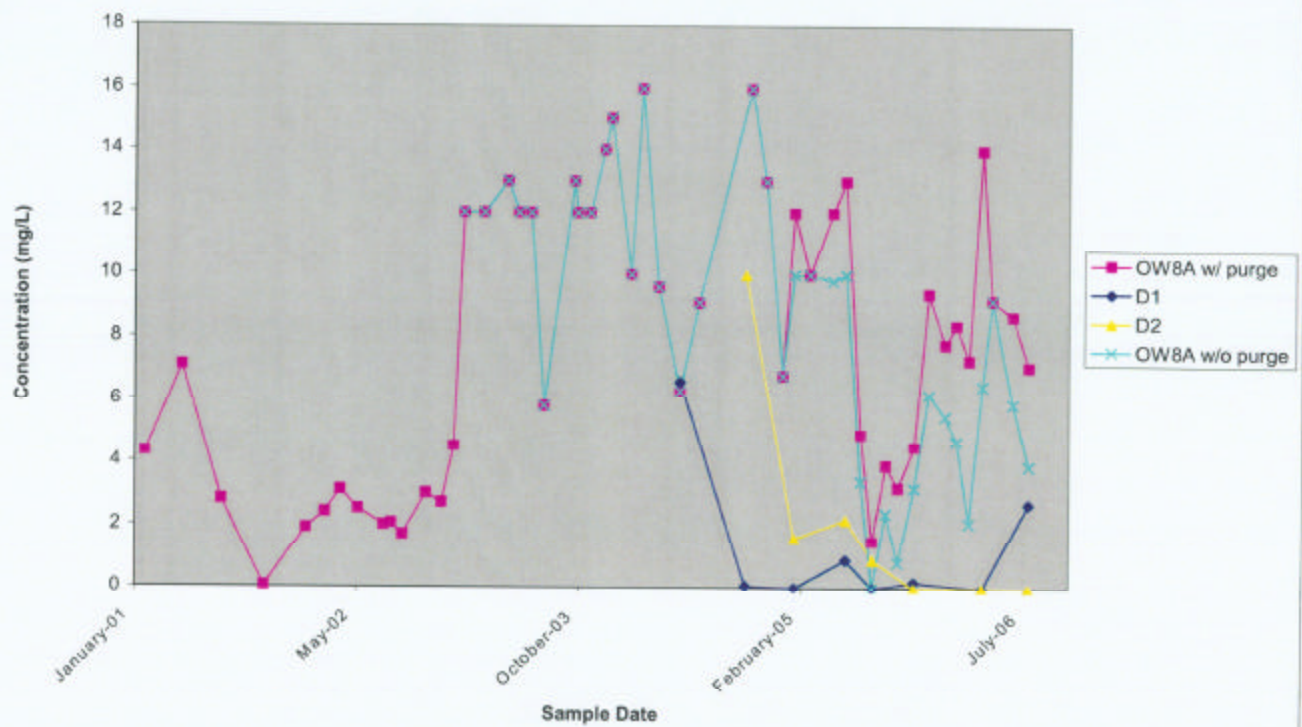
Cc: Dave Cesark  
Ken Kreie  
Project File



M:\clients\CORDILLERAN\Good\GOAD-SITE.dwg plotted: 03/10/2005



Goad Well Remediation  
Historical Methane Concentrations  
Figure 2



Goad Well Remediation  
Historical Benzene Concentrations  
Figure 3

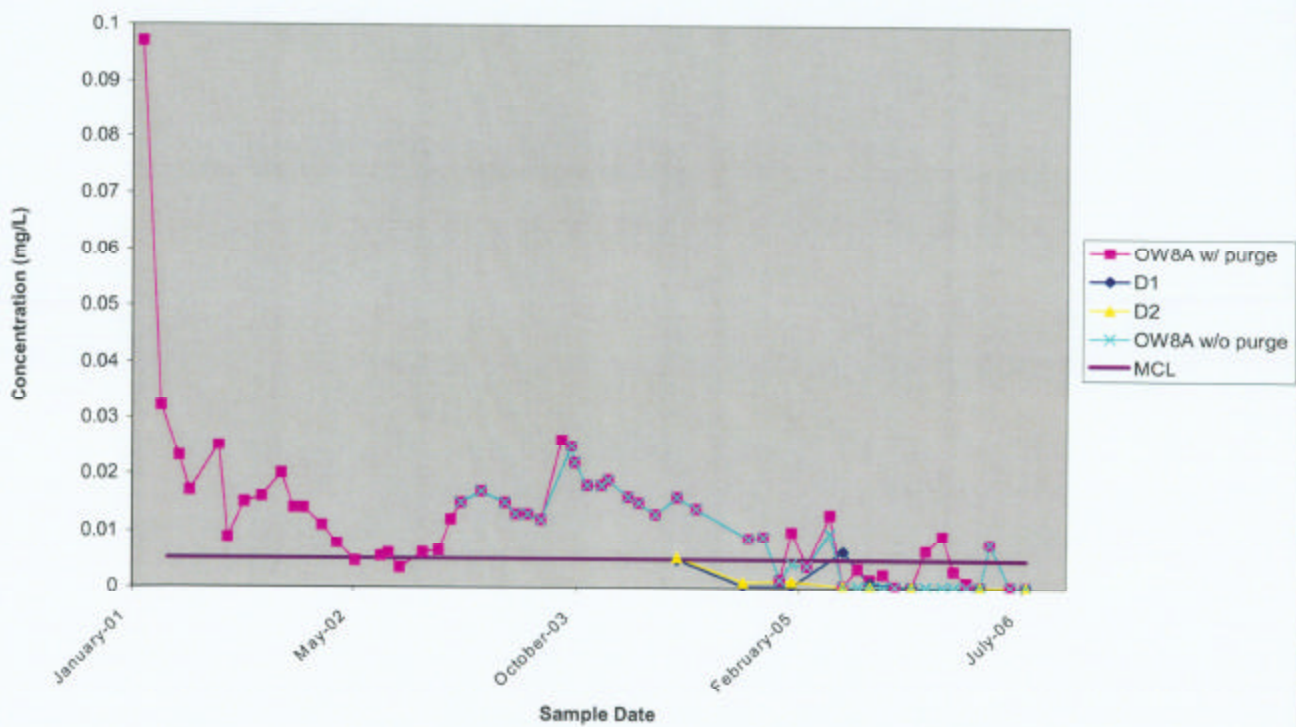




TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	METHANE IN WATER	BENZENE IN WATER	TOLUENE IN WATER	E.BENZENE IN WATER	XYLENE IN WATER	TVPH IN WATER	Comments
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
LABORATORY DETECTION LIMITS		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS		NA	0.005	1	0.68	10	NA	
OW-01	12/17/1997	3.6	0.033	0.00062	ND	0.00157	0.11	
	1/6/1998	3.1	0.019	0.00089	ND	0.01265	0.18	
	2/13/1998	2.7	0.013	0.0011	ND	0.00947	ND	
	3/17/1998	2.2	0.011	ND	ND	0.0049	ND	
	4/14/1998	3.6	0.011	ND	ND	0.0049	ND	
	5/12/1998	3.5	0.0094	ND	ND	0.0041	0.12	
	7/21/1998	2	0.0081	ND	ND	ND	ND	
	10/13/1998	0.35	0.0045	ND	ND	ND	ND	
	1/18/1999	0.39	0.0023	ND	ND	ND	ND	
	4/15/1999	0.0034	0.0021	ND	ND	ND	ND	
	7/14/1999	ND	0.0011	ND	ND	ND	ND	
	10/14/99	0.11	0.0022	ND	ND	ND	ND	
	2/3/2000	0.7434	0.0013	ND	ND	ND	ND	
	4/20/2000	0.2631	ND	ND	ND	ND	ND	
	7/17/2000	0.5533	0.0024	ND	ND	ND	ND	
	10/19/2000	0.0969	ND	ND	ND	ND	ND	
	2/1/2001	0.042	ND	ND	ND	ND	ND	
	4/27/2001	0.91	ND	ND	ND	ND	ND	
	7/25/2001	0.62	0.0018	ND	ND	ND	ND	
	10/30/2001	0.23	0.0018	ND	ND	ND	ND	
	2/1/2002	0.062	ND	ND	ND	ND	ND	
	4/18/2002	0.031	ND	ND	ND	ND	NT	
	7/25/2002	0.16	ND	ND	ND	ND	ND	
	10/28/2002	0.15	ND	ND	ND	ND	ND	
	1/20/2003	0.014	ND	ND	ND	ND	ND	
	4/29/2003	0.0096	ND	ND	ND	ND	ND	
	7/18/2003	0.001	ND	ND	ND	ND	ND	
	10/30/2003	0.0014	ND	ND	ND	ND	ND	
	1/30/2004	0.1	ND	ND	ND	ND	ND	
	5/19/2004	ND	ND	ND	ND	ND	ND	
	7/30/2004	ND	ND	ND	ND	ND	ND	
	10/26/2004	ND	ND	ND	ND	ND	ND	
	1/31/2005	0.0009	ND	ND	ND	ND	ND	
	4/27/2005	ND	ND	ND	ND	ND	ND	
	7/26/2005	ND	ND	ND	ND	ND	ND	
	10/28/2005	ND	ND	ND	ND	ND	ND	
	1/30/2006	0.0016	ND	ND	ND	ND	ND	
	7/13/2006	ND	ND	ND	ND	ND	ND	
OW-02	12/17/1997	NT	NT	NT	NT	NT	NT	
	1/6/1998	NT	NT	NT	NT	NT	NT	
OW-03	12/12/1997	NT	NT	NT	NT	NT	NT	
	1/7/1998	0.55	0.021	0.013	0.00065	0.00518	0.18	
	2/13/1998	2.8	0.0096	0.0038	ND	0.0021	0.19	
	3/17/1998	0.6	ND	ND	ND	ND	ND	
	4/13/1998	0.73	ND	ND	ND	ND	ND	
	5/12/1998	4.4	0.011	ND	ND	ND	ND	
	7/21/1998	4.5	0.016	ND	ND	ND	ND	
	10/13/1998	0.0061	0.003	ND	ND	ND	ND	
	1/18/1999	2.3	ND	ND	ND	ND	ND	
	4/15/1999	0.17	ND	ND	ND	ND	ND	
