



**EXPLORATION AND PRODUCTION**

1058 CR #215  
P.O. Box 370  
Parachute, Colorado 81635  
970/285-9377 – 970/285-9573 (fax)

April 27, 2009  
(Via FedEx)

Mr. Chris Canfield, P.G.  
Environmental Protection Specialist, Northwest Region  
Colorado Oil & Gas Conservation Commission  
707 Wapiti Court  
Suite 204  
Rifle, CO 81650

Re: Completion of Remediation; Request for Issuance of No Further Action Letter  
for the Goad Property, Section 34, Township 6 South, Range 93 West, Rifle, Colorado

Dear Mr. Canfield,

Williams Production RMT Company (Williams) has completed four quarters of groundwater monitoring in accordance with the Form 27 submitted to you in December 2008 related to the RMV 108-4 release that occurred in September 1997 at the above-referenced property. Laboratory data demonstrates that benzene concentrations for all quarterly groundwater monitoring samples collected during the past four consecutive quarterly monitoring events remained below the maximum contaminant level (MCL). A copy of the laboratory analytical results is attached.

The remediation work plan dictates that groundwater monitoring be conducted to verify that the various cleanup technologies implemented at the site over the course of the previous ten years have succeeded in remediating groundwater contamination to established cleanup standards.

Since cleanup activities have achieved the desired cleanup standards, Williams will discontinue any further remediation and monitoring activities and requests that COGCC issue a letter stating that no further action is required by Williams and Williams will decommission all remediation equipment and abandon all wells according to the requirements of the State Engineers Office.

Please feel free to contact me if you have any questions or concerns.

Sincerely,

Karolina Blaney  
Environmental Specialist  
Piceance - Valley Asset Team  
(970) 683-2295 (Office)  
(970) 589-0743 (Cell)  
Karolina.Blaney@williams.com

Attachments (6):

Report

Tables

Figures

Attachment A – Form 27

Attachment B – Historical Summary

Attachment C – Laboratory reports for 2008/2009

cc : Rob Bleil

Mike Paules

Elizabeth Joyner, Esq.

Sandy Hotard

W. Goad

File: Spills/Plans & Documents



# **Goad Well Remediation Status Report**

**April 27, 2009**

**Prepared By:**

**Olsson Associates  
826 21 ½ Rd  
Grand Junction, CO 81505  
Tel. 970 263 7800  
Fax. 970 263 7456**

Cordilleran Compliance Services, Inc. (Cordilleran), a division of Olsson Associates, has completed groundwater monitoring and remediation activities in the area of the Goad property, on behalf of Williams Production RMT (Williams). The Goad property is located in Section 34, Township 6 south, Range 93 west, at 4120 Rifle-Rulison Road 320 in Rifle, CO (Figure 1). In January 2008, a revised groundwater monitoring plan and Form 27 were submitted to the Colorado Oil and Gas Conservation Commission (COGCC), which included a summary of groundwater monitoring results prior to 2008. Did we get a response from COGCC? When??

This report summarizes the groundwater monitoring activities and results obtained during the past four consecutive quarterly events since 2008. The results for this period indicated that there were no detections of benzene in any of the wells monitored at concentrations that exceed the established cleanup standard..

### Background

Groundwater beneath the Goad property and the “Old Goad Well” had been impacted by methane and benzene in 1997 as a result of difficulties with the installation of a nearby gas well, RMV108-4. In 1998, a pump-and-treat groundwater treatment system was installed, which extracted impacted groundwater from well OW8A, treated the groundwater removed by granular activated carbon filtration, and re-injected the treated water into well DW-01 (Figure 1). This system was operated until the spring of 2003. Groundwater monitoring data indicated that this system was effective in lowering concentrations of the chemicals of concern (COCs), methane and benzene, to below maximum contaminant levels (MCL). However, the concentrations of these COCs rebounded after the system was turned off indicating that residual hydrocarbons remained in the subsurface that were not recovered by pumping (Figure 2, Attachment A). .

In July 2004, an “in-situ” air sparge groundwater treatment system was installed in the area near OW8A in order to reduce residual hydrocarbon concentrations in groundwater. This system consisted of the downhole treatment of groundwater with two air sparge wells (D1-and D2) installed in the area of OW08 and the “Old Goad Well” (Figure 1). In May 2005, aeration of the OW8A well was added to the two air sparge wells for additional treatment of impacted groundwater. The sparging of the two wells, along with the aeration of the OW-8A well, was discontinued in August 2007, since the groundwater monitoring demonstrated that benzene concentrations remained below the state cleanup standard.

### 2008 and 2009 Groundwater Monitoring Events

Figure 1 (attached) shows the locations of the monitoring wells that were used to monitor groundwater conditions during 2008 and 2009. Groundwater monitoring wells OW-01, OW-02, OW-03, OW-05, OW-06, OW-07, WW-02, DW-03, and DW-04 were sampled one time in April 2008 (Figure 1). Monitoring wells DW-01, OW-08A and OW-04 were sampled quarterly in April 2008, August 2008, November 2008 and February 2009 (Figure 1). Groundwater levels were measured in all wells in April 2008, August 2008 and February 2009 (Table 1). Groundwater samples were submitted to Evergreen Analytical, Wheat Ridge, Colorado for analysis by Method 8021B. During each sampling event, field parameters consisting of pH, temperature, dissolved oxygen, turbidity, specific conductance and total dissolved solids were obtained prior to sample acquisition and after purging three casing volumes from each well,

## 2008 and 2009 Groundwater Monitoring Analytical Results

Table 1 summarizes the analytical data that has been collected for the groundwater in the area of the Goad property for 2008 and 2009. Figure 2 displays the trend of benzene concentrations in well OW8A since 2000. Figure 3 shows the trend of benzene concentrations in well DW-01 since 1997. Figure 4 shows the results of the analytical data for BTEX. Attachment B contains the historical results for all wells that were monitored in the area and Attachment C contains the laboratory reports for 2008/2009.

The groundwater potentiometric maps for April 2008 (Figure 5), August 2008 (Figure 6) and January 2009 (Figure 7) indicate that groundwater flow is directed towards the north or the Colorado River. The groundwater gradient for all three monitoring periods was similar at a rate of 0.147 ft/ft in April and 0.115 ft/ft in August and February. The groundwater levels during these monitoring periods did not show any significant variation in water levels associated with seasonal changes.

The results for all of the monitoring wells indicated no concentrations of benzene exceed the state cleanup standard of 0.005 mg/L (Table 1). Monitoring well DW-01 showed only one detection above the lower detection level (LDL) of 0.0004 mg/L in August 2008 at 0.0034 mg/L. Monitoring well OW8A showed detections of benzene above the LDL in April 2008 at 0.0012 mg/L, in August 2008 at 0.0017 mg/L, in November 2008 at 0.0013 mg/L and below the LDL of 0.0004 mg/L in January 2009.

## Well Abandonment and Reclamation

All monitoring wells in the area will be abandoned according to the Colorado State Engineer's guidelines. The wells that will need to be abandoned include OW-01, OW-02, OW-03, OW-04, OW-05, OW-06, OW-07, OW-08A, DW-01, D1 and D2. Following the abandonment of these wells, a new domestic water supply well will be permitted and installed to replace the "Old Goad Well".

## Summary

After nearly 10 years of groundwater remediation, the established cleanup levels for groundwater have been achieved and verified through four quarters of consecutive groundwater monitoring for the Goad Well property, as specified in the Remediation Work Plan approved by the COGCC. Based on these results, Williams requests that the COGCC formally close this remediation action and issue a letter to Williams indicating that no further action is necessary.

## TABLES

**Table 1**  
**Summary of Results for 2008/2009**

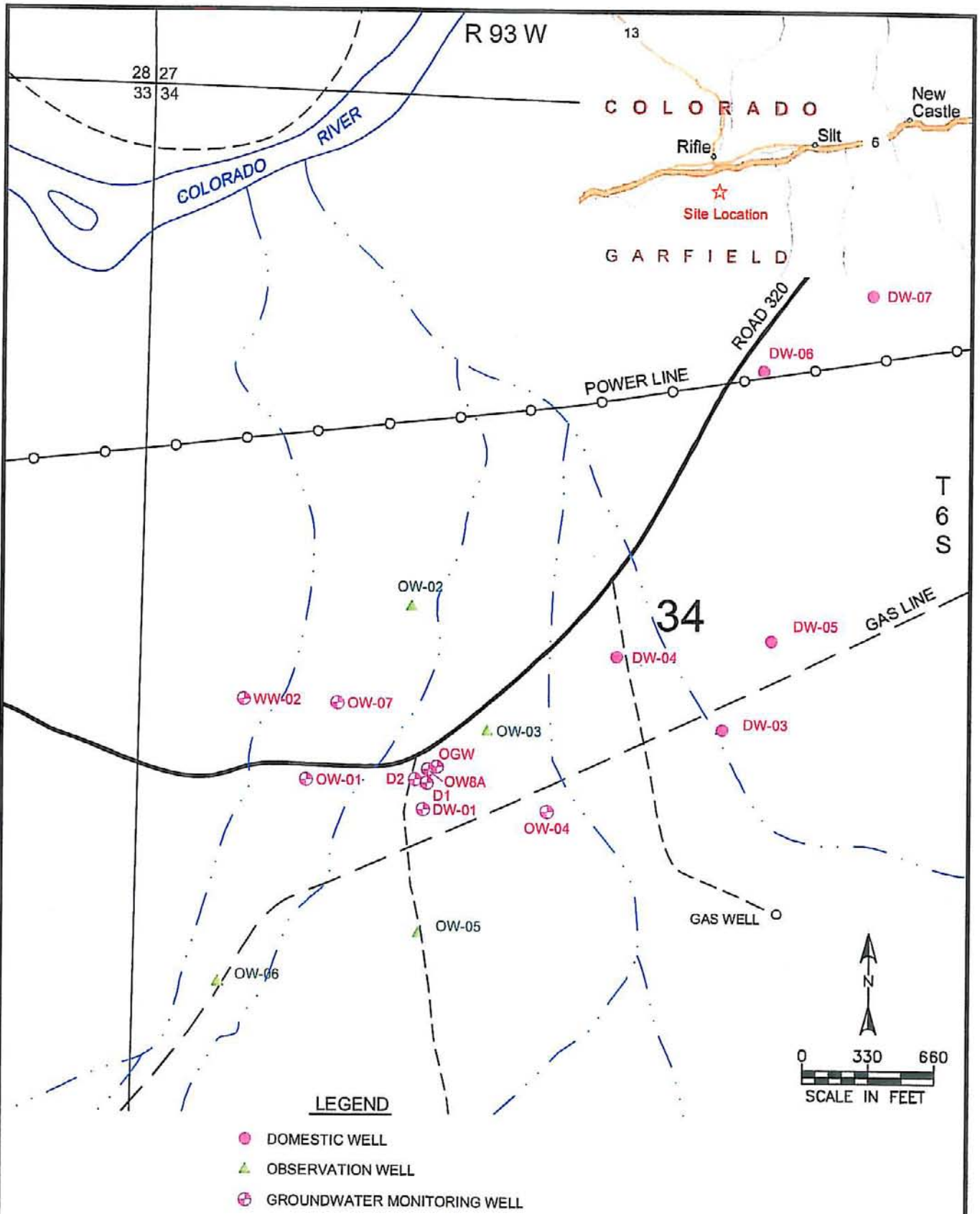
Location	Sample Date	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
Drinking water standards				0.005	1	0.68	10
OW-01	4/25/2008	92.43	5364.37	<0.0004	<0.0004	<0.0004	<0.0004
	8/8/2008	92.14	5364.66	NS	NS	NS	NS
	1/28/2009	92.90	5363.90	NS	NS	NS	NS
OW-02	This well is historically dry						
OW-03	4/25/2008	132.39	5278.01	<0.0004	<0.0004	<0.0004	<0.0004
	8/8/2008	131.40	5279.00	NS	NS	NS	NS
	1/28/2009	132.07	5278.33	NS	NS	NS	NS
OW-04	4/24/2008	56.85	5364.15	<0.0004	<0.0004	<0.0004	<0.0004
	8/8/2008	48.09	5372.91	<0.0004	<0.0004	<0.0004	<0.0004
	11/4/2008	NM	NM	<0.0004	<0.0004	<0.0004	<0.0004
	1/28/2009	55.91	5365.09	<0.0004	<0.0004	<0.0004	<0.0004
OW-05	4/28/2008	52.50	5423.20	<0.0004	<0.0004	<0.0004	<0.0004
	8/8/2008	53.27	5422.43	NS	NS	NS	NS
	1/28/2009	52.90	5422.80	NS	NS	NS	NS
OW-06	4/28/2008	NM	NM	<0.0004	<0.0004	<0.0004	<0.0004
	8/8/2008	76.00	5494.90	NS	NS	NS	NS
	1/28/2009	75.99	5494.91	NS	NS	NS	NS
OW-07	4/28/2008	107.08	5324.12	<0.0004	<0.0004	<0.0004	<0.0004
	8/8/2008	106.55	5324.65	NS	NS	NS	NS
	1/28/2009	107.12	5324.08	NS	NS	NS	NS
OW-08A	4/24/2008	82.07	5361.63	0.0012	<0.0004	<0.0004	<0.0004
	8/8/2008	77.75	5365.95	0.0017	<0.0004	<0.0004	<0.0004
	11/4/2008	NM	NM	0.0013	<0.0004	<0.0004	<0.0004
	1/28/2009	81.44	5362.26	<0.0004	<0.0004	<0.0004	<0.0004
DW-01	4/24/2008	87.06	5362.24	<0.0004	<0.0004	<0.0004	<0.0004
	8/8/2008	81.98	5367.32	0.0034	<0.0004	<0.0004	<0.0004
	11/4/2008	NM	NM	<0.0004	<0.0004	<0.0004	<0.0004
	1/28/2009	86.45	5362.85	<0.0004	<0.0004	<0.0004	<0.0004
WW-02	4/28/2008	NM	NM	<0.0004	<0.0004	<0.0004	<0.0004
DW-03	4/25/2008	NM	NM	<0.0004	<0.0004	<0.0004	<0.0004
DW-04	4/25/2008	NM	NM	<0.0004	<0.0004	<0.0004	<0.0004

ft-bmp      feet below measuring points  
ft-msl      feet above mean sea level  
mg/L        milligrams per liter

NS          Not Sampled  
NM          Not Measured

## FIGURES





M:\clients\GARFIELD\Goad\Goad-524.dwg Layout: Layout1

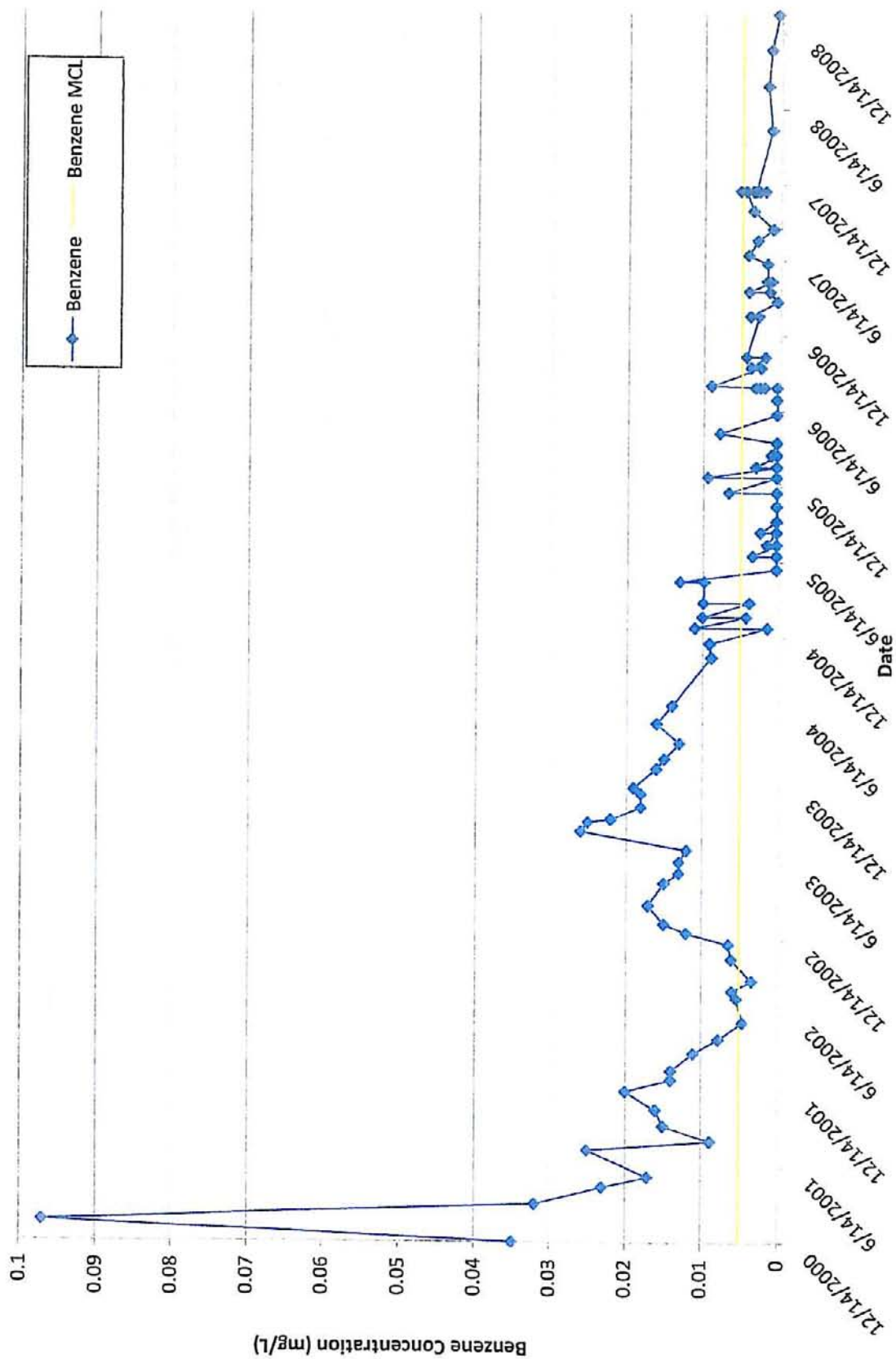
PROJECT NO: 008-2051
DRAWN BY: RJV
DATE: 4/2/09

SITE MAP  
GOAD PROPERTY  
GARFIELD COUNTY, COLORADO

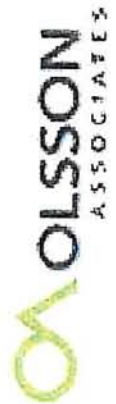
**OLSSON**  
ASSOCIATES

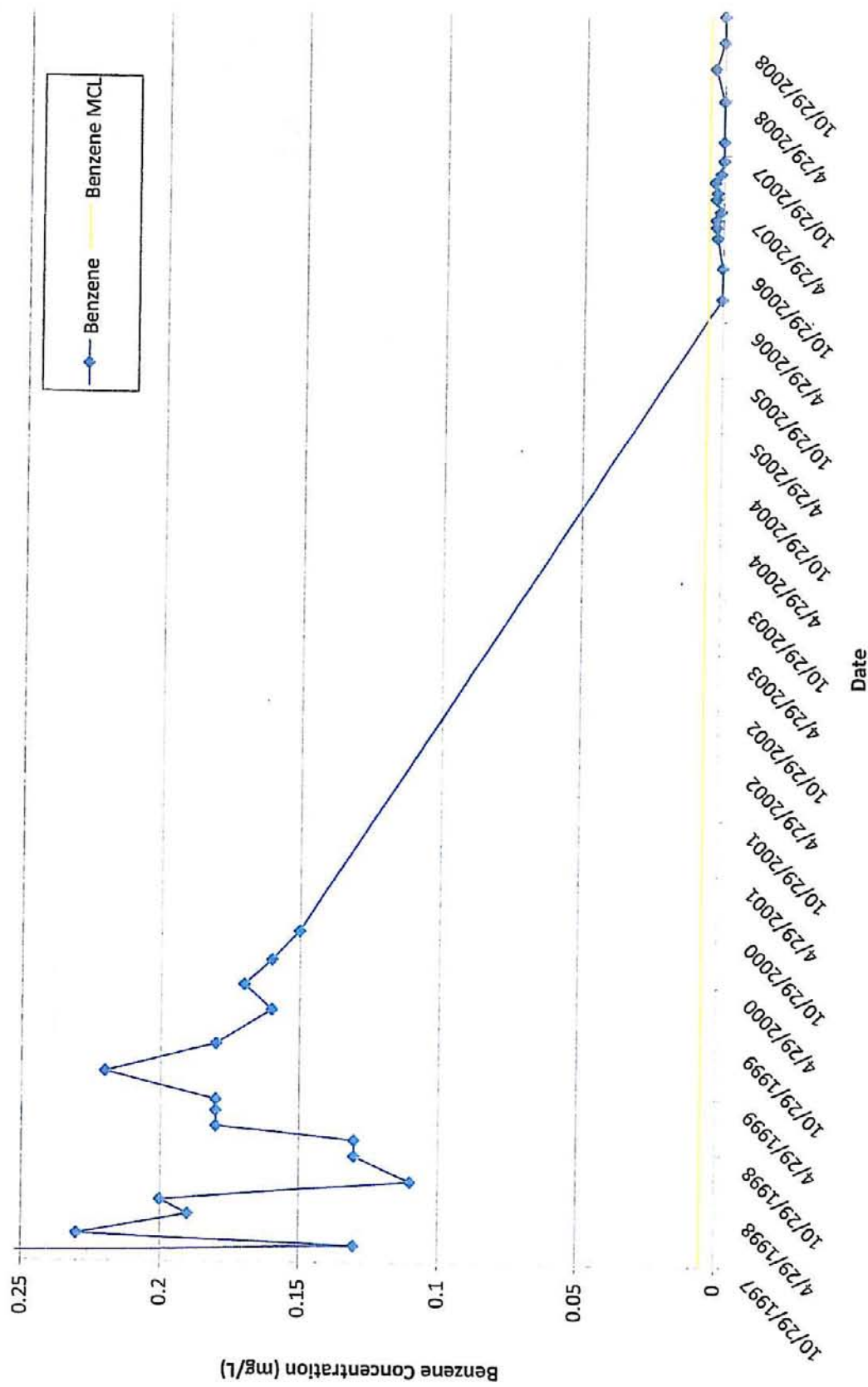
4690 Table Mountain Drive  
Suite 200  
Golden, CO 80403  
TEL 303.237.2072  
FAX 303.237.2659