	7/14/1999	ND	ND	ND	ND	ND	ND	
	10/14/1999	ND	ND	ND	ND	ND	ND	
	2/3/2000	1.0989	ND	ND	ND	ND	ND	
	4/20/2000	1.4807	ND	ND	ND	ND	ND	
	7/17/2000	0.7519	0.0012	ND	ND	ND	ND	
	10/19/2000	1.1424	0.0018	ND	ND	ND	ND	
	2/2/2001	0.76	ND	ND	ND	ND	ND	
	4/27/2001	1.76	ND	ND	ND	ND	ND	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE IN WATER	BENZENE IN WATER	TOLUENE IN WATER	E.BENZENE IN WATER	XYLENE IN WATER	TVPH IN WATER	Comments
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
LABORATORY DETECTION LIMITS		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS		NA	0.005	1	0.68	10	NA	
OW-04	12/17/1997	0.22	ND	ND	ND	ND	ND	
	1/7/1998	0.0017	ND	ND	ND	ND	ND	
	2/13/1998	ND	ND	ND	ND	ND	ND	
	3/17/1998	ND	ND	ND	ND	ND	ND	
	4/30/1998	ND	ND	ND	ND	ND	NT	
	5/12/1998	NT	NT	NT	NT	NT	NT	
	7/21/1998	0.002	ND	ND	ND	ND	NT	
	10/13/1998	ND	ND	ND	ND	ND	NT	
	1/18/1999	0.0018	ND	ND	ND	ND	NT	
	4/15/1999	0.0052	0.00069	ND	ND	ND	NT	
	4/25/1999	NT	ND	ND	ND	0.00048	NT	
	7/14/1999	ND	ND	ND	ND	ND	NT	
	10/14/1999	ND	ND	ND	ND	ND	NT	
	2/3/2000	ND	ND	ND	ND	ND	NT	
	2/16/2000	NT	ND	ND	ND	ND	NT	
	4/21/2000	ND	ND	ND	ND	ND	NT	
	7/17/2000	0.1426	ND	ND	ND	ND	NT	
	10/19/2000	0.0477	ND	ND	ND	ND	NT	
	2/1/2001	0.008	ND	ND	ND	ND	NT	
	4/27/2001	0.011	ND	ND	ND	ND	ND	
	7/25/2001	0.44	ND	ND	ND	ND	ND	
	10/30/2001	0.61	ND	ND	ND	ND	ND	
	2/1/2002	0.28	ND	ND	ND	ND	ND	
	4/18/2002	0.064	ND	ND	ND	ND	NT	
	7/25/2002	0.34	ND	ND	ND	ND	ND	
	10/28/2002	0.62	ND	ND	ND	ND	ND	
	1/20/2003	4.9	ND	ND	ND	ND	ND	
	3/19/2003	NT	NT	NT	NT	NT	NT	
	4/29/2003	0.97	ND	ND	ND	ND	ND	
	7/18/2003	1.4	ND	ND	ND	ND	ND	
	10/30/2003	1.3	ND	ND	ND	ND	ND	
	1/30/2004	1.3	ND	ND	ND	ND	ND	
	5/19/2004	0.22	ND	ND	ND	ND	ND	
	7/30/2004	1.6	0.0016	ND	ND	ND	ND	
	10/26/2004	0.92	ND	ND	ND	ND	ND	
	1/31/2005	0.88	ND	ND	ND	ND	ND	
	4/27/2005	0.51	ND	ND	ND	ND	ND	
	7/26/2005	0.74	ND	ND	ND	ND	ND	
	10/28/2005	0.66	ND	ND	ND	ND	ND	
	1/30/2006	ND	0.0027	ND	ND	ND	ND	
	2/15/2006	ND	ND	ND	ND	ND	ND	Resample for 1/30/06 sample
	4/21/2006	0.074	ND	ND	ND	ND	ND	
	7/12/2006	0.74	0.0025	ND	ND	ND	ND	
	7/26/2006	NT	ND	ND	ND	ND	ND	Resample for 7/12/06 sample
OW-05	12/17/1997	0.21	ND	ND	ND	ND	ND	
	1/7/1998	0.02	ND	0.0017	ND	ND	ND	
	2/13/1998	NT	NT	NT	NT	NT	NT	
	4/30/1998	ND	ND	ND	ND	ND	NT	
	7/21/1998	0.023	ND	ND	ND	ND	NT	
	10/13/1998	ND	ND	ND	ND	ND	NT	
	1/18/1999	0.015	ND	ND	ND	ND	NT	
OW-06	12/18/1997	ND	ND	0.00051	ND	ND	ND	
	1/7/1998	0.0014	ND	ND	ND	ND	ND	
	2/13/1998	0.0036	ND	ND	ND	ND	ND	
	4/14/1998	ND	ND	ND	ND	ND	NT	
	7/21/1998	ND	ND	ND	ND	ND	NT	
	10/13/1998	ND	ND	ND	ND	ND	NT	
	1/18/1999	ND	ND	ND	ND	ND	NT	
OW-07	2/16/2000	ND	ND	ND	ND	ND	NT	
	2/16/2000	ND	ND	ND	ND	ND	NT	
	4/20/2000	ND	ND	ND	ND	ND	ND	
	7/17/2000	ND	ND	ND	ND	ND	ND	
	10/19/2000	ND	ND	ND	ND	ND	ND	
	2/2/2001	ND	ND	ND	ND	ND	ND	
	4/27/2001	ND	ND	ND	ND	ND	ND	
	7/25/2001	ND	ND	ND	ND	ND	ND	
	10/30/2001	0.0009	ND	ND	ND	ND	ND	
	2/1/2002	ND	ND	ND	ND	ND	ND	
	4/18/2002	ND	ND	ND	ND	ND	NT	
	7/25/2002	0.0098	ND	ND	ND	ND	ND	
	10/28/2002	0.0037	ND	ND	ND	ND	ND	
	1/20/2003	0.0017	ND	ND	ND	ND	ND	
	4/29/2003	0.0017	ND	ND	ND	ND	ND	
	7/19/2003	0.001	ND	ND	ND	ND	ND	
	10/30/2003	ND	ND	ND	ND	ND	ND	
	1/30/2004	0.0008	ND	ND	ND	ND	ND	
	5/19/2004	ND	ND	ND	ND	ND	ND	
	7/30/2004	0.0013	ND	ND	ND	ND	ND	
	10/26/2004	ND	ND	ND	ND	ND	ND	
	1/31/2005	ND	ND	ND	ND	ND	ND	
	4/27/2005	ND	ND	ND	ND	ND	ND	
	7/26/2005	ND	ND	ND	ND	ND	ND	
	10/28/2005	ND	ND	ND	ND	ND	ND	
	1/30/2006	ND	ND	ND	ND	ND	ND	
	4/21/2006	ND	ND	ND	ND	ND	ND	



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	METHANE IN	BENZENE IN	TOLUENE IN	E.BENZENE	XYLENE IN	TVPH	Comments
		WATER	WATER	WATER	IN WATER	WATER	IN WATER	
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
LABORATORY DETECTION LIMITS		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS		NA	0.005	1	0.68	10	NA	
CW-08A	12/14/2000	NT	0.035	0.0071	ND	0.0043	NT	
	1/18/2001	NT	NT	NT	NT	NT	NT	
	2/1/2001	4.3	0.097	ND	ND	ND	0.21	
	3/16/2001	NT	0.032	ND	ND	ND	NT	
	4/27/2001	7.1	0.023	ND	ND	ND	ND	
	5/21/2001	NT	0.017	ND	ND	ND	ND	
	7/25/2001	2.79	0.025	ND	ND	ND	ND	
	8/15/2001	NT	0.0088	ND	ND	ND	ND	
	9/21/2001	NT	0.015	ND	ND	ND	NT	
	10/30/2001	0.047	0.016	ND	ND	ND	ND	
	12/13/2001	NT	0.02	ND	ND	ND	NT	
	1/19/2002	NT	0.014	ND	ND	ND	NT	
	2/1/2002	1.9	0.014	ND	ND	ND	ND	
	3/15/2002	2.4	0.011	ND	ND	ND	NT	
	4/18/2002	3.1	0.0078	ND	ND	ND	NT	
	5/28/2002	2.5	0.0046	ND	ND	ND	NT	
	7/25/2002	2	0.0054	ND	ND	ND	ND	
	8/12/2002	2.06	0.006	ND	ND	ND	ND	
	9/5/2002	1.7	0.0034	ND	ND	ND	NT	
	10/28/2002	3	0.0061	ND	ND	ND	ND	
	12/3/2002	2.7	0.0065	ND	ND	ND	NT	
	12/30/2002	4.5	0.012	ND	ND	0.017	NT	
	1/21/2003	12	0.015	ND	ND	ND	ND	
	3/7/2003	12	0.017	ND	ND	ND	NT	
	4/29/2003	13	0.015	ND	ND	ND	ND	
	5/23/2003	12	0.013	ND	ND	ND	ND	
	6/19/2003	12	0.013	ND	ND	ND	ND	
	7/18/2003	5.8	0.012	ND	ND	ND	ND	
	9/2/2003	NT	0.026	ND	ND	ND	ND	
	9/24/2003	13	0.025	ND	ND	ND	ND	
	10/1/2003	12	0.022	ND	ND	ND	ND	
	10/30/2003	12	0.018	ND	ND	ND	ND	
	12/1/2003	14	0.018	ND	ND	ND	ND	
	12/16/2003	15	0.019	ND	ND	ND	ND	