FIGURE  
1



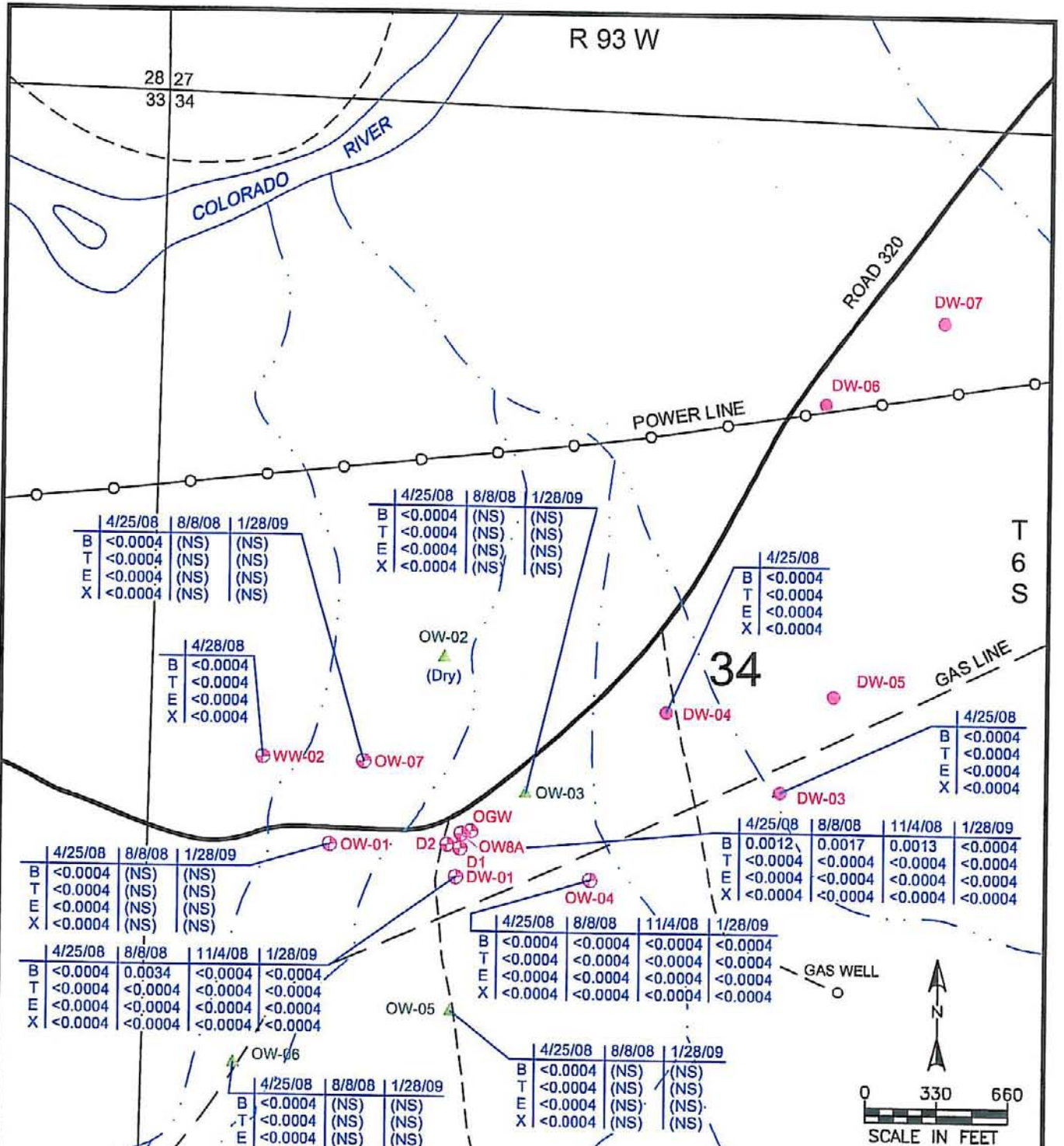
Project No: 008-2051	Benzene Concentrations  OW-08A  Goad Property, Garfield County, Colorado		4690 Table Mountain Drive Suite 200 Golden, CO 80403 TEL 303.237.2072 FAX 303.237.2659	Figure
Drawn By: JGM				2
Date: 4/3/09				





Project No: 008-2051	Benzene Concentrations  DW-01  Goad Property, Garfield County, Colorado	 <b>OLSSON</b> ASSOCIATES	4690 Table Mountain Drive Suite 200 Golden, CO 80403 TEL 303.237.2072 FAX 303.237.2659	Figure
Drawn By: JGM				
Date: 4/3/09			3	



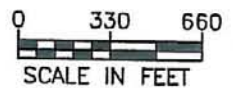


### LEGEND

- Domestic Well
- ▲ Observation Well
- ⊕ Groundwater Monitoring Well

**CHEMICAL DATA**  
(ALL VALUES ARE IN mg/L)

B = BENZENE  
T = TOLUENE  
E = ETHYLBENZENE  
X = XYLENES  
(NS) = NOT SAMPLED



PROJECT NO: 008-2051  
DRAWN BY: RJV  
DATE: 4/3/09

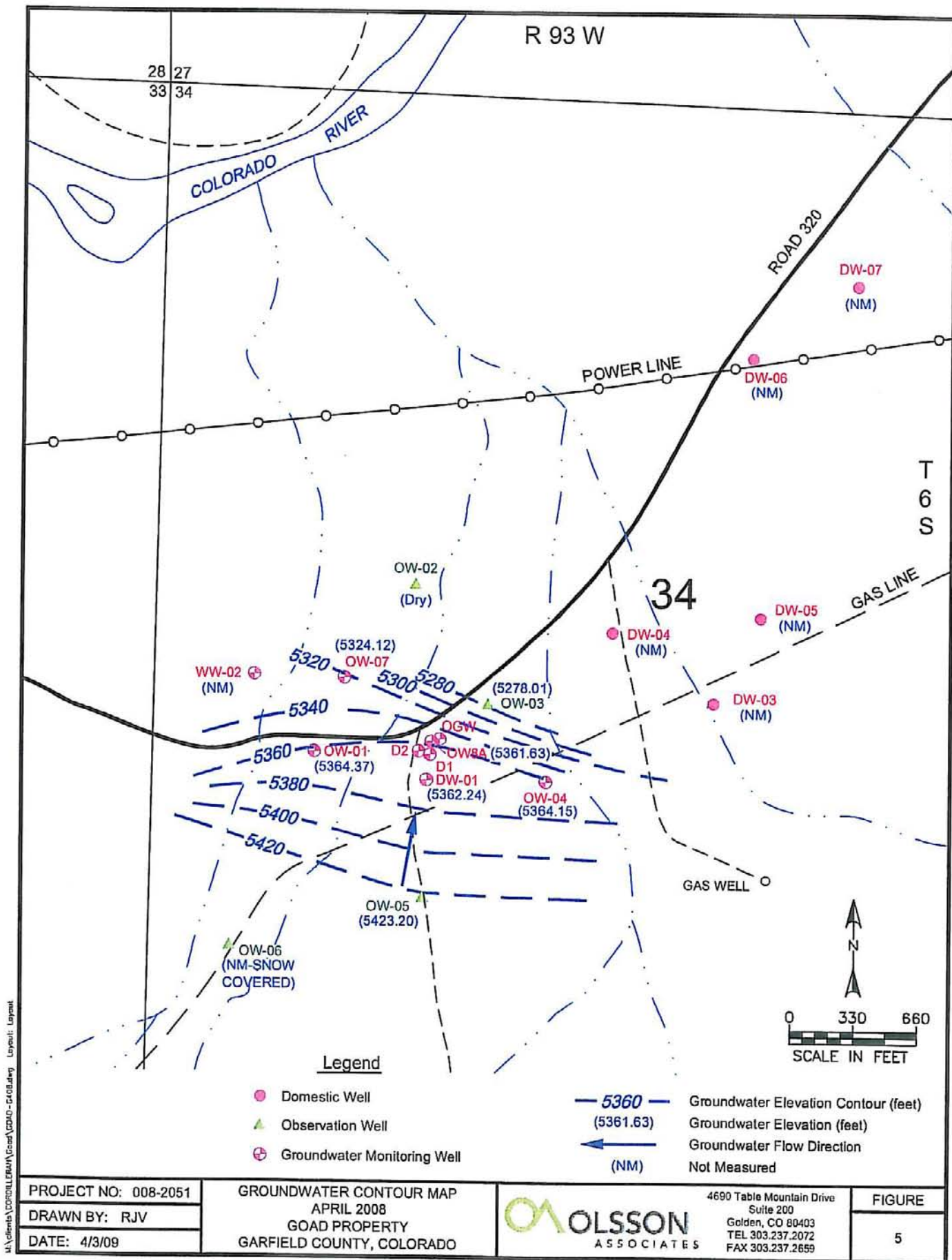
GROUNDWATER ANALYTICAL  
RESULTS MAP  
GOAD PROPERTY  
GARFIELD COUNTY, COLORADO

**OLSSON**  
ASSOCIATES

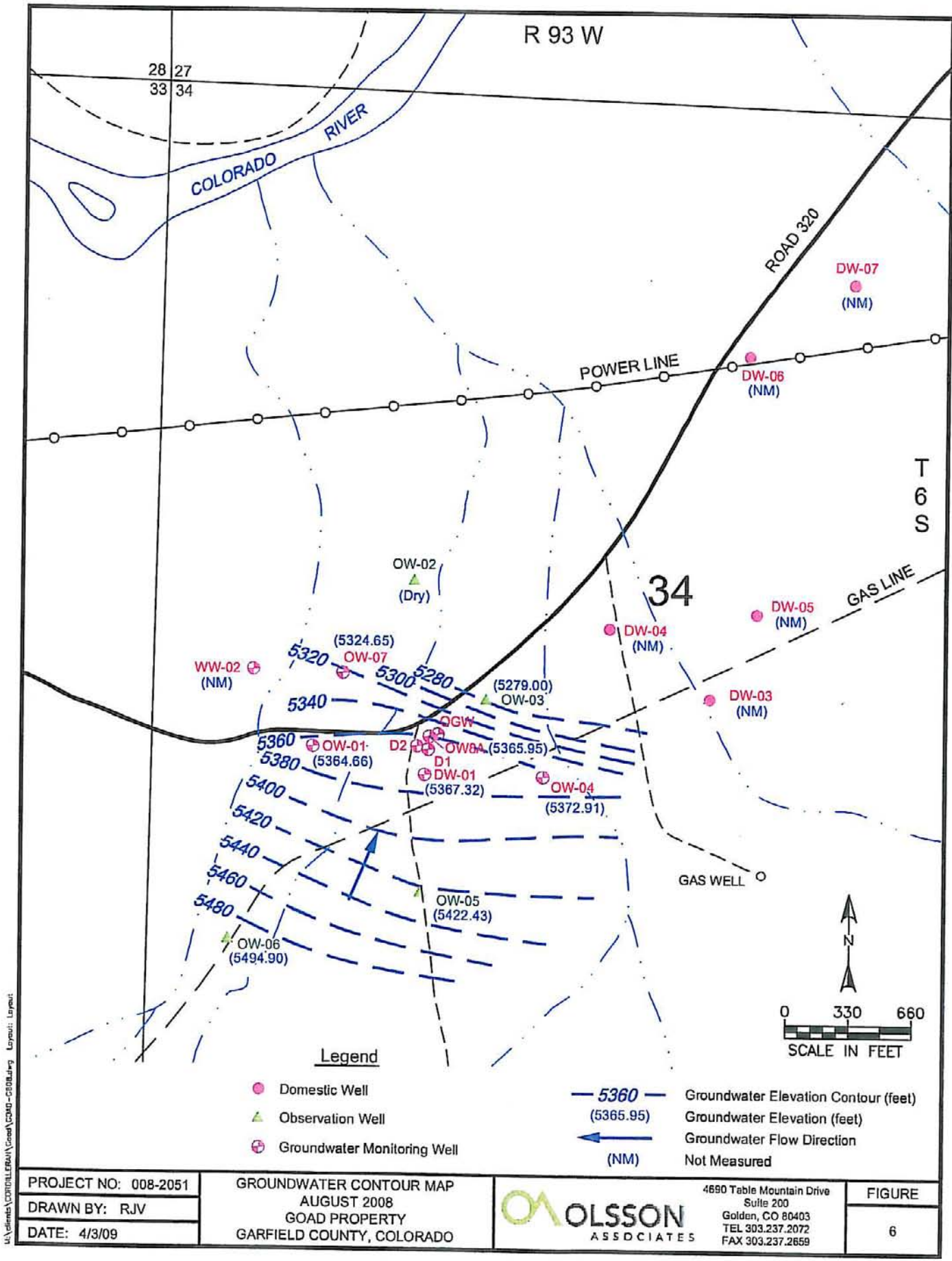
4690 Table Mountain Drive  
Suite 200  
Golden, CO 80403  
TEL 303.237.2072  
FAX 303.237.2659

FIGURE

4







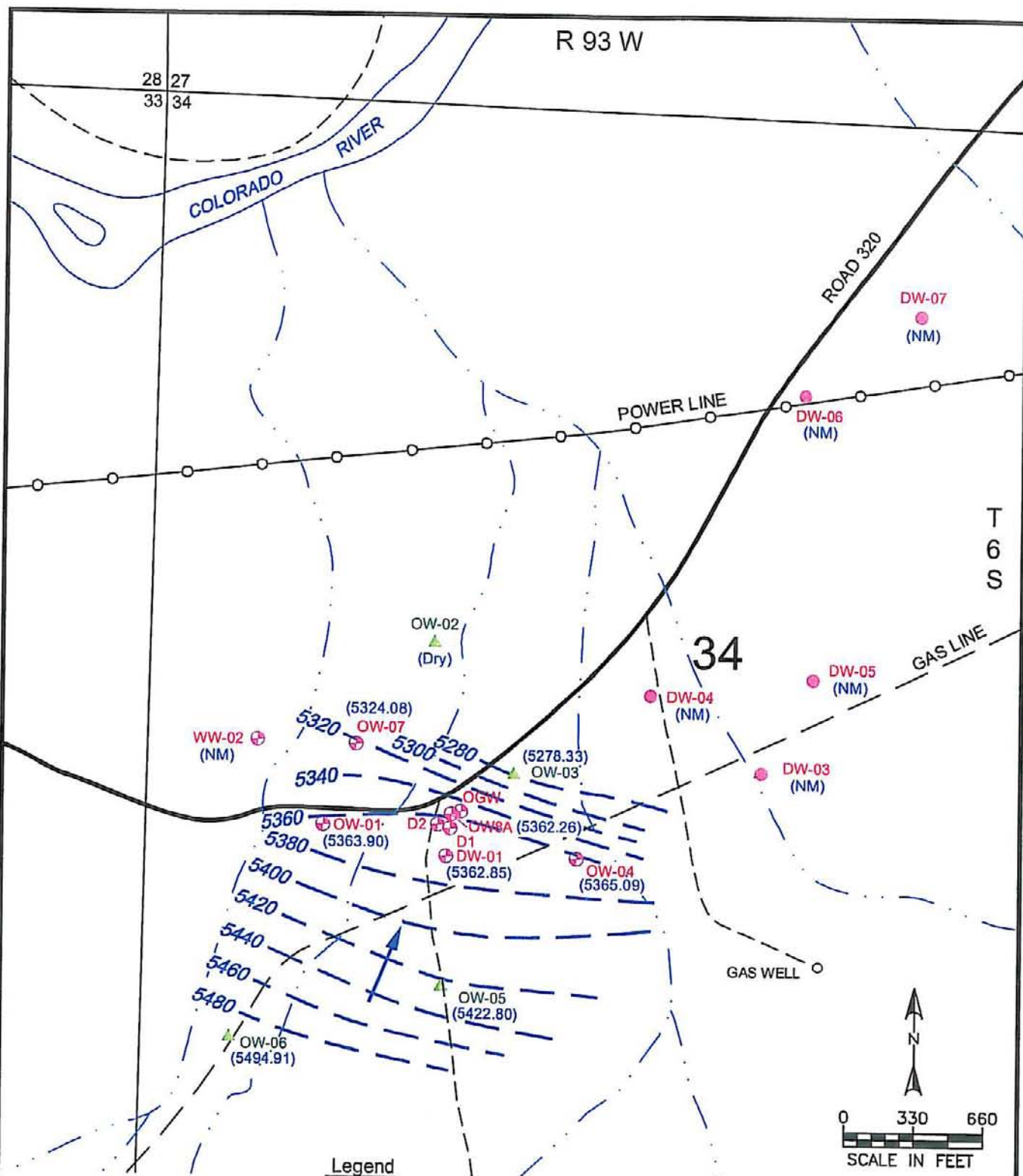
PROJECT NO: 008-2051  
 DRAWN BY: RJV  
 DATE: 4/3/09

GROUNDWATER CONTOUR MAP  
 AUGUST 2008  
 GOAD PROPERTY  
 GARFIELD COUNTY, COLORADO

**OLSSON ASSOCIATES**

4690 Table Mountain Drive  
 Suite 200  
 Golden, CO 80403  
 TEL 303.237.2072  
 FAX 303.237.2659

FIGURE  
 6



PROJECT NO: 008-2051

DRAWN BY: RJV

DATE: 4/3/09

GROUNDWATER CONTOUR MAP  
JANUARY 2009  
GOAD PROPERTY  
GARFIELD COUNTY, COLORADO

**OLSSON**  
ASSOCIATES

4690 Table Mountain Drive  
Suite 200  
Golden, CO 80403  
TEL 303.237.2072  
FAX 303.237.2659

FIGURE

7

ATTACHMENT A

Form 27





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

January 28, 2008

Chris Canfield  
Oil and Gas Conservation Commission  
53 Promontory Place  
Parachute, Colorado 81635

**Re: Goad Well Remediation Form 27  
Cordilleran Project # E0090**

Dear Mr. Canfield,

On behalf of Williams Production RMT Company (Williams), and based on meetings with Williams and yourself, Cordilleran Compliance Services (CCS) is revising the original groundwater monitoring plan for the "Goad Well" remediation project.

The following summarizes the monitoring and reporting that will be used at the project site for 2008:

- Monitoring wells OW-01, OW-02, OW-03, OW-04, OW-05, OW-06, OW-07, OW-08A, WW-02, DW-01, DW-03, and DW-04 will be sampled for water quality and water levels will be obtained one time in January 2008;
- Monitoring wells DW-01, OW-08A and OW-04 will be sampled for water quality and water levels will be obtained on a quarterly basis;
- Laboratory water quality analyses will consist of hydrocarbon analysis by Method 8021b with confirmation, and if necessary by Method 8260;
- Field water quality parameters will consist of pH, dissolved oxygen, turbidity, conductivity and total dissolved solids;
- An annual report will be prepared and submitted at the end of 2008.

Figure 1 (attached) shows the locations of the wells. The Goad well is located in Section 34, Township 6 south, Range 93 west, on the Rifle-Rulison Road 320 (Figure 1). Two air sparging wells (D1 and D2) have been operated in the vicinity of the Goad well since May 2004. In May 2005, aeration of the OW8A well was added to the two sparging wells. The sparging activities of the two wells and aeration of the OW-8A well were discontinued in August 2007.

Table 1 summarizes the analytical data that has been collected for the groundwater in the area of the Goad property. If wells OW-8A, OW-04 and DW-01 continue to show benzene levels below the state standard for the year 2008, then monitoring will be discontinued in the area. In addition, wells OW-04, OW-08A, D1, D2, DW-01, the "Old Goad Well" and the other observation wells will be abandoned in 2009. A new well for

Mr. Bob Chesson  
January 28, 2008

domestic use will be installed for Goads in 2008 following completion of the permitting process.

Assuming test analyses from DW01 continue to meet applicable primary drinking water standards for the remainder of 2008, Williams will consider the matter to be complete and request site closure.

Please call me at (303) 237-2072, if you have any questions or wish to discuss the project.

Sincerely,  
***Cordilleran Compliance Services, Inc.***

Brad Stephenson, P.G.  
Associate Hydrogeologist

Attachments

cc: Dave Cesark  
Ken Kreie  
Wendell Goad  
Project File

State of Colorado  
**Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY

**SITE INVESTIGATION AND REMEDIATION WORKPLAN**

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

Spill                      Complaint  
Inspection              NOAV

Tracking No:

**CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED**

Spill or Release    Plug & Abandon    Central Facility Closure    Site/Facility Closure    ☐ Other (describe): \_\_\_\_\_

OGCC Operator Number: 96850

Name of Operator: WILLIAMS PRODUCTION RMT COMPANY

Address: 1515 Arapahoe Street Tower 3, STE 2000

City: Denver                      State: CO    Zip: 80202

Contact Name and Telephone:

Dave Cesark

No: 970 683 2281

Fax: 970 285 9573

API Number: 05-045-07194

County: Garfield

Facility Name: BERNKLAU #RMV 108-4

Facility Number: RMV 108-4

Well Name: BERNKLAU

Well Number: \_\_\_\_\_

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NW NE, 4, 7S, 94W, 6th                      Latitude: 39.47335                      Longitude: -107.88877

**TECHNICAL CONDITIONS**

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Subsurface natural gas

**Site Conditions:** Is location within a sensitive area (according to Rule 901e)?    ☒ Y    ☐ N    If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): residential, irrigated

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Potts Loam, 3-6 % Slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water wells

**Description of Impact** (if previously provided, refer to that form or document):

Impacted Media (check):

Extent of Impact:

How Determined:

☐

Soils

☐

Vegetation

☒

Groundwater

☐

Surface Water

See attached data summary table.

Water sampling.

**REMEDIALTION WORKPLAN**

**Describe initial action taken** (if previously provided, refer to that form or document):

Please see the attached documents.

**Describe how source is to be removed:**

Please see the attached documents.

**Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:**

Please see the attached documents.



Tracking Number: \_\_\_\_\_  
Name of Operator: \_\_\_\_\_  
OGCC Operator No: \_\_\_\_\_  
Received Date: \_\_\_\_\_  
Well Name & No: \_\_\_\_\_  
Facility Name & No: \_\_\_\_\_

## REMEDIATION WORKPLAN (Cont.)

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

**Describe reclamation plan.** Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required?      Y      N      If yes, describe:

**Final disposition of E&P waste** (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

## IMPLEMENTATION SCHEDULE

Date Site Investigation Began: \_\_\_\_\_ Date Site Investigation Completed: \_\_\_\_\_ Date Remediation Plan Submitted: \_\_\_\_\_  
Remediation Start Date: \_\_\_\_\_ Anticipated Completion Date: \_\_\_\_\_ Actual Completion Date: \_\_\_\_\_

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: \_\_\_\_\_ Signed: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

OGCC Approved: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

# Attachment A

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Attachment A is the remediation plan proposed to Williams Production RMT Company In March, 2004 by Cordilleran Compliance Services, Inc. The remediation plan was implemented in May, 2004.



# **CORDILLERAN**

March 31, 2004

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

Dave Cesark  
Williams Production RMT CO  
PO Box 370  
Parachute, CO 81635

## **Re: Groundwater Treatment at the Goad Well**

Dear Dave:

Cordilleran is pleased to present this proposal to use an innovative and cost effective approach to treat impacted groundwater prior to entering the Goad drinking water well. Groundwater beneath the property has been impacted by methane and benzene. The groundwater will be treated in the hydraulic upgradient direction by the use of density driven convection (DDC) method of air sparging. The DDC method will be used to create a bubble curtain so that when groundwater moves through the curtain it will be treated by the air sparging or stripping below the ground surface or down hole prior to entering the influence of the Goad well.

This innovative groundwater sparging method has been used to remediate a wide-range of petroleum products from gasoline to waste oil in a variety of soil conditions ranging from clayey to gravelly soils. A diagram of the DDC well design is presented in Figure 1. The well will be constructed in a similar manner as a standard monitoring well using 4-inch diameter casing, except that two screened intervals (upper and lower) are separated by an annular seal. The upper screened interval is placed to straddle the water table. The uniqueness of this design is enhanced with the separated screened intervals and the annular seal which allows for a better circulation of formation water and prevention of 'short circuiting' up through the annulus of the well.

Unlike conventional groundwater sparging, DDC sparging does not attempt to push or inject pressurized air into the saturated soils surrounding the well. Instead, air is injected at the base of the water-filled wellbore of the sparge well. The injected air rises upward in the wellbore in a series of air slugs called Taylor bubbles. Exhaust air from the well is discharged to the vadose zone soils via the unwetted portion of the upper screened interval and to the atmosphere. Within the well bore, the injected air saturates the water column with air.

The aeration process creates a hydrostatic head gradient along the wellbore due to the reduction in wellbore fluid column (air/water mixture) density. The gradient drives aerated water out of the upper screen, while simultaneously drawing resident groundwater in through the lower screen. This creates a groundwater circulation cell around the sparge well. The hydraulic gradient increases with increasing air flow.

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

Typical groundwater circulation rates range from 0.5 to 50 gpm and are dependent both on aquifer conductivity and thickness.

The effective hydraulic radius of the created groundwater circulation cell is dependent upon both the aquifer thickness and the ratio of vertical to horizontal conductivity. For isotropic aquifer conditions, 90 percent of the groundwater circulation occurs within a radial distance equal to the height of the water column in the DDC well. (For the Goad system approximately 20 ft of water will be treated within the well with a radius of influence of 20 feet.) If nutrient addition is necessary, a nutrient solution may be added as a concentrated slug to the sparge well and then distributed by the induced groundwater circulation.

The system will remove the benzene and methane, which are highly volatile, by supplying oxygen to promote air stripping within the well and to promote natural aerobic processes. Oxygen will be supplied to the saturated subsurface by circulation of the aerated (oxygenated) water. Oxygen is supplied to the vadose zone by discharge of the exhaust air. The dissolved volatile organic compounds (benzene and methane) are also transferred from the saturated zone to the vadose zone where they are biodegraded concurrently with any existing vadose zone contamination. In most cases, this eliminates the need for surface emission controls by using the vadose zone soils as an in-situ biofilter. Depending on the amount of pumping from the Goad well, it is anticipated for this site the water in the area of the Goad well will be reduced to drinking water standards within 100 days and to the lower detection limit within a year. The Goad well should continue to be utilized and existing treatment should continue until groundwater quality in the area has improved to drinking water standard.

In summary, the system has several advantages over conventional air sparging as follows:

- The method is suitable for use in fine-grained and heterogeneous aquifers;
- The zone of treatment is uniform with depth;
- Vadose zone vapor recovery and surface treatment systems are not needed, hence less capital and O&M costs;
- The system can be utilized to circulate biological nutrients as well as oxygen within the subsurface; and
- The system performance can be readily evaluated using single-phase analytical and numerical models.

The proposed array for the Goad remediation will involve the installation two DDC wells to a depth of 145 ft-bgs or about 20 to 25 ft below the top of the water table. Both wells will be installed approximately 25 to 30 ft in the upgradient direction from the Goad well with about 20 to 25 feet of separation (Figure 2). Drilling and well installation will be performed by Shelton Drilling, Basalt, CO, who has drilled in the area. The driller will supply all well materials. Cordilleran will be responsible for utility clearances and for overseeing well installation activities. The wells will be logged by Cordilleran personnel, but no soil samples will be collected during installation. It is anticipated that the potential exposure is minimal and modified OSHA Level D personal protection equipment would

be adequate for all working conditions. Drill cuttings, purge and decontamination materials and water will be treated as non-hazardous. Pressurized air for both systems will be supplied by blowers housed in enclosures on or near the wells. Cordilleran will provide the enclosures, blowers and gauges required for the project. It is anticipated at this time that adequate 220 volt power is located on site.

To test the effectiveness of the remediation systems, four air samples and six groundwater samples will be obtained from the DDC wells and the Goad well over a three month period. An initial air sample would be obtained from one of the wells immediately following startup of the system and at one month intervals for three months. Initial groundwater samples would be collected from both wells and the Goad well prior to startup of the system and from the Goad well at one month intervals for three months. Following three months of operation and monitoring, Cordilleran will analyze the data collected and provide a preliminary report that details well and system installation and effectiveness and any recommendations, if necessary. After one year of operation, the Goad well will be sampled and an air sample will be acquired from one of the DDC wells. This data will be used to determine the amount of time that will be needed to continue using or not using the DDC system. An annual report will be submitted that details the effectiveness of the system.

The total cost for the services outlined above should not exceed \$42,000 and includes drilling and well installations, system installations and equipment, sampling, laboratory analysis and reporting. All costs are based on easy access to the site and moderate weather conditions. A table summarizing costs is attached.

Our services consist of professional opinions and recommendations made in accordance with generally accepted geotechnical and environmental engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied.

Should you have any questions, please do not hesitate to contact us.

Sincerely,

***Cordilleran Compliance Services, Inc.***

Brad Stephenson  
Senior Hydrogeologist

Dion Plsek  
Associate Engineer

Attachments



# Attachment B

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Attachment B consists of the Annual reports (both 2006 and 2007) submitted to the COGCC by Cordilleran Compliance Services, Inc. detailing remediation activities and water quality results. These reports also include location maps for well location reference.



# CORDILLERAN

August 13, 2006

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

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

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.

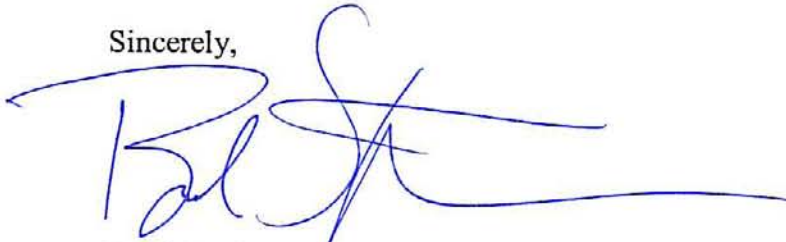
The conditions of the well permit allow for 1 acre-foot/year or about 325,000 gallons of water to be used from this well for beneficial use. I anticipate that a maximum of 225,000 gallons will be used on the pasture for the remainder of the year. The current remediation system will continue to be used 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,

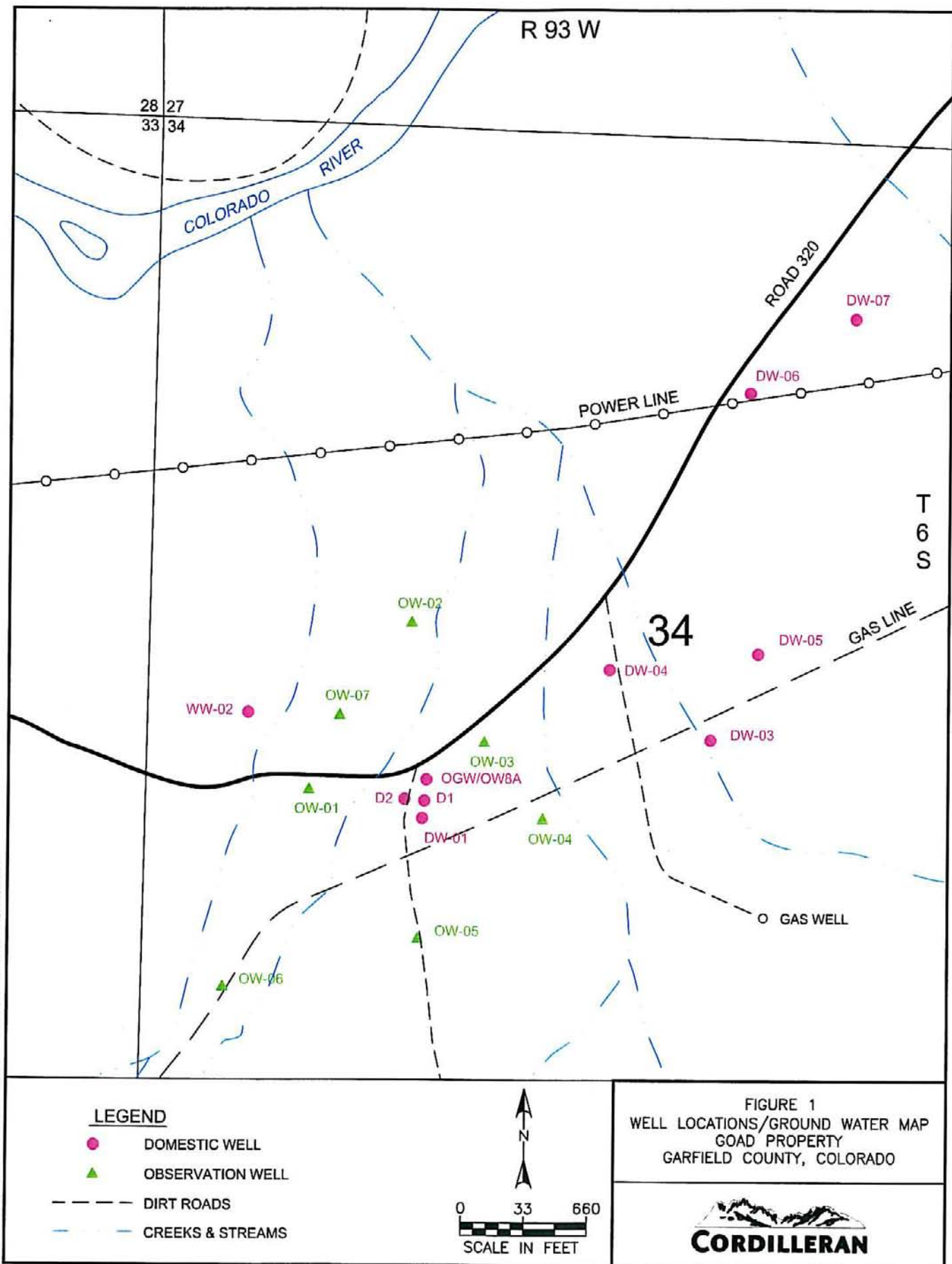


Brad Stephenson  
Senior Hydrogeologist  
***Cordilleran Compliance Services, Inc.***

Attachments

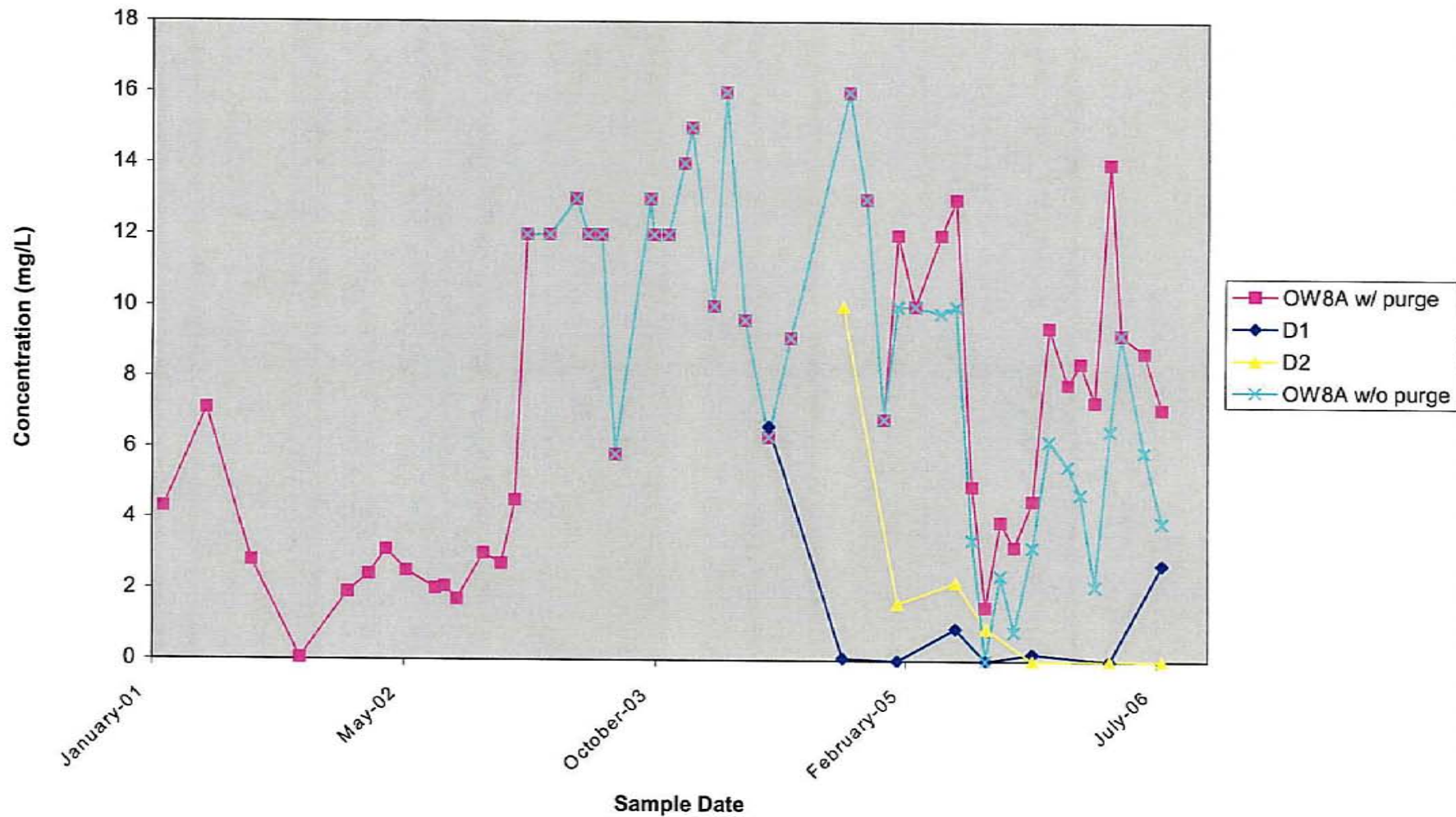
Cc: Dave Cesark  
Ken Kreie  
Project File

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

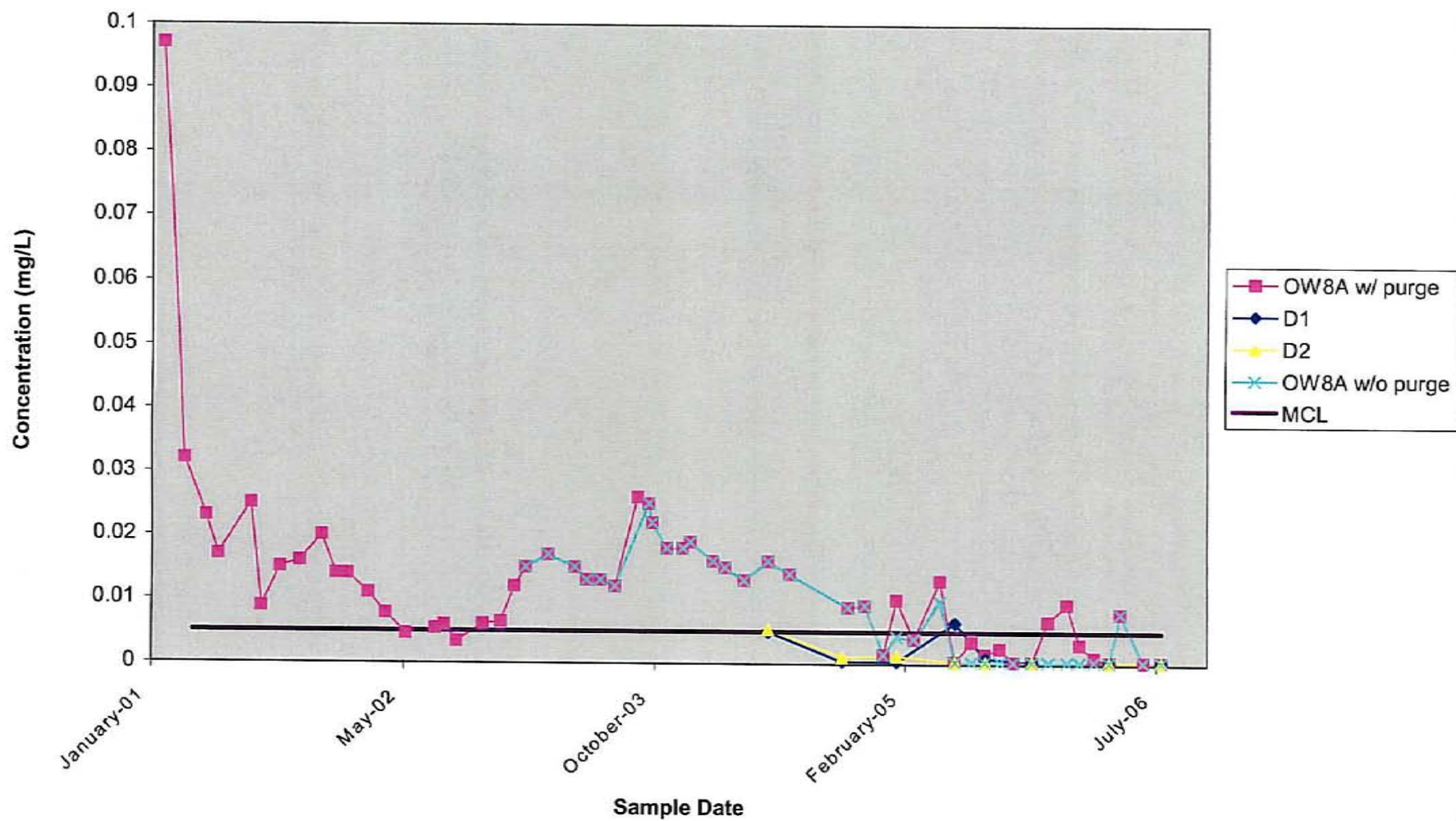


TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE IN WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUENE IN WATER (mg/l)	E.BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
LABORATORY DETECTION LIMITS		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS		NA	0.005	1	0.66	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	0.0056	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	0.0051	0.003	ND	ND	ND	ND	
	1/19/1999	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	1.75	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	
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	0.92	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	
	7/18/2003	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 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	
LABORATORY DETECTION LIMITS		(mg/l) 0.0012	(mg/l) 0.0004	(mg/l) 0.0004	(mg/l) 0.0004	(mg/l) 0.0004	(mg/l) 0.1	
DRINKING WATER STANDARDS		NA	0.005	1	0.68	10	NA	
OW-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	
	1/10/2002	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	
	9/6/2002	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	6.4	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)	
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-08B	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	
	5/28/2002	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	0.00077	ND	ND	ND	ND	ND	
	7/12/2006	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)	
<b>LABORTORY DETECTION LIMITS</b>		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
<b>DRINKING WATER STANDARDS</b>		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	0.0051	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	0.0025	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	0.154	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 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-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	0.019	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)	
<b>LABORATORY DETECTION LIMITS</b>		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
<b>DRINKING WATER STANDARDS</b>		NA	0.005	1	0.08	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	0.15	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	
VW-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	10/14/1998	0.0014	ND	ND	ND	ND	NT	
	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 WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUENE IN WATER (mg/l)	E. BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
<b>LABORATORY DETECTION LIMITS</b>		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
<b>DRINKING WATER STANDARDS</b>		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 undiluted samples.								