	1/30/2004	10	0.016	ND	ND	ND	ND	
	2/23/2004	16	0.015	ND	ND	ND	ND	
	4/1/2004	9.6	0.013	ND	ND	ND	ND	
	5/19/2004	6.3	0.016	ND	ND	ND	ND	
	7/1/2004	9.1	0.014	ND	ND	ND	ND	
	10/26/2004	16	0.0088	ND	ND	ND	ND	
	11/29/2004	13	0.0091	ND	ND	ND	ND	
	1/5/2005	6.8	0.0015	ND	ND	ND	ND	No Purge
	1/5/2005	14	0.011	ND	ND	ND	ND	2 Hour Purge
	1/31/2005	10	0.0043	ND	ND	ND	ND	No Purge
	1/31/2005	12	0.01	ND	ND	ND	ND	1 Hour Purge
	3/7/2005	10	0.0039	ND	ND	ND	ND	No Purge
	3/7/2005	15	0.0099	ND	ND	ND	ND	1 3/4 Hour Purge
	4/27/2005	9.8	0.0098	ND	ND	ND	ND	No Purge
	4/27/2005	12	0.013	ND	ND	ND	ND	1 1/2 Purge
	5/27/2005	10	ND	ND	ND	ND	ND	No Purge
	5/27/2005	13	ND	ND	ND	ND	ND	1/2 Hour Purge
	6/29/2005	3.4	ND	ND	ND	ND	ND	No Purge
	6/29/2005	4.9	0.0035	ND	ND	ND	ND	1/2 Hour Purge
	7/26/2005	ND	ND	ND	ND	ND	ND	No Purge
	7/26/2005	1.5	0.0016	ND	ND	ND	ND	2 Hour Purge
	8/25/2005	2.4	ND	ND	ND	ND	ND	No Purge
	8/25/2005	3.9	0.0025	ND	ND	ND	ND	1 Hour Purge
	9/21/2005	0.83	ND	ND	ND	ND	ND	No Purge
	9/21/2005	3.2	ND	ND	ND	ND	ND	1 Hour Purge
	10/28/2005	3.2	ND	ND	ND	ND	ND	No Purge
	10/28/2005	4.5	ND	ND	ND	ND	ND	1 Hour Purge
	11/29/2005	6.2	ND	ND	ND	ND	ND	No Purge
	11/29/2005	9.4	0.0067	ND	ND	ND	ND	1 Hour Purge
	1/5/2006	5.5	ND	ND	ND	ND	ND	No Purge
	1/5/2006	7.8	0.0094	ND	ND	ND	ND	1 hour Purge
	1/30/2006	4.7	ND	ND	ND	ND	ND	No Purge
	1/30/2006	8.4	0.0031	ND	ND	ND	ND	1 Hour Purge
	2/28/2006	2.1	ND	ND	ND	ND	ND	No Purge
	2/28/2006	7.3	0.0011	ND	ND	ND	ND	1 Hour Purge
	3/30/2006	6.5	ND	ND	ND	ND	ND	No Purge
	3/30/2006	14	ND	ND	ND	ND	ND	1 Hour Purge
	4/21/2006	9.2	0.0079	ND	ND	ND	ND	2 Hour Purge
	6/6/2006	5.9	ND	ND	ND	ND	ND	No Purge
	6/6/2006	8.7	ND	ND	ND	ND	ND	2 Hour Purge
	7/12/2006	3.9	ND	ND	ND	ND	ND	No Purge
	7/12/2006	7.1	ND	ND	ND	ND	ND	1 Hour Purge

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	METHANE IN	BENZENE IN	TOLUENE IN	E.BENZENE	XYLENE IN	TVPH	Comments
		WATER	WATER	WATER	IN WATER	WATER	IN WATER	
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
LABORTORY DETECTION LIMITS		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS		NA	0.005	1	0.68	10	NA	
OW-088	12/14/2000	NT	ND	ND	ND	ND	ND	
	1/18/2001	NT	NT	NT	NT	NT	NT	
	2/1/2001	0.18	ND	ND	ND	ND	ND	
	3/16/2001	NT	ND	ND	ND	ND	ND	
	4/27/2001	0.0029	ND	ND	ND	ND	ND	
	5/21/2001	NT	ND	ND	ND	ND	ND	
	7/25/2001	0.56	0.0025	ND	ND	ND	ND	
	8/15/2001	NT	ND	ND	ND	ND	ND	
	9/21/2001	NT	ND	ND	ND	ND	NT	
	10/30/2001	1.4	ND	ND	ND	ND	ND	
	12/13/2001	NT	ND	ND	ND	ND	NT	
	1/10/2002	NT	ND	ND	ND	ND	NT	