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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	0.0989	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	0.0056	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	
	10/23/2006	0.095	ND	ND	ND	ND	NT	20 gallons purged
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	0.0051	0.003	ND	ND	ND	ND	
	1/19/1999	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	1.75	ND	ND	ND	ND	ND	



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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	0.92	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
	10/23/2006	0.36	0.0018	ND	ND	ND	ND	
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	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUNE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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-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	
	7/18/2003	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	
	7/18/2006	ND	ND	ND	ND	ND	ND	



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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-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	
	1/10/2002	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	
	9/6/2002	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 Hour 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

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUNE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
<b>LABORTORY DETECTION LIMITS</b>		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
<b>DRINKING WATER STANDARDS</b>		NA	0.005	1	0.68	10	NA	
	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
	8/10/2006	10	ND	ND	ND	ND	ND	prior to start
	8/10/2006	10	0.002	ND	ND	ND	ND	10 min after start
	8/10/2006	3	ND	ND	ND	ND	ND	spray 10 min after start
	8/10/2006	7.3	0.0026	ND	ND	ND	ND	100 min after start
	8/10/2006	0.13	ND	ND	ND	ND	ND	spray 100 min after start
	8/10/2006	8.4	0.0032	ND	ND	ND	ND	200 min after start
	8/10/2006	0.12	ND	ND	ND	ND	ND	spray 100 min after start
	8/10/2006	0.058	ND	ND	ND	ND	ND	500 min after start
	8/10/2006	6.7	ND	ND	ND	ND	ND	spray 500 min after start
	8/14/2006	13	0.009	0.0037	ND	ND	ND	no purge
	9/27/2006	13	0.0025	ND	ND	ND	ND	no purge
	9/27/2006	9.3	0.0038	ND	ND	ND	ND	1 Hour Purge
	10/23/2006	5.1	0.0019	ND	ND	ND	ND	no purge
	10/23/2006	6.8	0.0044	ND	ND	ND	ND	1 Hour Purge

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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-08B	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	
	5/28/2002	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	
	10/23/2006	0.063	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	0.00077	ND	ND	ND	ND	ND	
	7/12/2006	ND	ND	ND	ND	ND	ND	
	10/23/2006	0.098	ND	ND	ND	ND	ND	



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUNE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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	0.0083	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	0.0051	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	0.0025	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	
	7/18/2006		ND	ND	ND	ND	ND	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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-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	0.154	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	
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	0.019	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 (ma/l)	BENZENE (ma/l)	TOLUNE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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	0.15	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	
	10/14/1998	0.0014	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 (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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 undiluted samples.								

Table 2 - Summary of Pump Test Data for Goad Well

Date	time (min)	WLS	Total Gallons Pumped	OW 8 wls	OW8A Drawdown (ft)	D1 wls	D1 Drawdown (ft)	D2 wls	D2 Drawdown (ft)	time (min)	Methane (mg/L)	Benzene (mg/L)	Comments
8/10/2006	0		0	-82.96	0.00	-83.25	0.00	-83.90	0.00	0	10	0.0005	prior to start
8/10/2006	1		7.5	-88.05	5.09					10	10	0.002	10 min after start
8/10/2006	10		75	-87.30	4.34	-84.70	1.45	-85.80	1.90	10	3	0.0005	spray 10 min after start
8/10/2006	20		150	-88.20	5.24	-85.20	1.95	-85.80	1.90	100	7.3	0.0026	100 min after start
8/10/2006	30		225	-89.10	6.14					100	0.13	0.0005	spray 100 min after start
8/10/2006	50		375	-89.20	6.24					200	8.4	0.0032	200 min after start
8/10/2006	100		750	-89.75	6.79	-85.85	2.60	-86.50	2.60	200	0.12	0.0005	spray 100 min after start
8/10/2006	200		1500	-95.00	12.04	-86.91	3.66	-87.74	3.84	500	0.058	0.0005	500 min after start
8/10/2006	500		3750	-95.80	12.84	-87.45	4.20	-88.35	4.45	500	6.7	0.0005	spray 500 min after start
8/14/2006	End Pump Test												
	35060			-83.01	0.00	-83.32	0.00	-84.02	0.00	35060	13	0.009	no purge



5550 Marshall Street  
Arvada, CO 80002  
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May 29, 2007

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

**Re: Goad Well Remediation Status Report  
Cordilleran Project # E0090**

Dear Mr. Chesson,

On behalf of Williams Production RMT Company (Williams), Cordilleran Compliance Services (CCS) is submitting this letter to summarize the following:

- the results of the remediation efforts for the Goad well for 2006,
- the results of the pumping test of OW8A in August 2006,
- and the proposed sampling and remediation plan for the site in 2007.

The Goad well is located in Section 34, Township 6 south, Range 93 west, on the Rifle-Rulison Road 320 (Figure 1). Two air sparging wells (D1 and D2) have been operated in the vicinity of the Goad well since May 2004. In May 2005, aeration of the OW8A well was added to the two sparging wells. The two sparging wells have operated continuously except during the months of January 2006 and February 2006 when cold temperatures froze the condensation in the air lines. The aeration of the OW8A well continued throughout 2006.

Figure 1 shows the locations of the wells. Table 1 summarizes the analytical 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 two sparging wells. Table 2 summarizes the results of the pumping test. Figure 4 shows the results of the pumping test and associated benzene concentrations.

In 2006, Well OW8A benzene was not detected above the EPA's maximum contaminant level (MCL) of 0.005 milligrams/Liter (mg/L), except in January 2006 and four days after the end of the pump test. A concentration of 0.009 mg/L was found in the well on both occasions. No detections of benzene above the laboratory detection limit (LDL) of 0.0004 mg/L were reported in samples from sparging wells D1 and D2 since October 2005. Benzene concentrations did not exceed the LDL in other area monitoring wells and water wells near the Goad property, except for one low level detection of 0.0025 mg/L in Well OW04 in 2006 (Table 1).

An eight-hour pumping test of the OW8A well was conducted on August 10, 2006. The purpose of this test was to monitor the benzene concentrations in the produced ground water over time. Prior to, during and after the pumping test, groundwater levels were measured and groundwater samples were collected at selected time intervals. The groundwater was pumped to a sprinkler which distributed the water onto the Goad back pasture. Water samples were obtained from the well and from the spray created by the sprinkler at intervals of 0 minutes (min), 10 min, 100 min, 200 min and 500 min. A water sample from the well was also obtained four days following the end of the test. Groundwater levels were also measured at similar intervals from wells OW8A, D1 and D2.

The pumping test of OW8A showed drawdown effects in the well and in the immediate area of the well (Table 2). The result of the test showed that after 500 minutes of pumping, the groundwater level in OW8A well was drawn down to a maximum of 12.84 feet (ft) below the static water level after removing 3,750 gallons from the well. The effects of the pumping showed a maximum drawdown of 4.20 ft in Well D1 (15 ft away upgradient) and 4.45 ft in Well D2 (15 ft away upgradient) (Table 2) at 500 min, indicating a radius of influence of at least 15 feet. Pumping of Well OW8A at a rate of 7.5 gallons per minute (gpm) created a drawdown of approximately 5.0 ft within 10 minutes after startup of the test. After 200 min of constant pumping, a maximum drawdown of approximately 12 ft below static water level was observed in the well, which was maintained until the end of the test at 500 minutes.

The analytical results of the samples obtained from the well and the water spray during the test showed no detections of benzene above the MCL (Table 2). During the test, the water samples showed detections of benzene above the LDL with a maximum concentration of 0.0032 mg/L at 200 min. At four days after the test, the analytical results showed a detection of benzene slightly above the MCL at 0.009 mg/L. Since this time, there have been no detections of benzene above the LDL (Table 1).

CCS recommends that the OW8A well be pumped to irrigate the back pasture on the Goad property as the water can be put to beneficial use and remediation of the groundwater in the subsurface will be aided by increasing groundwater flow to the well. The results of the OW8A well pumping demonstrate that benzene concentrations in the groundwater produced remained below the MCL in the well for eight hours, and as such present little to no risk, as any benzene present will be readily volatilized during spray irrigation. The permitted water rights stipulated for this well allow for 1 acre-foot/year or about 325,000 gallons of water to be used from this well for beneficial use. CCS estimates that a maximum of 225,000 gallons will be used for irrigating the pasture for the remainder of 2007.

The air sparging system will continue to be operated until July 2007 and seasonal irrigation practices will continue to the end of the summer season. The wells in the area will continue to be monitored for benzene, toluene, ethylbenzene, total xylenes (BTEX) and total dissolved methane for the remainder of the year. If a concentration of benzene is detected above the MCL in samples from wells OW8A or DW01 collected during

2007, then the systems will be restarted and operated for an additional six months. Groundwater monitoring will continue for an additional 6 months following shut down of the systems.

The proposed groundwater monitoring plan for 2007 includes the following:

- Sampling of wells OW01, OW07, WW02 on an annual basis in July;
- Sampling of wells D1, and D2 and on a quarterly basis;
- Sampling of wells OW04, OW8A, and DW01 on a monthly basis;
- Analyzing all samples for BTEX and dissolved methane; and
- Summarizing the 2007 results and remediation activities in a report to the COGCC to be submitted by January 2008.

Assuming test analyses from DW01 continue to meet applicable primary drinking water standards for the remainder of 2007, Williams will take the final actions required pursuant to the Settlement and Mutual Release Agreement dated March 23, 2000 between Barrett Resources Corporation (aka Williams) and the Goad's, which will include the following:

- Transfer of ownership in the DW01, OW8A and OW04 wells to the Goad's if the Goads desire to own the wells and the COGCC deems the wells unnecessary or to otherwise plug the wells;
- Transfer ownership of the filtration system for the DW-01 well if the Goad's desire to own the filtration system or remove it if they do not; and
- Restore and remediate any surface locations on the Goad's property which were utilized for these operations.

After completion of these actions, Williams will have fully performed all required actions pursuant to the Settlement Agreement and will consider the matter to be complete.

Please call me at (303) 237-2072, if you have any questions or wish to discuss the project.

Sincerely,  
***Cordilleran Compliance Services, Inc.***

Brad Stephenson, P.G.  
Senior Associate Hydrogeologist

Attachments

cc: Dave Cesark  
Ken Kreie  
Wendell Goad  
Project File



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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	0.0989	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	0.0056	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	
	10/23/2006	0.095	ND	ND	ND	ND	NT	20 gallons purged
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	0.0051	0.003	ND	ND	ND	ND	
	1/19/1999	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	1.75	ND	ND	ND	ND	ND	



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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	0.92	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
	10/23/2006	0.36	0.0018	ND	ND	ND	ND	
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	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUNE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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-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	
	7/18/2003	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	
	7/18/2006	ND	ND	ND	ND	ND	ND	



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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-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	
	1/10/2002	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	
	9/6/2002	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 Hour 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

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUNE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
<b>LABORTORY DETECTION LIMITS</b>		0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
<b>DRINKING WATER STANDARDS</b>		NA	0.005	1	0.68	10	NA	
	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
	8/10/2006	10	ND	ND	ND	ND	ND	prior to start
	8/10/2006	10	0.002	ND	ND	ND	ND	10 min after start
	8/10/2006	3	ND	ND	ND	ND	ND	spray 10 min after start
	8/10/2006	7.3	0.0026	ND	ND	ND	ND	100 min after start
	8/10/2006	0.13	ND	ND	ND	ND	ND	spray 100 min after start
	8/10/2006	8.4	0.0032	ND	ND	ND	ND	200 min after start
	8/10/2006	0.12	ND	ND	ND	ND	ND	spray 100 min after start
	8/10/2006	0.058	ND	ND	ND	ND	ND	500 min after start
	8/10/2006	6.7	ND	ND	ND	ND	ND	spray 500 min after start
	8/14/2006	13	0.009	0.0037	ND	ND	ND	no purge
	9/27/2006	13	0.0025	ND	ND	ND	ND	no purge
	9/27/2006	9.3	0.0038	ND	ND	ND	ND	1 Hour Purge
	10/23/2006	5.1	0.0019	ND	ND	ND	ND	no purge
	10/23/2006	6.8	0.0044	ND	ND	ND	ND	1 Hour Purge

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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-08B	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	
	5/28/2002	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	
	10/23/2006	0.063	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	0.00077	ND	ND	ND	ND	ND	
	7/12/2006	ND	ND	ND	ND	ND	ND	
	10/23/2006	0.098	ND	ND	ND	ND	ND	



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUNE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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	0.0083	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	0.0051	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	0.0025	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	
	7/18/2006		ND	ND	ND	ND	ND	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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-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	0.154	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	
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	0.019	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 (ma/l)	BENZENE (ma/l)	TOLUNE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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	0.15	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	
	10/14/1998	0.0014	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	

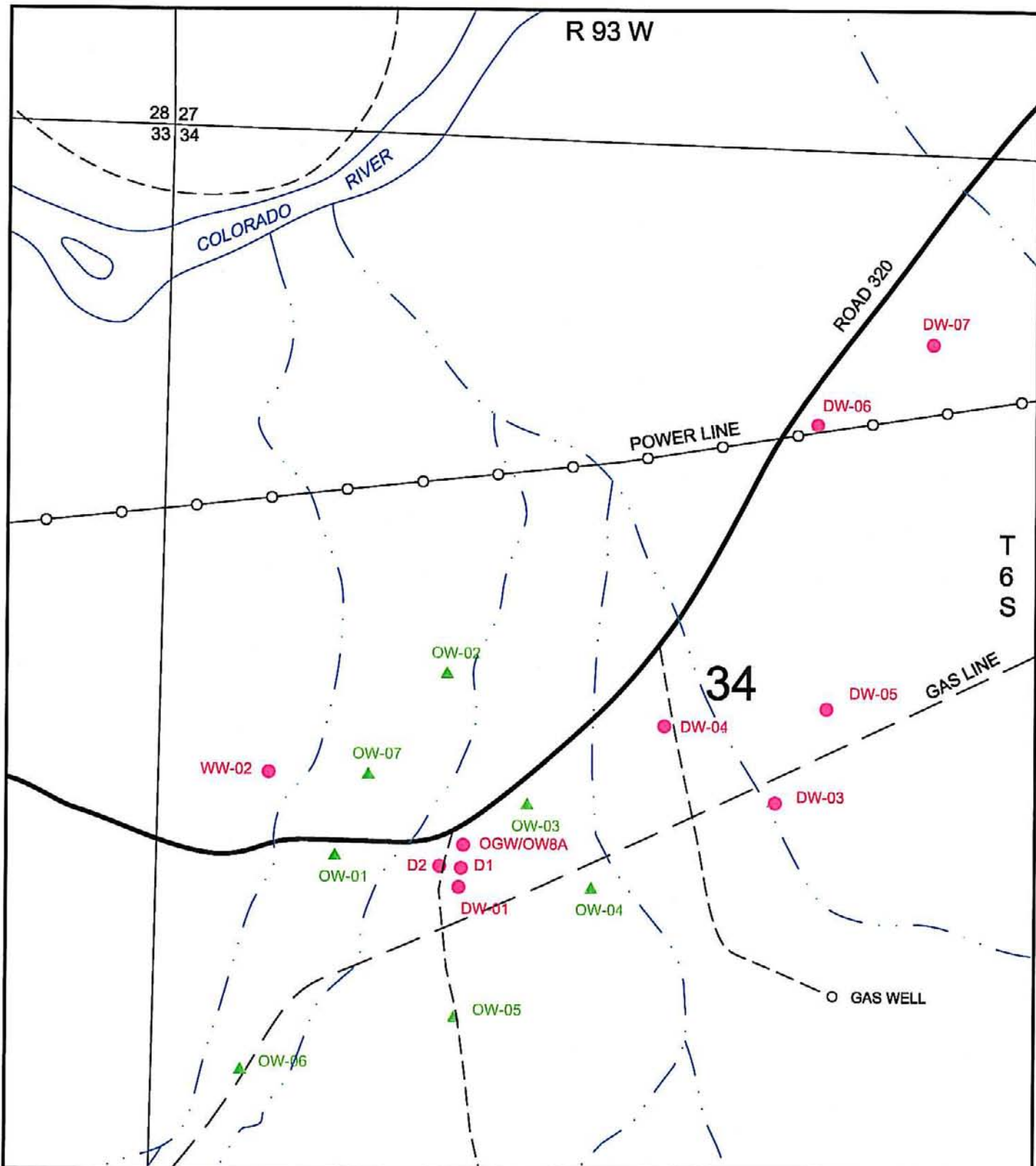
TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORATORY RESULTS SUMMARY

LOCATION	DATE	METHANE (ma/l)	BENZENE (ma/l)	TOLUENE (ma/l)	E.BENZENE (ma/l)	XYLENE (ma/l)	TVPH (ma/l)	Comments
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 undiluted samples.								