	2/1/2002	1.1	ND	ND	ND	ND	ND	
	3/15/2002	0.29	ND	ND	ND	ND	NT	
	4/18/2002	1	ND	ND	ND	ND	NT	
	5/29/2002	1.3	0.0013	ND	ND	ND	NT	
	7/25/2002	2.5	0.0015	ND	ND	ND	ND	
	8/12/2002	0.68	ND	ND	ND	ND	ND	
	9/6/2002	0.52	ND	ND	ND	ND	NT	
	10/28/2002	2.7	ND	ND	ND	ND	ND	
	12/3/2002	2.4	0.0044	ND	ND	ND	NT	
GOAD original	9/17/1997	11	1	1.5	0.031	0.51	NT	
	9/29/1997	0.0092	1.7	2.2	0.056	670	NA	
	10/8/1997	NT	NT	NT	NT	NT	ND	
abandoned	10/23/1997	0.064	0.82	1	0.078	0.32	NA	
D-1	5/19/2004	6.6	0.005	ND	ND	ND	ND	
	10/14/2004	0.068	ND	ND	ND	ND	ND	
	1/31/2005	ND	ND	ND	ND	ND	ND	
	5/27/2005	0.91	0.0065	ND	ND	ND	ND	
	7/27/2005	ND	0.001	ND	ND	ND	ND	
	10/28/2005	0.2	ND	ND	ND	ND	ND	
	3/30/2006	ND	ND	ND	ND	ND	ND	
	7/12/2006	2.7	ND	ND	ND	ND	ND	
D-2	5/19/2004	10	0.0054	ND	ND	ND	ND	
	10/14/2004	1.6	0.0011	ND	ND	ND	ND	
	1/31/2005	2.2	0.0013	ND	ND	ND	ND	
	5/27/2005	0.91	ND	ND	ND	ND	ND	
	7/27/2005	ND	ND	ND	ND	ND	ND	
	10/28/2005	0.0043	ND	0.002	ND	0.0025	ND	
	3/30/2006	0.0077	ND	ND	ND	ND	ND	
	7/12/2006	ND	ND	ND	ND	ND	ND	



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE IN	BENZENE IN	TOLUENE IN	E.BENZENE	XYLENE IN	TVPH	Comments
		WATER	WATER	WATER	IN WATER	WATER	IN WATER	
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
LABORATORY DETECTION LIMITS		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS		NA	0.005	1	0.68	10	NA	
DW-01	10/29/1997	12.59	0.41	0.57	0.009	0.108	NT	
	12/23/1997	2.3	0.13	0.14	ND	0.0306	ND	
	1/27/1998	15	0.23	0.17	0.0074	0.107	1.2	
	4/5/1998	13	0.19	0.014	0.0063	0.0529	0.65	
	5/21/1998	9.3	0.2	0.021	0.0052	0.0424	0.6	
	7/21/1998	8.4	0.11	0.008	ND	0.0175	0.53	
	10/13/1998	8.9	0.13	0.0064	0.0014	0.0103	0.4	
	12/4/1998	10	0.13	0.0032	0.0013	0.0043	0.32	
	1/18/1999	5.4	0.18	0.0027	0.0007	0.0061	0.35	
	3/9/1999	12	0.18	0.005	0.0011	0.0038	0.24	
	4/15/1999	5.6	0.18	0.0043	0.00082	0.0042	NT	
	7/14/1999	11	0.22	0.0023	0.00064	0.0028	0.21	
	10/14/1999	27	0.18	ND	ND	0.0077	0.24	
	2/3/2000	4.0548	0.16	ND	0.00044	0.00049	0.48	
	4/26/2000	6.5372	0.17	ND	ND	ND	ND	
	7/17/2000	3.2311	0.16	ND	ND	ND	ND	
	10/19/2000	2.6504	0.15	ND	ND	ND	0.46	
	7/12/2006	2.2	ND	ND	ND	ND	ND	
WW-02	7/8/1997	ND	NT	NT	NT	NT	NA	
	9/18/1997	NT	NT	NT	NT	NT	NT	
	9/19/1997	ND	ND	ND	ND	ND	NA	
	10/8/1997	NT	NT	NT	NT	NT	NT	
	10/22/1997	ND	ND	ND	ND	ND	NA	
	12/30/1997	0.0039	ND	ND	ND	ND	ND	
	1/27/1998	0.0042	ND	ND	ND	ND	ND	
	3/17/1998	0.026	ND	ND	ND	ND	NT	
	4/14/1998	0.058	ND	ND	ND	ND	NT	
	5/12/1998	ND	ND	ND	ND	ND	NT	