Table 2 - Summary of Pump Test Data for Goad Well

Date	time (min)	WLS	Total Gallons Pumped	OW 8 w/s	OW8A Drawdown (ft)	D1 w/s	D1 Drawdown (ft)	D2 w/s	D2 Drawdown (ft)	time (min)	Methane (mg/L)	Benzene (mg/L)	Comments
8/10/2006	0		0	-82.96	0.00	-83.25	0.00	-83.90	0.00	0	10	0.0005	prior to start
8/10/2006	1		7.5	-88.05	5.09					10	10	0.002	10 min after start
8/10/2006	10		75	-87.30	4.34	-84.70	1.45	-85.80	1.90	10	3	0.0005	spray 10 min after start
8/10/2006	20		150	-88.20	5.24	-85.20	1.95	-85.80	1.90	100	7.3	0.0026	100 min after start
8/10/2006	30		225	-89.10	6.14					100	0.13	0.0005	spray 100 min after start
8/10/2006	50		375	-89.20	6.24					200	8.4	0.0032	200 min after start
8/10/2006	100		750	-89.75	6.79	-85.85	2.60	-86.50	2.60	200	0.12	0.0005	spray 100 min after start
8/10/2006	200		1500	-95.00	12.04	-86.91	3.66	-87.74	3.84	500	0.058	0.0005	500 min after start
8/10/2006	500		3750	-95.80	12.84	-87.45	4.20	-88.35	4.45	500	6.7	0.0005	spray 500 min after start
8/14/2006	End Pump Test												
	35060			-83.01	0.00	-83.32	0.00	-84.02	0.00	35060	13	0.009	no purge





# **LEGEND**

- DOMESTIC WELL
- ▲ OBSERVATION WELL
- DIRT ROADS
- - - CREEKS & STREAMS

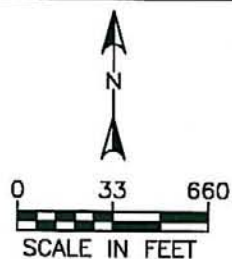
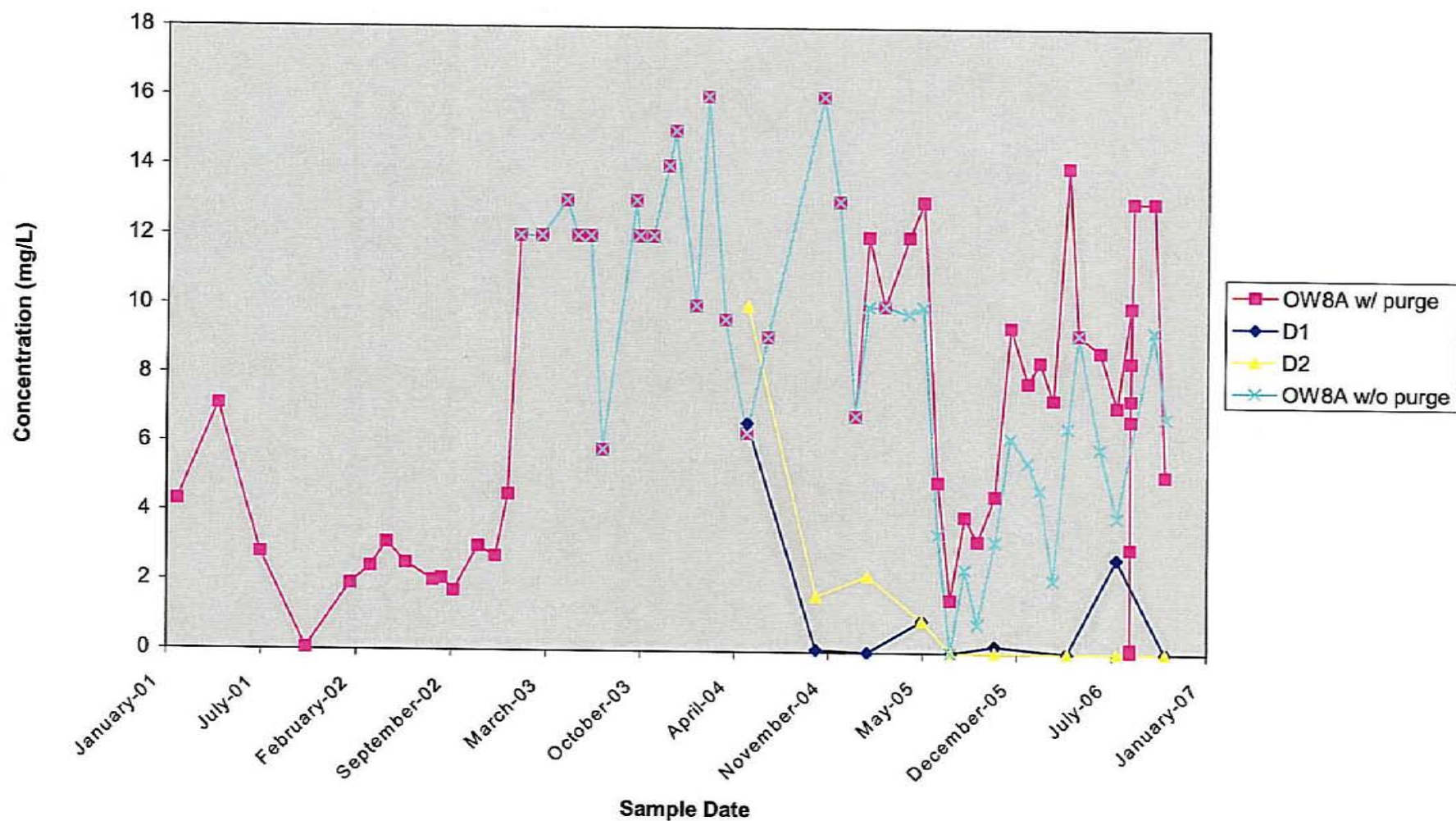


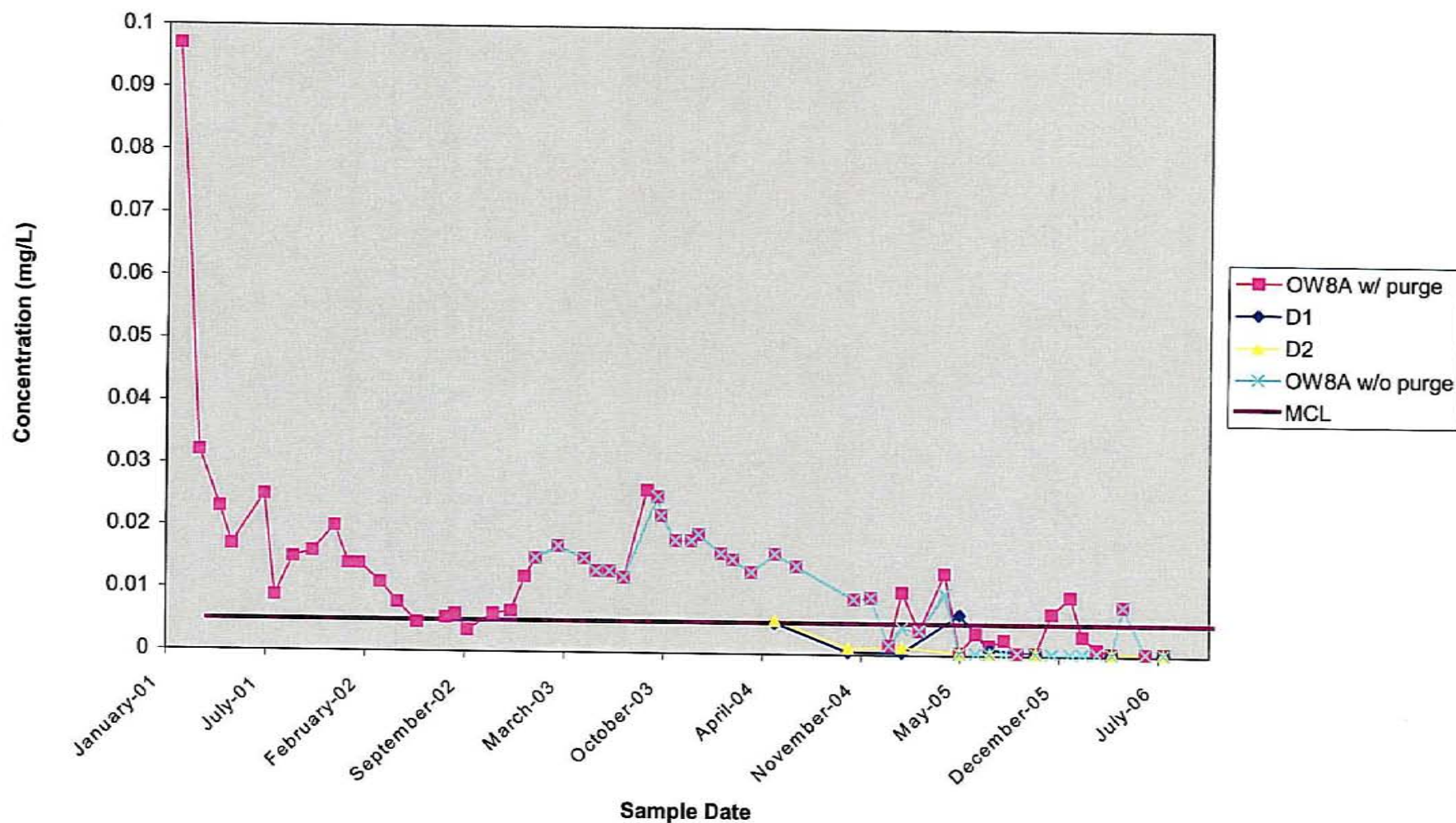
FIGURE 1  
WELL LOCATIONS/GROUND WATER MAP  
GOAD PROPERTY  
GARFIELD COUNTY, COLORADO



**Goad Well Remediation  
Historical Methane Concentrations  
Figure 2**



**Goad Well Remediation**  
**Historical Benzene Concentrations**  
Figure 3



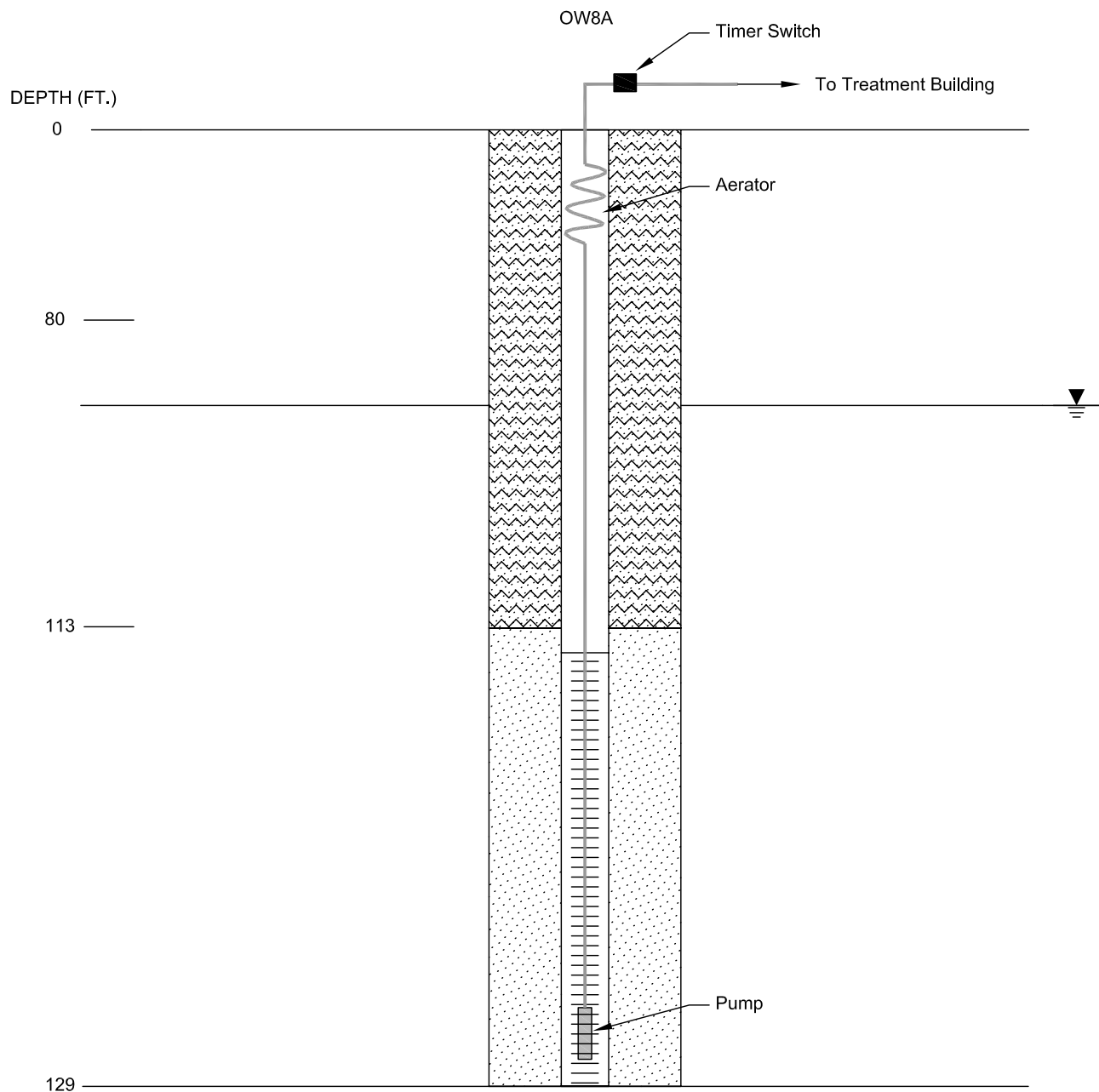
# Attachment C

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Attachment C consists of figures (2) which detail the construction of the remediation sparge wells, D1 and D2, and observation well, OW-08.







NOT TO SCALE

FIGURE 4  
REMEDATION WELL SCHEMATIC  
GOAD PROPERTY



# Attachment D

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Attachment D consists of the most recent data table which details all water sample laboratory results to date.

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	SAMPLE COLLECTOR	COMBUSTIBLE GAS CONCEN. AT WELLHEAD % LEL	METHANE IN SMPL HEADSPACE (ppm)	DO (mg/L)	TURBIDITY (Ntu)	pH	CONDUCTIVITY (uS)	TOTAL DISSOLVED SOLIDS (ma/L)	METHANE IN WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUNE IN WATER (mg/l)	E.BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
LABORTORY DETECTION LIMITS			NA	NA	NA	NA	NA	NA	NA	0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS			NA	NA	NA	NA	6.5-8.5*	NA	500*	NA	0.005	1	0.68	10	NA	
OW-01	12/17/1997	MAXXIM	4	NT	1.44	NT	7.73	738	578	3.6	0.033	0.00062	ND	0.00157	0.11	
	1/6/1998	MAXXIM	ND	NT	NT	NT	NT	NT	NT	3.1	0.019	0.00089	ND	0.01265	0.18	
	2/13/1998	MAXXIM	9	NT	2.2	NT	7.52	941	NT	2.7	0.013	0.0011	ND	0.00947	ND	
	3/17/1998	MAXXIM	3	NT	1.96	NT	7.42	834	NT	2.2	0.011	ND	ND	0.0049	ND	
	4/14/1998	MAXXIM	3	NT	2.17	NT	7.24	863	NT	3.6	0.011	ND	ND	0.0049	ND	
	5/12/1998	MAXXIM	NT	NT	NT	NT	7.38	879	NT	3.5	0.0094	ND	ND	0.0041	0.12	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.88	812	NT	2	0.0081	ND	ND	ND	ND	
	10/13/1998	MAXXIM	ND	NT	NT	NT	7.26	835	NT	0.35	0.0045	ND	ND	ND	ND	
	1/18/1999	MAXXIM	NT	NT	NT	NT	6.52	836	NT	0.39	0.0023	ND	ND	ND	ND	
	4/15/1999	TERRACON	2	NT	1.24	NT	6.66	805	NT	0.0034	0.0021	ND	ND	ND	ND	
	7/14/1999	TERRACON	5	NT	1.09	NT	NT	800	NT	ND	0.0011	ND	ND	ND	ND	
	10/14/99	TERRACON	ND	NT	2.29	NT	7.33	686	NT	0.11	0.0022	ND	ND	ND	ND	
	2/3/2000	CORDILLERAN	ND	NT	4.75	11	7.64	922	NT	0.7434	0.0013	ND	ND	ND	ND	
	4/20/2000	CORDILLERAN	ND	NT	4.21	4	7.76	884	NT	0.2631	ND	ND	ND	ND	ND	
	7/17/2000	CORDILLERAN	ND	NT	2.65	10	7.8	845	NT	0.5533	0.0024	ND	ND	ND	ND	
	10/19/2000	CORDILLERAN	4	NT	3.48	3	7.2	616	NT	0.0969	ND	ND	ND	ND	ND	
	2/1/2001	CORDILLERAN	4	NT	2.97	0	6.72	663	NT	0.042	ND	ND	ND	ND	ND	
	4/27/2001	CORDILLERAN	ND	NT	0.73	10	7.46	628	NT	0.91	ND	ND	ND	ND	ND	
	7/25/2001	CORDILLERAN	ND	NT	2.2	33	7.26	605	NT	0.62	0.0018	ND	ND	ND	ND	
	10/30/2001	CORDILLERAN	NT	NT	0.05	0	7.25	582	NT	0.23	0.0018	ND	ND	ND	ND	
	2/1/2002	CORDILLERAN	NT	NT	0.3	1	7.4	NT	NT	0.062	ND	ND	ND	ND	ND	
	4/18/2002	CORDILLERAN	NT	NT	5.32	0	7.52	628	NT	0.031	ND	ND	ND	ND	NT	
	7/25/2002	CORDILLERAN	NT	NT	4.08	16.7	7.53	903	NT	0.16	ND	ND	ND	ND	ND	
	10/28/2002	CORDILLERAN	NT	NT	4.63	83.4	7.65	893	600	0.15	ND	ND	ND	ND	ND	
	1/20/2003	CORDILLERAN	NT	NT	6.65	0	7.28	869	600	0.014	ND	ND	ND	ND	ND	
	4/29/2003	CORDILLERAN	NT	NT	6.5	30.9	7.37	875	600	0.0056	ND	ND	ND	ND	ND	
	7/18/2003	CORDILLERAN	NT	NT	6.79	NT	7.44	879	NT	0.001	ND	ND	ND	ND	ND	
	10/30/2003	CORDILLERAN	NT	NT	17.54	12.2	7.82	853	600	0.0014	ND	ND	ND	ND	ND	
	1/30/2004	CORDILLERAN	NT	NT	7.51	10.7	7.55	815	500	0.1	ND	ND	ND	ND	ND	
	5/19/2004	CORDILLERAN	NT	NT	8.39	25.9	7.28	850	500	ND	ND	ND	ND	ND	ND	
	7/30/2004	CORDILLERAN	NT	NT	7.28	51.8	7.38	858	600	ND	ND	ND	ND	ND	ND	
	10/26/2004	CORDILLERAN	NT	NT	9.67	15.2	7.49	788	500	ND	ND	ND	ND	ND	ND	
	1/31/2005	CORDILLERAN	NT	NT	4.37	9	8.04	835	500	0.0009	ND	ND	ND	ND	ND	
	4/27/2005	CORDILLERAN	NT	NT	4.25	14	7.24	861	600	ND	ND	ND	ND	ND	ND	
	7/26/2005	CORDILLERAN	NT	NT	1.89	10.7	7.1	949	600	ND	ND	ND	ND	ND	ND	
	10/28/2005	CORDILLERAN	NT	NT	3.28	10	7.42	803	500	ND	ND	ND	ND	ND	ND	
	1/31/2006	CORDILLERAN	NT	NT	3.12	8.9	7.27	775	500	0.0016	ND	ND	ND	ND	ND	
	7/13/2006	CORDILLERAN	NT	NT	2.74	25	8.12	978	600	ND	ND	ND	ND	ND	ND	
	8/1/2007	CORDILLERAN	NT	NT	3.16	51.2	7.25	826	500	ND	ND	ND	ND	ND	ND	
OW-02	12/17/1997	MAXXIM	ND	NT	dry	NT	NT	NT	dry	NT	NT	NT	NT	NT	NT	
	1/6/1998	MAXXIM	NT	NT	dry	NT	NT	NT	dry	NT	NT	NT	NT	NT	NT	
OW-03	12/12/1997	MAXXIM	9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	1/7/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	0.55	0.021	0.013	0.00065	0.00518	0.18	
	2/13/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	2.8	0.0096	0.0038	ND	0.0021	0.19	
	3/17/1998	MAXXIM	68	NT	1.6	NT	NT	NT	NT	0.6	ND	ND	ND	ND	ND	
	4/13/1998	MAXXIM	50	NT	5.48	NT	6.82	696	NT	0.73	ND	ND	ND	ND	ND	
	5/12/1998	MAXXIM	NT	NT	NT	NT	7.24	997	NT	4.4	0.011	ND	ND	ND	ND	
	7/21/1998	MAXXIM	8	NT	NT	NT	7.5	1043	NT	4.5	0.016	ND	ND	ND	ND	
	10/13/1998	MAXXIM	8	NT	NT	NT	7.77	975	NT	0.0051	0.003	ND	ND	ND	ND	
	1/19/1999	MAXXIM	NT	NT	NT	NT	6.87	1032	NT	2.3	ND	ND	ND	ND	ND	
	4/15/1999	TERRACON	2	NT	4.8	NT	7.82	945	NT	0.17	ND	ND	ND	ND	ND	
	7/14/1999	TERRACON	ND	NT	5.35	NT	NT	865	NT	ND	ND	ND	ND	ND	ND	
	10/14/1999	TERRACON	12	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	2/3/2000	CORDILLERAN	4	NT	3.86	999	7.47	1030	NT	1.0989	ND	ND	ND	ND	ND	
	4/20/2000	CORDILLERAN	ND	NT	3.09	999	7.35	1040	NT	1.4807	ND	ND	ND	ND	ND	
	7/17/2000	CORDILLERAN	ND	NT	3.76	811	7.74	925	NT	0.7519	0.0012	ND	ND	ND	ND	
	10/19/2000	CORDILLERAN	3	NT	3.1	999	5.91	713	NT	1.1424	0.0018	ND	ND	ND	ND	
	2/2/2001	CORDILLERAN	3	NT	NT	NT	NT	NT	NT	0.76	ND	ND	ND	ND	ND	
	4/27/2001	CORDILLERAN	ND	NT	5.14	1000	7.57	756	NT	1.75	ND	ND	ND	ND	ND	
OW-04	12/17/1997	MAXXIM	4	NT	1.5	NT	7.38	916	584	0.22	ND	ND	ND	ND	ND	
	1/7/1998	MAXXIM	ND	NT	NT	NT	NT	NT	NT	0.0017	ND	ND	ND	ND	ND	
	2/13/1998	MAXXIM	NT	NT	3.9	NT	7.03	1112	NT	ND	ND	ND	ND	ND	ND	
	3/17/1998	MAXXIM	1	NT	1.86	NT	7.33	1077	NT	ND	ND	ND	ND	ND	ND	
	4/30/1998	BARRETT	NT	NT	NT	NT	NA	NA	NT	ND	ND	ND	ND	ND	NT	
	5/12/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.74	1064	NT	0.002	ND	ND	ND	ND	NT	
	10/13/1998	MAXXIM	ND	NT	NT	NT	6.81	1048	NT	ND	ND	ND	ND	ND	NT	



TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	SAMPLE COLLECTOR	COMBUSTIBLE GAS CONCEN. AT WELLHEAD % LEL	METHANE IN SMPL HEADSPACE (ppm)	DO (mg/L)	TURBIDITY (Ntu)	pH	CONDUCTIVITY (uS)	TOTAL DISSOLVED SOLIDS (ma/L)	METHANE IN WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUNE IN WATER (mg/l)	E.BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
LABORTORY DETECTION LIMITS			NA	NA	NA	NA	NA	NA	NA	0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS			NA	NA	NA	NA	6.5-8.5*	NA	500*	NA	0.005	1	0.68	10	NA	
	1/18/1999	MAXXIM	NT	NT	NT	NT	7.23	1050	NT	0.0018	ND	ND	ND	ND	NT	
	4/15/1999	TERRACON	1	NT	1.35	NT	6.22	1033	NT	0.0052	0.00069	ND	ND	ND	NT	
	4/25/1999	TERRACON	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	0.00048	NT	
	7/14/1999	TERRACON	ND	NT	2.39	NT	NT	1464	NT	ND	ND	ND	ND	ND	NT	
	10/14/1999	TERRACON	ND	NT	1.93	NT	7.14	932	NT	ND	ND	ND	ND	ND	NT	
	2/3/2000	CORDILLERAN	ND	NT	3.14	0	7.55	1140	NT	ND	ND	ND	ND	ND	NT	
	2/16/2000	COGCC	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	NT	
	4/21/2000	CORDILLERAN	ND	NT	3.38	24	7.58	1100	NT	ND	ND	ND	ND	ND	NT	
	7/17/2000	CORDILLERAN	ND	NT	4.5	186	8.01	1080	NT	0.1426	ND	ND	ND	ND	NT	
	10/19/2000	CORDILLERAN	1	NT	7.77	9	7.1	828	NT	0.0477	ND	ND	ND	ND	NT	
	2/1/2001	CORDILLERAN	ND	NT	2.25	1	7.05	114	NT	0.008	ND	ND	ND	ND	NT	
	4/27/2001	CORDILLERAN	ND	NT	0.4	5	6.88	758	NT	0.011	ND	ND	ND	ND	ND	
	7/25/2001	CORDILLERAN	ND	NT	0.67	11	7.23	667	NT	0.44	ND	ND	ND	ND	ND	
	10/30/2001	CORDILLERAN	NT	NT	3.66	13	7.29	654	NT	0.61	ND	ND	ND	ND	ND	
	2/1/2002	CORDILLERAN	NT	NT	0.5	0	7.55	NT	NT	0.28	ND	ND	ND	ND	ND	
	4/18/2002	CORDILLERAN	NT	NT	5.89	14	7.95	NT	NT	0.064	ND	ND	ND	ND	NT	
	7/25/2002	CORDILLERAN	NT	NT	6.46	123	7.65	1052	NT	0.34	ND	ND	ND	ND	ND	
	10/28/2002	CORDILLERAN	NT	NT	8.83	98.7	7.86	1084	700	0.92	ND	ND	ND	ND	ND	
	1/20/2003	CORDILLERAN	NT	NT	1.3	0	7.4	1009	600	4.9	ND	ND	ND	ND	ND	
	3/19/2003	CORDILLERAN	NT	NT	8.13	21.9	7.56	1113	700	NT	NT	NT	NT	NT	NT	
	4/29/2003	CORDILLERAN	NT	NT	7.69	534	7.38	1097	700	0.97	ND	ND	ND	ND	ND	
	7/18/2003	CORDILLERAN	NT	NT	7.47	83.1	7.68	891	600	1.4	ND	ND	ND	ND	ND	
	10/30/2003	CORDILLERAN	NT	NT	2.51	2.6	7.71	874	600	1.3	ND	ND	ND	ND	ND	
	1/30/2004	CORDILLERAN	NT	NT	4.25	20.6	7.6	864	600	1.3	ND	ND	ND	ND	ND	
	5/19/2004	CORDILLERAN	NT	NT	3.1	33.5	7.43	904	600	0.22	ND	ND	ND	ND	ND	
	7/30/2004	CORDILLERAN	NT	NT	9.15	73.1	7.78	879	600	1.6	0.0016	ND	ND	ND	ND	
	10/26/2004	CORDILLERAN	NT	NT	6.88	14.1	7.72	850	600	0.92	ND	ND	ND	ND	ND	
	1/31/2005	CORDILLERAN	NT	NT	1.39	23.8	8.13	899	600	0.88	ND	ND	ND	ND	ND	
	4/27/2005	CORDILLERAN	NT	NT	0.83	17.8	7.45	881	600	0.51	ND	ND	ND	ND	ND	
	7/26/2005	CORDILLERAN	NT	NT	2.01	24.4	7.23	941	600	0.74	ND	ND	ND	ND	ND	
	10/28/2005	CORDILLERAN	NT	NT	3	9.2	7.78	965	600	0.66	ND	ND	ND	ND	ND	
	1/30/2006	CORDILLERAN	NT	NT	0.78	8.4	7.48	836	500	ND	0.0027	ND	ND	ND	ND	
	2/15/2006	CORDILLERAN	NT	NT	0.39	18.8	7.68	892	600	ND	ND	ND	ND	ND	ND	Resample for 1/30/06 sample
	4/21/2006	CORDILLERAN	NT	NT	1.07	7	7.57	787	500	0.074	ND	ND	ND	ND	ND	
	7/12/2006	CORDILLERAN	NT	NT	2.95	16.9	8.2	989	600	0.74	0.0025	ND	ND	ND	ND	
	7/26/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	Resample for 7/12/06 sample
	10/23/2006	CORDILLERAN	NT	NT	2.37	11.9	7.35	932	600	0.36	0.0018	ND	ND	ND	NT	
	11/29/2006	CORDILLERAN	NT	NT	2.54	47.9	8.69	907	600	0.43	0.003	ND	ND	ND	ND	
	11/29/2006	CORDILLERAN	NT	NT	2.53	47.1	8.72	907	600	0.46	0.0031	ND	ND	ND	NT	After cistern and pressure tank
	12/20/2006	CORDILLERAN	NT	NT	3.68	86	7.18	1102	700	NT	0.0024	ND	ND	ND	NT	
	12/20/2006	CORDILLERAN	NT	NT	3.68	86	7.18	1102	700	NT	0.00249	ND	ND	ND	NT	Split sent to ESN RM
	1/30/2007	CORDILLERAN	NT	NT	3.41	51.7	7.35	1102	700	0.29	0.002	ND	ND	ND	ND	
	3/6/2007	CORDILLERAN	NT	NT	2.11	30.5	8.78	919	600	ND	ND	ND	ND	ND	ND	
	3/30/2007	CORDILLERAN	NT	NT	0.96	106	6.89	1392	900	0.15	0.0043	ND	ND	ND	ND	Water was sudsy.
	4/25/2007	CORDILLERAN	NT	NT	1.2	90.3	7.09	1110	700	ND	0.005	ND	ND	ND	ND	No Purge
	5/1/2007	CORDILLERAN	NT	NT	1.22	54.1	7.12	1157	700	0.072	ND	ND	ND	ND	ND	Collected before cistern
	6/6/2007	CORDILLERAN	NT	NT	1.84	65.6	7.62	835	500	ND	ND	ND	ND	ND	ND	Collected before cistern
	6/27/2007	CORDILLERAN	NT	NT	1.38	63.5	7.18	929	600	0.029	ND	ND	ND	ND	ND	Collected before cistern
	8/1/2007	CORDILLERAN	NT	NT	1.85	21.9	7.21	987	600	0.016	ND	ND	ND	ND	ND	Collected before cistern
	8/29/2007	CORDILLERAN	NT	NT	2.23	11.7	7.35	870	600	0.19	ND	ND	ND	ND	ND	Collected before cistern
	10/11/2007	CORDILLERAN	NT	NT	3	66.8	8.03	847	500	1.3	0.0063	ND	ND	ND	ND	Collected before cistern
	10/18/2007	CORDILLERAN	NT	NT	2.12	3.4	7.42	940	460	0.067	ND	ND	ND	ND	ND	After cistern and pressure tank
	10/18/2007	CORDILLERAN	NT	NT	1.74	27.6	7.52	953	470	0.93	ND	ND	ND	ND	ND	Collected before cistern. No purge
	10/18/2007	CORDILLERAN	NT	NT	2.79	7.62	2.8	892	430	1.0	0.005	ND	ND	ND	ND	Collected before cistern. 1 Hour purge.
	11/28/2007	CORDILLERAN	NT	NT	4.3	5.2	7.4	1161	800	ND	ND	ND	ND	ND	ND	No Purge
	11/28/2007	CORDILLERAN	NT	NT	4.3	5.2	7.4	1161	800	NT	ND	ND	ND	ND	ND	No Purge (Method 8260B)
	11/28/2007	CORDILLERAN	NT	NT	4.3	5.2	7.4	1161	800	NT	ND	ND	ND	ND	NT	No Purge, Filtered
	11/28/2007	CORDILLERAN	NT	NT	4.3	5.2	7.4	1161	800	NT	ND	0.004	ND	ND	NT	No Purge, Filtered (Method 8260B)
	11/28/2007	CORDILLERAN	NT	NT	2.34	6.6	7.47	1077	700	0.36	0.0026	ND	ND	ND	ND	1 Hour Purge
	11/28/2007	CORDILLERAN	NT	NT	2.34	6.6	7.47	1077	700	NT	0.0027	ND	ND	ND	ND	1 Hour Purge (Method 8260B)
	11/28/2007	CORDILLERAN	NT	NT	2.34	6.6	7.47	1077	700	NT	0.0026	ND	ND	ND	NT	1 Hour Purge, Filtered
	11/28/2007	CORDILLERAN	NT	NT	2.34	6.6	7.47	1077	700	NT	0.0028	ND	ND	ND	NT	1 Hour Purge, Filtered (Method 8260B)
	11/28/2007	CORDILLERAN	NT	NT	6.32	7.7	7.75	7084	700	ND	ND	ND	ND	ND	ND	No Purge, Post Cistern
	11/28/2007	CORDILLERAN	NT	NT	6.32	7.7	7.75	7084	700	NT	ND	ND	ND	ND	ND	No Purge, Post Cistern (Method 8260B)
OW-05	12/17/1997	MAXXIM	4	NT	1.94	NT	7.41	626	494	0.21	ND	ND	ND	ND	ND	
	1/7/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	0.02	ND	0.0017	ND	ND	ND	
	2/13/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	4/30/1998	BARRETT	NT	NT	NT	NT	NA	NA	NT	ND	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.94	726	NT	0.023	ND	ND	ND	ND	NT	
	10/13/1998	MAXXIM	ND	NT	NT	NT	6.1	765	NT	ND	ND	ND	ND	ND	NT	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	SAMPLE COLLECTOR	COMBUSTIBLE GAS CONCEN. AT WELLHEAD % LEL	METHANE IN SMPL HEADSPACE (ppm)	DO (mg/L)	TURBIDITY (Ntu)	pH	CONDUCTIVITY (uS)	TOTAL DISSOLVED SOLIDS (ma/L)	METHANE IN WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUNE IN WATER (mg/l)	E.BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
LABORTORY DETECTION LIMITS			NA	NA	NA	NA	NA	NA	NA	0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS	1/18/1999	MAXXIM	NA	NA	NA	NA	6.5-8.5*	NA	500*	NA	0.005	1	0.68	10	NA	
			NT	NT	NT	NT	6.78	780	NT	0.015	ND	ND	ND	ND	NT	
OW-06	12/18/1997	MAXXIM	ND	NT	7.6	NT	8.15	770	507	ND	ND	0.00051	ND	ND	ND	
	1/7/1998	MAXXIM	ND	NT	NT	NT	NT	NT	NT	0.0014	ND	ND	ND	ND	ND	
	2/13/1998	MAXXIM	ND	NT	NT	NT	6.45	823	NT	0.0036	ND	ND	ND	ND	ND	
	4/14/1998	MAXXIM	ND	NT	7.28	NT	6.51	857	NT	ND	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.82	771	NT	ND	ND	ND	ND	ND	NT	
	10/13/1998	MAXXIM	ND	NT	NT	NT	7.12	798	NT	ND	ND	ND	ND	ND	NT	
	1/18/1999	MAXXIM	NT	NT	NT	NT	7.53	820	NT	ND	ND	ND	ND	ND	NT	
OW-07	2/16/2000	CORDILLERAN	ND	NT	NT	21	7.62	865	519	ND	ND	ND	ND	ND	NT	
	2/16/2000	COGCC	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	
	4/20/2000	CORDILLERAN	ND	NT	5.64	13	7.54	905	NT	ND	ND	ND	ND	ND	ND	
	7/17/2000	CORDILLERAN	ND	NT	5.15	9	7.8	729	NT	ND	ND	ND	ND	ND	ND	
	10/19/2000	CORDILLERAN	2	NT	5.36	527	7.3	618	NT	ND	ND	ND	ND	ND	ND	
	2/2/2001	CORDILLERAN	2	NT	6	84	7.51	652	NT	ND	ND	ND	ND	ND	ND	
	4/27/2001	CORDILLERAN	ND	NT	4.82	97	7.72	629	NT	ND	ND	ND	ND	ND	ND	
	7/25/2001	CORDILLERAN	2	NT	5.56	963	7.55	595	NT	ND	ND	ND	ND	ND	ND	
	10/30/2001	CORDILLERAN	NT	NT	4.62	999	7.53	582	NT	0.0009	ND	ND	ND	ND	ND	
	2/1/2002	CORDILLERAN	NT	NT	1.29	472	7.61	NT	NT	ND	ND	ND	ND	ND	ND	
	4/18/2002	CORDILLERAN	NT	NT	4.36	66	7.82	626	NT	ND	ND	ND	ND	ND	NT	
	7/25/2002	CORDILLERAN	NT	NT	7.65	2000	7.56	897	NT	0.0098	ND	ND	ND	ND	ND	
	10/28/2002	CORDILLERAN	NT	NT	8.33	2000	7.67	883	600	0.0037	ND	ND	ND	ND	ND	
	1/20/2003	CORDILLERAN	NT	NT	7.3	2000	7.39	88	600	0.0017	ND	ND	ND	ND	ND	
	4/29/2003	CORDILLERAN	NT	NT	6.72	846	7.28	879	600	0.0017	ND	ND	ND	ND	ND	
	7/18/2003	CORDILLERAN	NT	NT	7.07	452	7.3	888	600	0.001	ND	ND	ND	ND	ND	
	10/30/2003	CORDILLERAN	NT	NT	8.17	4.5	7.72	865	600	ND	ND	ND	ND	ND	ND	
	1/30/2004	CORDILLERAN	NT	NT	5.63	249	7.46	835	500	0.0008	ND	ND	ND	ND	ND	
	5/19/2004	CORDILLERAN	NT	NT	4.57	296	7.21	847	500	ND	ND	ND	ND	ND	ND	
	7/30/2004	CORDILLERAN	NT	NT	6.29	799	7.34	853	600	0.0013	ND	ND	ND	ND	ND	
	10/26/2004	CORDILLERAN	NT	NT	6.19	188.1	7.36	793	500	ND	ND	ND	ND	ND	ND	
	1/31/2005	CORDILLERAN	NT	NT	5.23	12.2	8.1	833	500	ND	ND	ND	ND	ND	ND	
	4/27/2005	CORDILLERAN	NT	NT	4.44	122	7.38	809	500	ND	ND	ND	ND	ND	ND	
	7/26/2005	CORDILLERAN	NT	NT	2.15	74.6	7.15	922	600	ND	ND	ND	ND	ND	ND	
	10/28/2005	CORDILLERAN	NT	NT	4.21	161	7.55	776	500	ND	ND	ND	ND	ND	ND	
	1/30/2006	CORDILLERAN	NT	NT	5.77	127	7.3	754	500	ND	ND	ND	ND	ND	ND	
	4/21/2006	CORDILLERAN	NT	NT	5.49	65	7.42	767	500	ND	ND	ND	ND	ND	ND	
	7/18/2006	CORDILLERAN	NT	NT	4.51	267	8.01	958	600	ND	ND	ND	ND	ND	ND	
	8/1/2007	CORDILLERAN	NT	NT	5.7	251	7.21	822	500	0.014	ND	ND	ND	ND	ND	
OW-08A	12/14/2000	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	0.035	0.0071	ND	0.0043	NT	
	1/18/2001	CORDILLERAN	NT	NT	2.57	53	6.89	686	NT	NT	NT	NT	NT	NT	NT	
	2/1/2001	CORDILLERAN	80	NT	4.25	23	7.03	705	NT	4.3	0.097	ND	ND	ND	0.21	
	3/16/2001	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	0.032	ND	ND	ND	NT	
	4/27/2001	CORDILLERAN	40	NT	4.11	12	7.04	672	NT	7.1	0.023	ND	ND	ND	ND	
	5/21/2001	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	0.017	ND	ND	ND	ND	
	7/25/2001	CORDILLERAN	>20%	NT	5.13	96	7.33	647	NT	2.79	0.025	ND	ND	ND	ND	
	8/15/2001	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	0.0088	ND	ND	ND	ND	
	9/21/2001	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	0.015	ND	ND	ND	NT	
	10/30/2001	CORDILLERAN	NT	NT	3.67	65	7.67	626	NT	0.047	0.016	ND	ND	ND	ND	
	12/13/2001	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	0.02	ND	ND	ND	NT	
	1/10/2002	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	0.014	ND	ND	ND	NT	
	2/1/2002	CORDILLERAN	NT	NT	2.5	126	7.62	663	NT	1.9	0.014	ND	ND	ND	ND	
	3/15/2002	CORDILLERAN	NT	NT	5.16	53	6.49	1050	NT	2.4	0.011	ND	ND	ND	NT	
	4/18/2002	CORDILLERAN	NT	NT	3.91	34	7.75	NT	NT	3.1	0.0078	ND	ND	ND	NT	
	5/28/2002	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	2.5	0.0046	ND	ND	ND	NT	
	7/25/2002	CORDILLERAN	NT	NT	5.99	157	7.37	939	NT	2	0.0054	ND	ND	ND	ND	
	8/12/2002	CORDILLERAN	NT	NT	7.09	220	7.33	924	NT	2.06	0.006	ND	ND	ND	ND	
	9/6/2002	CORDILLERAN	NT	NT	7.75	34.7	7.48	932	NT	1.7	0.0034	ND	ND	ND	NT	
	10/28/2002	CORDILLERAN	NT	NT	3.73	35.2	7.51	922	600	3	0.0061	ND	ND	ND	ND	
	12/3/2002	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	2.7	0.0065	ND	ND	ND	NT	
	12/30/2002	CORDILLERAN	NT	NT	3.4	4.8	7.42	922	NT	4.5	0.012	ND	ND	0.017	NT	
	1/21/2003	CORDILLERAN	NT	NT	8.71	10.9	7.3	879	600	12	0.015	ND	ND	ND	ND	
	3/7/2003	CORDILLERAN	NT	NT	6.01	486	7.32	899	600	12	0.017	ND	ND	ND	NT	
	4/29/2003	CORDILLERAN	NT	NT	6.08	452	7.41	891	600	13	0.015	ND	ND	ND	ND	
	5/23/2003	CORDILLERAN	NT	NT	4.78	112	7.25	911	600	12	0.013	ND	ND	ND	ND	
	6/19/2003	CORDILLERAN	NT	NT	3.34	172	7.49	906	600	12	0.013	ND	ND	ND	ND	
	7/18/2003	CORDILLERAN	NT	NT	4.41	122	7.43	906	600	5.8	0.012	ND	ND	ND	ND	
	9/2/2003	CORDILLERAN	NT	NT	8.44	460	7.34	890	600	NT	0.026	ND	ND	ND	ND	
	9/24/2003	CORDILLERAN	NT	NT	5.72	334	7.66	864	600	13	0.025	ND	ND	ND	ND	
	10/1/2003	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	12	0.022	ND	ND	ND	ND	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	SAMPLE COLLECTOR	COMBUSTIBLE GAS CONCEN. AT WELLHEAD % LEL	METHANE IN SMPL HEADSPACE (ppm)	DO (mg/L)	TURBIDITY (Ntu)	pH	CONDUCTIVITY (uS)	TOTAL DISSOLVED SOLIDS (ma/L)	METHANE IN WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUNE IN WATER (mg/l)	E.BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
LABORTORY DETECTION LIMITS			NA	NA	NA	NA	NA	NA	NA	0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS			NA	NA	NA	NA	6.5-8.5*	NA	500*	NA	0.005	1	0.68	10	NA	
	10/30/2003	CORDILLERAN	NT	NT	3.44	13.7	7.55	886	600	12	0.018	ND	ND	ND	ND	
	12/1/2003	CORDILLERAN	NT	NT	4.33	61.3	6.98	836	500	14	0.018	ND	ND	ND	ND	
	12/16/2003	CORDILLERAN	NT	NT	1.94	28.2	20.7	836	500	15	0.019	ND	ND	ND	ND	
	1/30/2004	CORDILLERAN	NT	NT	3.15	50.9	7.4	800	500	10	0.016	ND	ND	ND	ND	
	2/23/2004	CORDILLERAN	NT	NT	12.62	87.8	7.65	816	500	16	0.015	ND	ND	ND	ND	
	4/1/2004	CORDILLERAN	NT	NT	3.15	50.9	7.4	800	500	9.6	0.013	ND	ND	ND	ND	
	5/19/2004	CORDILLERAN	NT	NT	2.93	1113	7.31	841	500	6.3	0.016	ND	ND	ND	ND	
	7/1/2004	CORDILLERAN	NT	NT	2.15	2000	7.11	808	500	9.1	0.014	ND	ND	ND	ND	
	10/26/2004	CORDILLERAN	NT	NT	6.31	1143	7.47	805	500	16	0.0088	ND	ND	ND	ND	
	11/29/2004	CORDILLERAN	NT	NT	12.19	1029	7.77	858	500	13	0.0091	ND	ND	ND	ND	
	1/5/2005	CORDILLERAN	NT	NT	0.6	2000	7.46	764	500	6.8	0.0015	ND	ND	ND	ND	No Purge
	1/5/2005	CORDILLERAN	NT	NT	0.51	1209	7.5	794	500	14	0.011	ND	ND	ND	ND	2 Hour Purge
	1/31/2005	CORDILLERAN	NT	NT	0.17	23.8	8.13	803	500	10	0.0043	ND	ND	ND	ND	No Purge
	1/31/2005	CORDILLERAN	NT	NT	0.25	1123	7.96	840	500	12	0.01	ND	ND	ND	ND	1 Hour Purge
	3/7/2005	CORDILLERAN	NT	NT	0.17	2000	7.44	818	500	10	0.0039	ND	ND	ND	ND	No Purge
	3/7/2005	CORDILLERAN	NT	NT	0.14	668	7.46	822	500	15	0.0099	ND	ND	ND	ND	1 3/4 Hour Purge
	4/27/2005	CORDILLERAN	NT	NT	1.63	720	7.47	750	500	9.8	0.0098	ND	ND	ND	ND	No Purge
	4/27/2005	CORDILLERAN	NT	NT	0.87	400	7.23	829	500	12	0.013	ND	ND	ND	ND	1 1/2 Purge
	5/27/2005	CORDILLERAN	NT	NT	0.23	494	7.55	787	500	10	ND	ND	ND	ND	ND	No Purge
	5/27/2005	CORDILLERAN	NT	NT	0.15	741	7.27	833	500	13	ND	ND	ND	ND	ND	1/2 Hour Purge
	6/29/2005	CORDILLERAN	NT	NT	2.62	129	7.1	876	600	3.4	ND	ND	ND	ND	ND	No Purge
	6/29/2005	CORDILLERAN	NT	NT	2.57	65	7.28	872	600	4.9	0.0035	ND	ND	ND	ND	1/2 Hour Purge
	7/26/2005	CORDILLERAN	NT	NT	1	18.8	6.91	952	600	ND	ND	ND	ND	ND	ND	No Purge
	7/26/2005	CORDILLERAN	NT	NT	0.94	17.9	7.05	956	600	1.5	0.0016	ND	ND	ND	ND	2 Hour Purge
	8/25/2005	CORDILLERAN	NT	NT	0.91	170	7.08	838	500	2.4	ND	ND	ND	ND	ND	No Purge
	8/25/2005	CORDILLERAN	NT	NT	1.17	33.7	7.32	839	500	3.9	0.0025	ND	ND	ND	ND	1 Hour Purge
	9/21/2005	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.83	ND	ND	ND	ND	ND	No Purge
	9/21/2005	CORDILLERAN	NT	NT	1.14	141	7.2	844	500	3.2	ND	ND	ND	ND	ND	1 Hour Purge
	10/28/2005	CORDILLERAN	NT	NT	0.75	246	7.33	790	500	3.2	ND	ND	ND	ND	ND	No Purge
	10/28/2005	CORDILLERAN	NT	NT	2.1	60.6	7.33	828	500	4.5	ND	ND	ND	ND	ND	1 Hour Purge
	11/29/2005	CORDILLERAN	NT	NT	0.99	1182	7.14	801	500	6.2	ND	ND	ND	ND	ND	No Purge
	11/29/2005	CORDILLERAN	NT	NT	1.58	109	7.12	799	500	9.4	0.0067	ND	ND	ND	ND	1 Hour Purge
	1/5/2006	CORDILLERAN	NT	NT	3.1	5999	7.03	791	500	5.5	ND	ND	ND	ND	ND	No Purge
	1/5/2006	CORDILLERAN	NT	NT	1.71	172	7.08	801	500	7.8	0.0094	ND	ND	ND	ND	1 Hour Purge
	1/30/2006	CORDILLERAN	NT	NT	0.55	5999	7.13	781	500	4.7	ND	ND	ND	ND	ND	No Purge
	1/30/2006	CORDILLERAN	NT	NT	0.46	32.4	7.26	794	500	8.4	0.0031	ND	ND	ND	ND	1 Hour Purge
	2/28/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	2.1	ND	ND	ND	ND	ND	No Purge
	2/28/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	7.3	0.0011	ND	ND	ND	ND	1 Hour Purge
	3/30/2006	CORDILLERAN	NT	NT	0.57	5999	7.94	838	500	6.5	ND	ND	ND	ND	ND	No Purge
	3/30/2006	CORDILLERAN	NT	NT	0.5	255	8.01	859	600	14	ND	ND	ND	ND	ND	1 Hour Purge
	4/21/2006	CORDILLERAN	NT	NT	0.5	30	7.27	793	500	9.2	0.0079	ND	ND	ND	ND	2 Hour Purge
	6/6/2006	CORDILLERAN	NT	NT	0.35	806	8.36	865	600	5.9	ND	ND	ND	ND	ND	No Purge
	6/6/2006	CORDILLERAN	NT	NT	0.28	49.7	8.36	876	600	8.7	ND	ND	ND	ND	ND	2 Hour Purge
	7/12/2006	CORDILLERAN	NT	NT	0.35	1243	7.95	999	600	3.9	ND	ND	ND	ND	ND	No Purge
	7/12/2006	CORDILLERAN	NT	NT	0.3	92.8	7.78	1023	700	7.1	ND	ND	ND	ND	ND	1 Hour Purge
	8/10/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	10	ND	ND	ND	ND	ND	No purge
	8/10/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	10	0.002	ND	ND	ND	ND	10 minute purge
	8/10/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	3	ND	ND	ND	ND	ND	Collected from spray 10 minute purge
	8/10/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	7.3	0.0026	ND	ND	ND	ND	100 minute purge
	8/10/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.13	ND	ND	ND	ND	ND	Collected from spray 100 minute purge
	8/10/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	8.4	0.0032	ND	ND	ND	ND	200 minute purge
	8/10/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.12	ND	ND	ND	ND	ND	Collected from spray 200 minute purge
	8/10/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.058	ND	ND	ND	ND	ND	500 minute purge
	8/10/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	6.7	ND	ND	ND	ND	ND	Collected from spray 500 minute purge
	8/14/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	13	0.009	0.037	ND	ND	ND	No purge
	9/27/2006	CORDILLERAN	NT	NT	0.34	1990	7.04	879	600	13	0.0025	ND	ND	ND	ND	No Purge
	9/27/2006	CORDILLERAN	NT	NT	0.31	670	7.12	878	600	9.3	0.0038	ND	ND	ND	ND	1 Hour Purge
	10/23/2006	CORDILLERAN	NT	NT	2	219	7.02	877	600	5.1	0.0019	ND	ND	ND	NT	No Purge
	10/23/2006	CORDILLERAN	NT	NT	0.14	125	7.09	891	600	6.8	0.0044	ND	ND	ND	NT	2 Hour Purge
	1/30/2007	CORDILLERAN	NT	NT	1.58	95.2	7.2	1001	600	4.1	0.0028	ND	ND	ND	ND	No Purge
	1/30/2007	CORDILLERAN	NT	NT	0.73	204	7.25	1017	700	4.7	0.0039	ND	ND	ND	ND	2 Hour Purge
	3/6/2007	CORDILLERAN	NT	NT	0.32	146	8.83	849	500	2.6	ND	ND	ND	ND	ND	No Purge
	3/6/2007	CORDILLERAN	NT	NT	0.39	35.9	8.8	846	500	5.7	ND	ND	ND	ND	ND	1 Hour Purge
	3/30/2007	CORDILLERAN	NT	NT	1.04	99.4	7.1	1013	700	4	0.0014	ND	ND	ND	ND	No Purge
	3/30/2007	CORDILLERAN	NT	NT	0.26	63.1	7.08	1003	600	4.7	0.0041	ND	ND	ND	ND	1 Hour Purge
	4/25/2007	CORDILLERAN	NT	NT	1.02	103	6.96	1007	600	3.1	0.0012	ND	ND	ND	0.037	No Purge
	4/25/2007	CORDILLERAN	NT	NT	8.26	517	7.04	1014	700	5.1	0.0017	ND	ND	ND	ND	2 Hour Purge