	7/21/1998	0.018	ND	ND	ND	ND	NT	
	10/13/1998	0.0026	ND	ND	ND	ND	NT	
	1/19/1999	ND	ND	ND	ND	ND	NT	
	4/15/1999	ND	ND	ND	ND	ND	NT	
	7/14/1999	0.0059	ND	ND	ND	ND	NT	
	10/14/1999	ND	ND	ND	ND	ND	NT	
	2/3/2000	ND	ND	ND	ND	ND	NT	
	4/20/2000	ND	ND	ND	ND	ND	NT	
	7/17/2000	ND	ND	ND	ND	ND	NT	
	10/19/2000	ND	ND	ND	ND	ND	NT	
	2/1/2001	ND	ND	ND	ND	ND	NT	
	4/27/2001	ND	ND	ND	ND	ND	NT	
	2/1/2002	ND	ND	ND	ND	ND	ND	
	4/18/2002	ND	ND	ND	ND	ND	NT	
	7/25/2002	ND	ND	ND	ND	ND	ND	
	10/28/2002	ND	ND	ND	ND	ND	ND	
	1/20/2003	ND	ND	ND	ND	ND	ND	
	4/29/2003	0.0012	ND	ND	ND	ND	ND	
	7/18/2003	ND	ND	ND	ND	ND	ND	
	10/30/2003	0.0019	ND	ND	ND	ND	ND	
	1/30/2004	ND	ND	ND	ND	ND	ND	
	5/19/2004	0.0099	ND	ND	ND	ND	ND	
	7/30/2004	ND	ND	ND	ND	ND	ND	
	10/26/2004	ND	ND	ND	ND	ND	ND	
	1/31/2005	0.0016	ND	ND	ND	ND	ND	
	4/27/2005	ND	ND	ND	ND	ND	ND	
	7/26/2005	ND	ND	ND	ND	ND	ND	
	10/28/2005	ND	ND	ND	ND	ND	ND	
	1/31/2006	ND	ND	ND	ND	ND	ND	
	4/21/2006	ND	ND	ND	ND	ND	ND	
DW-03	9/17/1997	0.12	ND	ND	ND	ND	NT	
	9/19/1997	0.0019	ND	ND	ND	ND	NA	
	9/29/1997	0.0013	ND	ND	ND	0.00068	NA	
	10/8/1997	NT	NT	NT	NT	NT	NT	
	10/22/1997	ND	ND	ND	ND	ND	NA	
	12/23/1997	0.075	ND	ND	ND	ND	ND	
	1/27/1998	0.076	ND	ND	ND	ND	ND	
	3/17/1998	0.11	ND	ND	ND	ND	NT	
	4/13/1998	0.069	ND	ND	ND	ND	NT	
	5/12/1998	0.075	ND	ND	ND	ND	NT	
	7/21/1998	0.1	ND	ND	ND	ND	NT	
	10/13/1998	ND	ND	ND	ND	ND	NT	
	1/19/1999	0.028	ND	ND	ND	ND	NT	
	4/15/1999	0.042	ND	ND	ND	ND	NT	
	7/14/1999	ND	ND	ND	ND	ND	NT	
	10/14/1999	0.16	ND	ND	ND	ND	NT	
	2/3/2000	0.1344	ND	ND	ND	ND	NT	
	4/20/2000	0.1992	ND	ND	ND	ND	NT	
	7/17/2000	0.3035	ND	ND	ND	ND	NT	
	10/19/2000	0.164	ND	ND	ND	ND	NT	
	2/1/2001	0.089	ND	ND	ND	ND	NT	
	4/27/2001	0.15	ND	ND	ND	ND	NT	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	METHANE IN WATER	BENZENE IN WATER	TOLUENE IN WATER	E.BENZENE IN WATER	XYLENE IN WATER	TVPH IN WATER	Comments
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
LABORATORY DETECTION LIMITS		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS		NA	0.005	1	0.68	10	NA	
DW-04	7/8/1997	ND	NT	NT	NT	NT	NA	
	9/17/1997	NT	NT	NT	NT	NT	NT	
	9/19/1997	ND	ND	ND	ND	0.00068	NA	
	10/8/1997	NT	NT	NT	NT	NT	NT	
	10/23/1997	ND	ND	ND	ND	ND	NA	
	12/23/1997	ND	ND	ND	ND	ND	ND	
	1/27/1998	ND	ND	ND	ND	ND	ND	
	3/17/1998	ND	ND	ND	ND	ND	NT	
	4/14/1998	ND	ND	ND	ND	ND	NT	
	5/12/1998	ND	ND	ND	ND	ND	NT	
	7/21/1998	0.0015	ND	ND	ND	ND	NT	
	10/14/1998	0.0015	ND	ND	ND	ND	NT	
	1/19/1999	0.002	0.00046	ND	ND	ND	NT	
	2/1/1999	ND	ND	ND	ND	ND	NT	
	3/9/1999	ND	ND	ND	ND	ND	NT	