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	SAMPLE COLLECTOR	COMBUSTIBLE GAS CONCEN. AT WELLHEAD % LEL	METHANE IN SMPL HEADSPACE (ppm)	DO (mg/L)	TURBIDITY (Ntu)	pH	CONDUCTIVITY (uS)	TOTAL DISSOLVED SOLIDS (ma/L)	METHANE IN WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUNE IN WATER (mg/l)	E.BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
LABORTORY DETECTION LIMITS			NA	NA	NA	NA	NA	NA	NA	0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS			NA	NA	NA	NA	6.5-8.5*	NA	500*	NA	0.005	1	0.68	10	NA	
	6/6/2007	CORDILLERAN	NT	NT	0.28	193	7.13	845	500	5.6	0.0017	ND	ND	ND	ND	Unknown Purge
	6/27/2007	CORDILLERAN	NT	NT	0.9	307	7.04	823	500	4.2	0.0042	ND	ND	ND	ND	1 Hour Purge
	8/1/2007	CORDILLERAN	NT	NT	0.5	51.6	7.01	863	600	3.1	0.003	ND	ND	ND	ND	Unknown Purge
	8/29/2007	CORDILLERAN	NT	NT	1.02	311	7.11	792	500	5	0.001	ND	ND	ND	ND	1 Hour Purge
	10/11/2007	CORDILLERAN	NT	NT	2.12	60.3	7.75	767	500	5.6	0.0036	ND	ND	ND	ND	2.5 Hour Purge
	11/28/2007	CORDILLERAN	NT	NT	0.82	10.4	7.38	792	500	4.4	0.0045	0.0067	ND	ND	ND	No Purge
	11/28/2007	CORDILLERAN	NT	NT	0.82	10.4	7.38	792	500	NT	0.0053	0.0014	ND	ND	ND	No Purge (Method 8260B)
	11/28/2007	CORDILLERAN	NT	NT	0.82	10.4	7.38	792	500	NT	0.0028	0.0027	ND	ND	NT	No Purge, Filtered
	11/28/2007	CORDILLERAN	NT	NT	0.82	10.4	7.38	792	500	NT	0.002	0.004	ND	ND	NT	No Purge, Filtered (Method 8260B)
	11/28/2007	CORDILLERAN	NT	NT	1.1	30.8	7.42	808	500	4.7	0.0032	ND	ND	ND	ND	1 Hour Purge
	11/28/2007	CORDILLERAN	NT	NT	1.1	30.8	7.42	808	500	NT	0.0036	ND	ND	ND	ND	1 Hour Purge (Method 8260B)
	11/28/2007	CORDILLERAN	NT	NT	1.1	30.8	7.42	808	500	NT	0.0034	ND	ND	ND	NT	1 Hour Purge, Filtered
	11/28/2007	CORDILLERAN	NT	NT	1.1	30.8	7.42	808	500	NT	0.0033	0.0011	ND	ND	NT	1 Hour Purge, Filtered (Method 8260B)
OW-08B	12/14/2000	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	
	1/18/2001	CORDILLERAN	NT	NT	8.95	12	8.2	600	NT	NT	NT	NT	NT	NT	NT	
	2/1/2001	CORDILLERAN	80	NT	12.2	3	7.68	694	NT	0.18	ND	ND	ND	ND	ND	
	3/16/2001	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	
	4/27/2001	CORDILLERAN	40	NT	5.85	1	7.55	671	NT	0.0029	ND	ND	ND	ND	ND	
	5/21/2001	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	
	7/25/2001	CORDILLERAN	>20%	NT	5.27	103	7.51	667	NT	0.56	0.0025	ND	ND	ND	ND	
	8/15/2001	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	
	9/21/2001	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	NT	
	10/30/2001	CORDILLERAN	NT	NT	1.82	0	7.72	623	NT	1.4	ND	ND	ND	ND	ND	
	12/13/2001	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	NT	
	1/10/2002	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	NT	
	2/1/2002	CORDILLERAN	NT	NT	1.15	2	7.62	NT	NT	1.1	ND	ND	ND	ND	ND	
	3/15/2002	CORDILLERAN	NT	NT	6.03	1	7.64	920	NT	0.29	ND	ND	ND	ND	NT	
	4/18/2002	CORDILLERAN	NT	NT	5.54	0	7.73	NT	NT	1	ND	ND	ND	ND	NT	
	5/28/2002	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	1.3	0.0013	ND	ND	ND	NT	
	7/25/2002	CORDILLERAN	NT	NT	5.76	4.2	7.28	939	NT	2.5	0.0015	ND	ND	ND	ND	
	8/12/2002	CORDILLERAN	NT	NT	3.73	0	7.4	933	NT	0.68	ND	ND	ND	ND	ND	
	9/6/2002	CORDILLERAN	NT	NT	6.49	0	7.34	941	NT	0.52	ND	ND	ND	ND	NT	
	10/28/2002	CORDILLERAN	NT	NT	4.73	0	7.56	917	600	2.7	ND	ND	ND	ND	ND	
	12/3/2002	CORDILLERAN	NT	NT	4.29	6.9	7.13	944	NT	2.4	0.0044	ND	ND	ND	NT	
GOAD original	9/17/1997	MAXXIM	80	NT	NT	NT	7.12	716	NT	11	1	1.5	0.031	0.51	NT	
	9/29/1997	COGCC	>100	NT	NT	MUD	NT	NT	NT	0.0092	1.7	2.2	0.056	670	NA	
	10/8/1997	BARRETT	>100	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
abandoned	10/23/1997	COGCC	>100	NT	NT	MUD	NT	NT	NT	0.064	0.82	1	0.078	0.32	NA	
D-1	5/19/2004	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	6.6	0.005	ND	ND	ND	ND	
	10/14/2004	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.068	ND	ND	ND	ND	ND	
	1/31/2005	CORDILLERAN	NT	NT	5.96	70.9	9.58	870	600	ND	ND	ND	ND	ND	ND	
	5/27/2005	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.91	0.0065	ND	ND	ND	ND	
	7/27/2005	CORDILLERAN	NT	NT	5.37	64.4	8.63	650	400	ND	0.001	ND	ND	ND	ND	
	10/28/2005	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.2	ND	ND	ND	ND	ND	
	3/30/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	7/12/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	2.7	ND	ND	ND	ND	ND	
	10/23/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.063	ND	ND	ND	ND	NT	
	1/30/2007	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.015	ND	ND	ND	ND	ND	
	5/7/2007	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	6/6/2007	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	6/27/2007	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.11	ND	ND	ND	ND	ND	
	8/1/2007	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.69	ND	ND	ND	ND	ND	
D-2	5/19/2004	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	10	0.0054	ND	ND	ND	ND	
	10/14/2004	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	1.6	0.0011	ND	ND	ND	ND	
	1/31/2005	CORDILLERAN	NT	NT	1.56	97.8	9.62	615	400	2.2	0.0013	ND	ND	ND	ND	
	5/27/2005	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.91	ND	ND	ND	ND	ND	
	7/27/2005	CORDILLERAN	NT	NT	5.03	50.9	8.23	734	500	ND	ND	ND	ND	ND	ND	
	10/28/2005	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.0043	ND	0.002	ND	0.0025	ND	
	3/30/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.00077	ND	ND	ND	ND	ND	
	7/12/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	10/23/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.098	ND	ND	ND	ND	NT	
	1/30/2007	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	3.6	0.0036	ND	ND	ND	ND	
	5/7/2007	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.032	ND	ND	ND	ND	ND	
	6/6/2007	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.08	ND	0.0066	ND	ND	ND	
	6/27/2007	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	8/1/2007	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	0.91	ND	0.0032	ND	ND	ND	