	4/15/1999	ND	ND	ND	ND	ND	NT	
	7/14/1999	0.0053	ND	ND	ND	ND	NT	
	10/14/1999	ND	ND	ND	ND	ND	NT	
	2/3/2000	ND	ND	ND	ND	ND	NT	
	4/20/2000	ND	ND	ND	ND	ND	NT	
	7/17/2000	ND	ND	ND	ND	ND	NT	
	10/19/2000	ND	ND	ND	ND	ND	NT	
	2/1/2001	ND	ND	ND	ND	ND	NT	
	4/27/2001	ND	ND	ND	ND	ND	NT	
DW-05	9/17/1997	NT	NT	NT	NT	NT	NT	
	9/19/1997	ND	ND	ND	ND	0.00051	NA	
	9/29/1997	ND	ND	ND	ND	ND	NA	
	10/8/1997	NT	NT	NT	NT	NT	NT	
	10/22/1997	ND	ND	ND	ND	ND	NA	
	12/23/1997	0.016	ND	ND	ND	ND	ND	
	1/27/1998	0.016	ND	ND	ND	ND	ND	
	4/13/1998	0.0031	ND	ND	ND	ND	NT	
	7/21/1998	0.0089	ND	ND	ND	ND	NT	
	10/14/1998	ND	ND	ND	ND	ND	NT	
	2/1/1999	ND	ND	ND	ND	ND	NT	
DW-06	9/18/1997	ND	NT	NT	NT	NT	NT	
	9/19/1997	ND	ND	ND	ND	ND	NA	
	10/8/1997	NT	NT	NT	NT	NT	NT	
	10/23/1997	0.0002	ND	ND	ND	ND	NA	
	12/23/1997	0.0019	ND	ND	ND	ND	ND	
	1/27/1998	0.0042	ND	ND	ND	ND	ND	
	4/13/1998	0.0028	ND	ND	ND	ND	NT	
	7/21/1998	0.0035	ND	ND	ND	ND	NT	
	10/14/1998	ND	ND	ND	ND	ND	NT	
	1/19/1999	ND	ND	ND	ND	ND	NT	



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	METHANE IN	BENZENE IN	TOLUENE IN	E.BENZENE	XYLENE IN	TVPH	Comments
		WATER	WATER	WATER	IN WATER	WATER	IN WATER	
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
LABORTORY DETECTION LIMITS		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS		NA	0.005	1	0.68	10	NA	
DW-07	9/19/1997	ND	ND	ND	ND	ND	NA	
	10/8/1997	NT	NT	NT	NT	NT	NT	
	10/23/1997	ND	ND	ND	ND	ND	ND	
	12/23/1997	ND	ND	ND	ND	ND	NA	
	1/27/1998	ND	ND	ND	ND	ND	ND	
	4/13/1998	ND	ND	ND	ND	ND	NT	
	7/21/1998	ND	ND	ND	ND	ND	NT	
	10/14/1998	ND	ND	ND	ND	ND	NT	
	1/19/1999	ND	ND	ND	ND	ND	NT	
DW-08	9/18/1997	7.4	ND	ND	ND	ND	NT	
	6/20/1997	ND	ND	ND	ND	0.0018	NA	
	9/29/1997	ND	ND	ND	ND	ND	NA	
	10/8/1997	NT	NT	NT	NT	NT	NT	
	10/23/1997	0.051	ND	ND	ND	ND	NA	
	12/23/1997	4.5	ND	ND	ND	ND	ND	
	1/27/1998	0.10	ND	ND	ND	ND	ND	
	4/13/1998	0.0018	ND	ND	ND	ND	NT	
	7/21/1998	0.0018	ND	ND	ND	ND	NT	
	10/13/1998	1.4	ND	ND	ND	ND	NT	
	1/19/1999	ND	ND	ND	ND	ND	NT	
	4/15/1999	ND	ND	ND	ND	ND	NT	
WW-09	1/7/1998	ND	ND	ND	ND	ND	ND	
	1/27/1998	ND	ND	ND	ND	ND	NT	
DW-10	7/8/1997	ND	NT	NT	NT	NT	NT	
	9/18/1997	ND	ND	ND	ND	ND	NT	
	10/23/1997	ND	ND	ND	ND	ND	NT	
	12/24/1997	ND	ND	ND	ND	ND	ND	
	1/28/1998	ND	ND	ND	ND	ND	NT	
	4/13/1998	ND	ND	ND	ND	ND	NT	
	7/21/1998	ND	ND	ND	ND	ND	NT	
	10/14/1998	0.0047	ND	ND	ND	ND	NT	
DW-11	9/29/1997	ND	ND	0.002	ND	0.0062	NA	
	10/23/1997	ND	ND	ND	ND	ND	NA	
	12/24/1997	0.0017	ND	ND	ND	ND	ND	
	1/28/1998	ND	ND	ND	ND	ND	ND	
	4/13/1998	0.0016	ND	ND	ND	ND	NT	
	7/21/1998	0.004	ND	ND	ND	ND	NT	
DW-12	11/24/1997	NA	ND	ND	ND	ND	ND	
	12/24/1997	ND	ND	ND	ND	ND	ND	
	1/27/1998	ND	ND	ND	ND	ND	NT	
	4/13/1998	ND	ND	ND	ND	ND	NT	
	7/21/1998	ND	ND	ND	ND	ND	NT	
	10/13/1998	ND	ND	ND	ND	ND	NT	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE IN	BENZENE IN	TOLUENE IN	E.BENZENE	XYLENE IN	TVPH	Comments
		WATER	WATER	WATER	IN WATER	WATER	IN WATER	
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
LABORATORY DETECTION LIMITS		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS		NA	0.005	1	0.68	10	NA	
DW-13	9/29/1997	ND	ND	0.0018	ND	0.0052	NA	
	10/8/1997	NT	NT	NT	NT	NT	NT	
	10/23/1997	ND	ND	ND	ND	ND	NA	
	12/24/1997	ND	ND	ND	ND	ND	ND	
	1/28/1998	ND	ND	ND	ND	ND	ND	
	4/13/1998	ND	ND	ND	ND	ND	NT	
	7/21/1998	ND	ND	ND	ND	ND	NT	
	10/13/1998	ND	ND	ND	ND	ND	NT	
DW-14	1/6/1998	ND	ND	ND	ND	ND	ND	
	1/28/1998	ND	ND	ND	ND	ND	NT	
	4/13/1998	ND	ND	ND	ND	ND	NT	
	7/21/1998	ND	ND	ND	ND	ND	NT	
	10/13/1998	ND	ND	ND	ND	ND	NT	
DW-15	9/18/1997	ND/ND	ND	ND	ND	ND	NT	
	10/22/1997	ND	ND	ND	ND	ND	NT	
	12/22/1997	ND	ND	ND	ND	ND	ND	
	4/14/1998	ND	ND	ND	ND	ND	NT	
	7/21/1998	ND	ND	ND	ND	ND	NT	
	10/13/1998	0.0026	ND	ND	ND	ND	NT	
DW-16	9/18/1997	NT	NT	NT	NT	NT	NT	
	9/19/1997	ND	ND	ND	ND	ND	NA	
	10/22/1997	ND	ND	ND	ND	ND	NA	
	12/23/1997	ND	ND	ND	ND	ND	ND	
	4/14/1998	ND	ND	ND	ND	ND	NT	
DW-17	9/18/1997	NT	NT	NT	NT	NT	NT	
	9/19/1997	ND	ND	ND	ND	ND	NA	
	10/22/1997	ND	ND	ND	ND	ND	NA	
	12/22/1997	ND	ND	ND	ND	ND	ND	
DW-18	1/28/1997	ND	ND	ND	ND	ND	ND	
DW-19	1/6/1998	ND	ND	ND	ND	ND	ND	
DW-20	12/24/1997	ND	ND	ND	ND	ND	ND	
DW-21	11/24/1997	NA	ND	ND	ND	ND	ND	
	12/23/1997	ND	ND	ND	ND	ND	ND	
DW-22	11/24/1997	NA	ND	ND	ND	ND	ND	
	12/22/1997	ND	ND	ND	ND	ND	ND	
SW-23	11/23/1997	NA	ND	ND	ND	ND	ND	
	12/23/1997	ND	ND	ND	ND	ND	ND	
SW-24	9/18/1997	NT	NT	NT	NT	NT	NT	
	9/19/1997	ND	ND	ND	ND	ND	NA	
SW-25	9/18/1997	NT	NT	NT	NT	NT	NT	
	9/19/1997	ND	ND	ND	ND	ND	NA	
	10/22/1997	ND	ND	ND	ND	ND	NA	
SW-26	9/18/1997	ND	NT	NT	NT	NT	NT	
	9/19/1997	ND	ND	ND	ND	ND	ND	
SW-27	9/17/1997	NT	NT	NT	NT	NT	NT	
	9/19/1997	ND	ND	ND	ND	ND	ND	
DW-28	8/3/1998	0.1	ND	ND	ND	ND	ND	
	10/13/1998	0.5	ND	ND	ND	ND	NT	
	1/19/1999	ND	ND	ND	ND	ND	NT	
	4/15/1999	0.22	ND	ND	ND	ND	NT	
TVPH=TOTAL VOLATILE PETROLEUM HYDROCARBONS; NT=NOT TESTED; NA=NOT AVAILABLE; ND=NOT DETECTED; PDG=ANALYSIS IN PROGRESS, RESULTS PENDING								
**Secondary Drinking Water Standard; Laboratory Detection Limits are for unfiltered samples.								