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LOCATION		DATE	SAMPLE COLLECTOR	COMBUSTIBLE GAS CONCEN. AT WELLHEAD % LEL	METHANE IN SMPL HEADSPACE (ppm)	DO (mg/L)	TURBIDITY (Ntu)	pH	CONDUCTIVITY (uS)	TOTAL DISSOLVED SOLIDS (ma/L)	METHANE IN WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUNE IN WATER (mg/l)	E.BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
LABORTORY DETECTION LIMITS				NA	NA	NA	NA	NA	NA	NA	0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS				NA	NA	NA	NA	6.5-8.5*	NA	500*	NA	0.005	1	0.68	10	NA	
DW-01	10/29/1997	MAXXIM	4	NT	NT	NT	NT	NT	625	583	12.59	0.41	0.57	0.009	0.108	NT	
	12/23/1997	MAXXIM	NT	NT	NT	NT	NT	NT	NT	NT	2.3	0.13	0.14	ND	0.0306	ND	
	1/27/1998	MAXXIM	72	NT	NT	NT	NT	NT	NT	NT	15	0.23	0.17	0.0074	0.107	1.2	
	4/5/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	NT	13	0.19	0.014	0.0063	0.0529	0.65	
	5/21/1998	MAXXIM	NT	NT	NT	NT	NT	8.97	1043	NT	9.3	0.2	0.021	0.0052	0.0424	0.6	
	7/21/1998	MAXXIM	21	NT	NT	NT	NT	7.88	920	NT	8.4	0.11	0.008	ND	0.0175	0.53	
	10/13/1998	MAXXIM	26	NT	NT	NT	NT	7.25	954	NT	8.9	0.13	0.0064	0.0014	0.0103	0.4	
	12/4/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	NT	10	0.13	0.0032	0.0013	0.0043	0.32	
	1/18/1999	MAXXIM	NT	NT	NT	NT	NT	7.2	872	NT	5.4	0.18	0.0027	0.0007	0.0051	0.35	
	3/9/1999	TERRACON	7	NT	NT	NT	NT	8.66	965	NT	12	0.18	0.005	0.0011	0.0038	0.24	
	4/15/1999	TERRACON	2	NT	NT	5.2	NT	7.26	915	NT	5.6	0.18	0.0043	0.00082	0.0042	NT	
	7/14/1999	TERRACON	ND	NT	0.39	NT	NT	NT	902	NT	11	0.22	0.0023	0.00064	0.0028	0.21	
	10/14/1999	TERRACON	1	NT	2.26	NT	7.21	786	NT	NT	27	0.18	ND	ND	0.0077	0.24	
	2/3/2000	CORDILLERAN	2	NT	1.71	36	7.64	920	NT	NT	4.0548	0.16	ND	0.00044	0.00049	0.48	
	4/26/2000	CORDILLERAN	1	NT	2.93	24	7.37	980	NT	NT	6.5372	0.17	ND	ND	ND	ND	
	7/17/2000	CORDILLERAN	1	NT	2.9	15	7.45	1010	NT	NT	3.2311	0.16	ND	ND	ND	ND	
	10/19/2000	CORDILLERAN	2	NT	0	20	7.1	686	NT	NT	2.6504	0.15	ND	ND	ND	0.46	
	7/12/2006	CORDILLERAN	NT	NT	NT	NT	NT	NT	NT	NT	2.2	ND	ND	ND	ND	ND	No purge
	10/23/2006	CORDILLERAN	NT	NT	1.52	68.3	8.78	262	200	0.095	ND	ND	ND	ND	ND	NT	20 Gallon Purge
	1/30/2007	CORDILLERAN	NT	NT	0.95	56.7	4.29	9260	5200	0.59	0.0022	ND	ND	ND	ND	ND	Acidizer still present.
	3/6/2007	CORDILLERAN	NT	NT	1.7	50	8.45	2400	1500	2.7	0.0026	ND	ND	ND	ND	ND	2.5 Gallon Purge
	3/30/2007	CORDILLERAN	NT	NT	1.08	108	6.02	2300	1500	2.9	0.0027	ND	ND	ND	ND	ND	4 Gallon Purge
	4/25/2007	CORDILLERAN	NT	NT	0.16	64	6.98	1213	800	1	0.0012	ND	ND	ND	ND	ND	
	6/6/2007	CORDILLERAN	NT	NT	0.65	13	7.16	1086	700	1.6	0.0028	ND	ND	ND	ND	ND	3 Hour Purge
	6/27/2007	CORDILLERAN	NT	NT	0.97	77.5	6.94	1015	700	1.8	0.0024	ND	ND	ND	ND	ND	1 Hour purge
	8/1/2007	CORDILLERAN	NT	NT	1.45	22.7	6.96	1047	700	2	0.0033	ND	ND	ND	ND	ND	1.25 Hour Purge
	8/29/2007	CORDILLERAN	NT	NT	0.64	18.8	7.22	936	600	1.5	0.0013	ND	ND	ND	ND	ND	1.5 Hour Purge
	10/11/2007	CORDILLERAN	NT	NT	1.8	22.9	7.62	914	600	1.2	ND	ND	ND	ND	ND	ND	2 Hour Purge
	12/13/2007	CORDILLERAN	NT	NT	1.35	11.8	7.52	956	600	1.4	ND	ND	ND	ND	ND	ND	.5 Hour Purge
WW-02	7/8/1997	COGCC	NT	ND	NT	NT	NT	7.36	729	483	ND	NT	NT	NT	NT	NA	
	9/18/1997	MAXXIM	ND	NT	NT	NT	10.12	7.32	697	NT	NT	NT	NT	NT	NT	NT	
	9/19/1997	COGCC	NT	ND	NT	NT	NT	7.56	718	458	ND	ND	ND	ND	ND	NA	
	10/8/1997	BARRETT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	10/22/1997	COGCC	NT	ND	NT	NT	NT	7.3	540	NT	ND	ND	ND	ND	ND	NA	
	12/30/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	NT	0.0039	ND	ND	ND	ND	ND	
	1/27/1998	MAXXIM	ND	NT	NT	NT	NT	NT	NT	NT	0.0042	ND	ND	ND	ND	ND	
	3/17/1998	MAXXIM	3	NT	4.26	NT	7.13	859	NT	NT	0.026	ND	ND	ND	ND	NT	
	4/14/1998	MAXXIM	2	NT	5.46	NT	6.64	870	NT	NT	0.058	ND	ND	ND	ND	NT	
	5/12/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	4	NT	NT	NT	NT	7.82	850	NT	0.018	ND	ND	ND	ND	NT	
	10/13/1998	MAXXIM	4	NT	NT	NT	NT	7.43	826	NT	0.0025	ND	ND	ND	ND	NT	
	1/19/1999	MAXXIM	NT	NT	NT	NT	NT	8.27	858	NT	ND	ND	ND	ND	ND	NT	
	4/15/1999	TERRACON	2	NT	6.4	NT	6.89	807	NT	NT	ND	ND	ND	ND	ND	NT	
	7/14/1999	TERRACON	ND	NT	7.3	NT	NT	821	NT	NT	0.0059	ND	ND	ND	ND	NT	
	10/14/1999	TERRACON	ND	NT	7.53	NT	7.44	778	NT	NT	ND	ND	ND	ND	ND	NT	
	2/3/2000	CORDILLERAN	2	NT	8.03	0	7.57	935	NT	NT	ND	ND	ND	ND	ND	NT	
	4/20/2000	CORDILLERAN	ND	NT	8.72	35	7.4	923	NT	NT	ND	ND	ND	ND	ND	NT	
	7/17/2000	CORDILLERAN	ND	NT	8.1	5	7.74	860	NT	NT	ND	ND	ND	ND	ND	NT	
	10/19/2000	CORDILLERAN	3	NT	9.08	0	7.1	618	NT	NT	ND	ND	ND	ND	ND	NT	
	2/1/2001	CORDILLERAN	2	NT	10.89	0	6.98	668	NT	NT	ND	ND	ND	ND	ND	NT	
	4/27/2001	CORDILLERAN	ND	NT	8.38	1	7.6	634	NT	NT	ND	ND	ND	ND	ND	NT	
	2/1/2002	CORDILLERAN	NT	NT	0.1	0	7.12	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	4/18/2002	CORDILLERAN	NT	NT	1.65	0	7.51	644	NT	NT	ND	ND	ND	ND	ND	NT	
	7/25/2002	CORDILLERAN	NT	NT	10.25	22.8	7.46	907	NT	NT	ND	ND	ND	ND	ND	ND	
	10/28/2002	CORDILLERAN	NT	NT	8.89	39.3	7.57	892	600	ND	ND	ND	ND	ND	ND	ND	
	1/20/2003	CORDILLERAN	NT	NT	12.97	24.7	7.47	875	600	ND	ND	ND	ND	ND	ND	ND	
	4/29/2003	CORDILLERAN	NT	NT	10.05	6.5	7.37	873	600	0.0012	ND	ND	ND	ND	ND	ND	
	7/18/2003	CORDILLERAN	NT	NT	11.03	43.1	7.41	881	600	ND	ND	ND	ND	ND	ND	ND	
	10/30/2003	CORDILLERAN	NT	NT	10.55	9	7.72	869	600	0.0019	ND	ND	ND	ND	ND	ND	
	1/30/2004	CORDILLERAN	NT	NT	9.78	8.7	7.57	826	500	ND	ND	ND	ND	ND	ND	ND	
	5/19/2004	CORDILLERAN	NT	NT	6.21	27	7.36	860	600	0.0099	ND	ND	ND	ND	ND	ND	
	7/30/2004	CORDILLERAN	NT	NT	7.67	62.3	7.5	870	600	ND	ND	ND	ND	ND	ND	ND	
	10/26/2004	CORDILLERAN	NT	NT	9.92	15.4	7.42	803	500	ND	ND	ND	ND	ND	ND	ND	
	1/31/2005	CORDILLERAN	NT	NT	7.34	13.9	7.97	834	500	0.0016	ND	ND	ND	ND	ND	ND	
	4/27/2005	CORDILLERAN	NT	NT	6.19	13.9	7.24	876	400	ND	ND	ND	ND	ND	ND	ND	
	7/26/2005	CORDILLERAN	NT	NT	2.75	7.7	7.11	945	600	ND	ND	ND	ND	ND	ND	ND	
	10/28/2005	CORDILLERAN	NT	NT	5.72	10.3	7.47	782	500	ND	ND	ND	ND	ND	ND	ND	
	1/31/2006	CORDILLERAN	NT	NT	7.24	9	7.29	766	500	ND	ND	ND	ND	ND	ND	ND	
	4/21/2006	CORDILLERAN	NT	NT	7.11	4.8	7.38	784	500	ND	ND	ND	ND	ND	ND	ND	
	7/18/2006	CORDILLERAN	NT	NT	6.56	23	8.05	971	600	ND	ND	ND	ND	ND	ND	ND	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	SAMPLE COLLECTOR	COMBUSTIBLE GAS CONCEN. AT WELLHEAD % LEL	METHANE IN SMPL HEADSPACE (ppm)	DO (mg/L)	TURBIDITY (Ntu)	pH	CONDUCTIVITY (uS)	TOTAL DISSOLVED SOLIDS (ma/L)	METHANE IN WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUNE IN WATER (mg/l)	E.BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
LABORTORY DETECTION LIMITS			NA	NA	NA	NA	NA	NA	NA	0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS			NA	NA	NA	NA	6.5-8.5*	NA	500*	NA	0.005	1	0.68	10	NA	
	8/1/2007	CORDILLERAN	NT	NT	6.69	19.3	7.14	828	500	0.0031	ND	ND	ND	ND	ND	
DW-03	9/17/1997	MAXXIM	0.4	NT	NT	0.51	7.59	1171	NT	0.12	ND	ND	ND	ND	NT	
	9/19/1997	COGCC	NT	ND	NT	NT	7.65	1273	922	0.0019	ND	ND	ND	ND	NA	
	9/29/1997	COGCC	NT	70	NT	CLEAR	7.69	1188	NT	0.0013	ND	ND	ND	0.00068	NA	
	10/8/1997	BARRETT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	10/22/1997	COGCC	NT	TRACE	NT	NT	7.55	1100	NT	ND	ND	ND	ND	ND	NA	
	12/23/1997	MAXXIM	4	NT	NT	NT	NT	NT	NT	0.075	ND	ND	ND	ND	ND	
	1/27/1998	MAXXIM	4	NT	NT	NT	8	NT	NT	0.076	ND	ND	ND	ND	ND	
	3/17/1998	MAXXIM	4	NT	1.04	NT	7.64	1352	NT	0.11	ND	ND	ND	ND	NT	
	4/13/1998	MAXXIM	3	NT	2.22	NT	7.4	1407	NT	0.069	ND	ND	ND	ND	NT	
	5/12/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	0.075	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	4	NT	NT	NT	8.12	1306	NT	0.1	ND	ND	ND	ND	NT	
	10/13/1998	MAXXIM	5	NT	NT	NT	7.75	1359	NT	ND	ND	ND	ND	ND	NT	
	1/19/1999	MAXXIM	NT	NT	NT	NT	7.1	1415	NT	0.028	ND	ND	ND	ND	NT	
	4/15/1999	TERRACON	ND	NT	0.31	NT	7.72	1307	NT	0.042	ND	ND	ND	ND	NT	
	7/14/1999	TERRACON	5	NT	0.47	NT	NT	1303	NT	ND	ND	ND	ND	ND	NT	
	10/14/1999	TERRACON	6	NT	0.84	NT	7.58	1213	NT	0.16	ND	ND	ND	ND	NT	
	2/3/2000	CORDILLERAN	5	NT	0.04	0	7.76	1430	NT	0.1344	ND	ND	ND	ND	NT	
	4/20/2000	CORDILLERAN	4	NT	2.47	0	7.8	1380	NT	0.1992	ND	ND	ND	ND	NT	
	7/17/2000	CORDILLERAN	3	NT	1.9	0	8.07	1330	NT	0.3035	ND	ND	ND	ND	NT	
	10/19/2000	CORDILLERAN	10	NT	0.27	0	6.75	1360	NT	0.154	ND	ND	ND	ND	NT	
	2/1/2001	CORDILLERAN	10	NT	0.48	0	6.67	141	NT	0.089	ND	ND	ND	ND	NT	
	4/27/2001	CORDILLERAN	3	NT	1.13	1	7.77	1380	NT	0.15	ND	ND	ND	ND	NT	
DW-04	7/8/1997	COGCC	NT	ND	NT	NT	7.22	1378	1060	ND	NT	NT	NT	NT	NA	
	9/17/1997	MAXXIM	ND	NT	NT	0.52	7.2	1335	NT	NT	NT	NT	NT	NT	NT	
	9/19/1997	COGCC	NT	ND	NT	NT	7.76	1372	1080	ND	ND	ND	ND	0.00068	NA	
	10/8/1997	BARRETT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	10/23/1997	COGCC	NT	ND	NT	NT	8.02	1100	NT	ND	ND	ND	ND	ND	NA	
	12/23/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	1/27/1998	MAXXIM	ND	NT	NT	NT	7.83	NT	NT	ND	ND	ND	ND	ND	ND	
	3/17/1998	MAXXIM	ND	NT	2.65	NT	6.86	1477	NT	ND	ND	ND	ND	ND	NT	
	4/14/1998	MAXXIM	ND	NT	2.79	NT	6.55	1541	NT	ND	ND	ND	ND	ND	NT	
	5/12/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.62	1501	NT	0.0015	ND	ND	ND	ND	NT	
	10/14/1998	MAXXIM	2	NT	NT	NT	7.59	1549	NT	0.0015	ND	ND	ND	ND	NT	
	1/19/1999	MAXXIM	NT	NT	NT	NT	6.98	1516	NT	0.002	0.00046	ND	ND	ND	NT	
	2/1/1999	TERRACON	NT	NT	NT	NT	6.36	1564	NT	ND	ND	ND	ND	ND	NT	
	3/9/1999	TERRACON	ND	NT	NT	NT	8.22	1517	NT	ND	ND	ND	ND	ND	NT	
	4/15/1999	TERRACON	ND	NT	2.72	NT	7.51	1440	NT	ND	ND	ND	ND	ND	NT	
	7/14/1999	TERRACON	ND	NT	2.83	NT	NT	1444	NT	0.0053	ND	ND	ND	ND	NT	
	10/14/1999	TERRACON	ND	NT	3.93	NT	6.94	1449	NT	ND	ND	ND	ND	ND	NT	
	2/3/2000	CORDILLERAN	ND	NT	3.81	4	7.22	1590	NT	ND	ND	ND	ND	ND	NT	
	4/20/2000	CORDILLERAN	ND	NT	5.2	10	7.18	1590	NT	ND	ND	ND	ND	ND	NT	
	7/17/2000	CORDILLERAN	ND	NT	6.7	6	7.69	1580	NT	ND	ND	ND	ND	ND	NT	
	10/19/2000	CORDILLERAN	1	NT	4.33	1	7.12	1550	NT	ND	ND	ND	ND	ND	NT	
	2/1/2001	CORDILLERAN	1	NT	4.71	1	6.8	1600	NT	ND	ND	ND	ND	ND	NT	
	4/27/2001	CORDILLERAN	ND	NT	4.46	5	7.37	1610	NT	ND	ND	ND	ND	ND	NT	
DW-05	9/17/1997	MAXXIM	ND	NT	NT	0.8	7.23	1795	NT	NT	NT	NT	NT	NT	NT	
	9/19/1997	COGCC	NT	ND	NT	NT	7.41	1479	1180	ND	ND	ND	ND	0.00051	NA	
	9/29/1997	COGCC	NT	ND	NT	CLEAR	7.29	1389	NT	ND	ND	ND	ND	ND	NA	
	10/8/1997	BARRETT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	10/22/1997	COGCC	NT	TRACE	NT	NT	7.12	1300	NT	ND	ND	ND	ND	ND	NA	
	12/23/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	0.019	ND	ND	ND	ND	ND	
	1/27/1998	MAXXIM	ND	NT	NT	NT	7.42	NT	NT	0.016	ND	ND	ND	ND	ND	
	4/13/1998	MAXXIM	ND	NT	1.82	NT	6.64	1753	NT	0.0031	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.75	1751	NT	0.0089	ND	ND	ND	ND	NT	
	10/14/1998	MAXXIM	2	NT	NT	NT	7.08	1848	NT	ND	ND	ND	ND	ND	NT	
	2/1/1999	MAXXIM	NT	NT	NT	NT	6.14	1862	NT	ND	ND	ND	ND	ND	NT	
DW-06	9/18/1997	MAXXIM	ND	NT	NT	0.98	7.24	1274	NT	ND	NT	NT	NT	NT	NT	
	9/19/1997	COGCC	NT	ND	NT	NT	7.35	1231	842	ND	ND	ND	ND	ND	NA	
	10/8/1997	BARRETT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	10/23/1997	COGCC	NT	ND	NT	NT	7.34	1010	NT	0.0002	ND	ND	ND	ND	NA	
	12/23/1997	MAXXIM	NT	NT	NT	NT	NT	NT	NT	0.0019	ND	ND	ND	ND	ND	
	1/27/1998	MAXXIM	2	NT	NT	NT	8.3	NT	NT	0.0042	ND	ND	ND	ND	ND	
	4/13/1998	MAXXIM	4	NT	2.4	NT	7.22	1394	NT	0.0028	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.88	1417	NT	0.0035	ND	ND	ND	ND	NT	
	10/14/1998	MAXXIM	ND	NT	NT	NT	8.54	1398	NT	ND	ND	ND	ND	ND	NT	

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LOCATION	DATE	SAMPLE COLLECTOR	COMBUSTIBLE GAS CONCEN. AT WELLHEAD % LEL	METHANE IN SMPL HEADSPACE (ppm)	DO (mg/L)	TURBIDITY (Ntu)	pH	CONDUCTIVITY (uS)	TOTAL DISSOLVED SOLIDS (ma/L)	METHANE IN WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUNE IN WATER (mg/l)	E.BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
LABORTORY DETECTION LIMITS			NA	NA	NA	NA	NA	NA	NA	0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS			NA	NA	NA	NA	6.5-8.5*	NA	500*	NA	0.005	1	0.68	10	NA	
	1/19/1999	MAXXIM	NT	NT	NT	NT	6.93	1428	NT	ND	ND	ND	ND	ND	NT	
DW-07	9/19/1997	COGCC	NT	ND	NT	NT	7.32	921	643	ND	ND	ND	ND	ND	NA	
	10/8/1997	BARRETT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	10/23/1997	COGCC	NT	ND	NT	NT	7	750	NT	ND	ND	ND	ND	ND	ND	
	12/23/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NA	
	1/27/1998	MAXXIM	ND	NT	NT	NT	7.3	NT	NT	ND	ND	ND	ND	ND	ND	
	4/13/1998	MAXXIM	ND	NT	5.54	NT	6.08	1046	NT	ND	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.71	975	NT	ND	ND	ND	ND	ND	NT	
	10/14/1998	MAXXIM	ND	NT	NT	NT	8.13	955	NT	ND	ND	ND	ND	ND	NT	
	1/19/1999	MAXXIM	NT	NT	NT	NT	7.9	1030	NT	ND	ND	ND	ND	ND	NT	
DW-08	9/18/1997	MAXXIM	53	NT	NT	0.43	7.27	1187	NT	7.4	ND	ND	ND	ND	NT	
	6/20/1997	COGCC	NT	68	NT	NT	7.37	1229	943	ND	ND	ND	ND	0.0018	NA	
	9/29/1997	COGCC	>100	3390	NT	NT	7.35	1132	NT	ND	ND	ND	ND	ND	NA	
	10/8/1997	BARRETT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	10/23/1997	COGCC	>100	NT	NT	NT	7.02	980	NT	0.051	ND	ND	ND	ND	NA	
	12/23/1997	MAXXIM	24	NT	NT	NT	NT	NT	NT	4.5	ND	ND	ND	ND	ND	
	1/27/1998	MAXXIM	ND	NT	NT	NT	7.67	NT	NT	0.15	ND	ND	ND	ND	ND	
	4/13/1998	MAXXIM	5	NT	2.96	NT	6.46	1429	NT	0.0018	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.89	1337	NT	0.0018	ND	ND	ND	ND	NT	
	10/13/1998	MAXXIM	ND	NT	NT	NT	7.26	1360	NT	1.4	ND	ND	ND	ND	NT	
	1/19/1999	MAXXIM	NT	NT	NT	NT	7.22	1382	NT	ND	ND	ND	ND	ND	NT	
	4/15/1999	TERRACON	ND	NT	2.98	NT	7.16	1271	NT	ND	ND	ND	ND	ND	NT	
WW-09	1/7/1998	MAXXIM	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	1/27/1998	MAXXIM	ND	NT	NT	NT	7.06	NT	NT	ND	ND	ND	ND	ND	NT	
DW-10	7/8/1997	COGCC	NT	ND	NT	NT	7.15	1100	815	ND	NT	NT	NT	NT	NT	
	9/18/1997	MAXXIM/COGCC	ND	ND	NT	1.41	7.01	1036	784	ND	ND	ND	ND	ND	NT	
	10/23/1997	COGCC	NT	ND	NT	NT	7	1040	NT	ND	ND	ND	ND	ND	NT	
	12/24/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	1/28/1998	MAXXIM	ND	NT	NT	NT	7.42	NT	NT	ND	ND	ND	ND	ND	NT	
	4/13/1998	MAXXIM	ND	NT	3.48	NT	6.8	1215	NT	ND	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.48	1173	NT	ND	ND	ND	ND	ND	NT	
	10/14/1998	MAXXIM	ND	NT	NT	NT	7.62	1147	NT	0.0047	ND	ND	ND	ND	NT	
DW-11	9/29/1997	COGCC	NT	31.7	NT	RUSTY	7.32	1060	NT	ND	ND	0.002	ND	0.0062	NA	
	10/23/1997	COGCC	NT	TRACE	NT	NT	7.4	940	NT	ND	ND	ND	ND	ND	NA	
	12/24/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	0.0017	ND	ND	ND	ND	ND	
	1/28/1998	MAXXIM	ND	NT	NT	NT	7.81	NT	NT	ND	ND	ND	ND	ND	ND	
	4/13/1998	MAXXIM	ND	NT	4.48	NT	7.03	1096	NT	0.0016	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.62	1114	NT	0.004	ND	ND	ND	ND	NT	
	10/14/1998	MAXXIM	ND	NT	NT	NT	8.01	1126	NT	0.0014	ND	ND	ND	ND	NT	
DW-12	11/24/1997	BARRETT	NA	NT	NT	NT	NT	NT	NT	NA	ND	ND	ND	ND	ND	
	12/24/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	1/27/1998	MAXXIM	ND	NT	NT	NT	7.4	NT	NT	ND	ND	ND	ND	ND	NT	
	4/13/1998	MAXXIM	ND	NT	5.9	NT	6.98	776	NT	ND	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.7	708	NT	ND	ND	ND	ND	ND	NT	
	10/13/1998	MAXXIM	ND	NT	NT	NT	7.22	721	NT	ND	ND	ND	ND	ND	NT	
DW-13	9/29/1997	COGCC	NT	407	NT	NT	7.39	629	NT	ND	ND	0.0018	ND	0.0052	NA	
	10/8/1997	BARRETT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	10/23/1997	COGCC	ND	350	NT	NT	7.18	510	NT	ND	ND	ND	ND	ND	NA	
	12/24/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	1/28/1998	MAXXIM	ND	NT	NT	NT	7.59	NT	NT	ND	ND	ND	ND	ND	ND	
	4/13/1998	MAXXIM	ND	NT	5.48	NT	6.82	696	NT	ND	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.82	715	NT	ND	ND	ND	ND	ND	NT	
	10/13/1998	MAXXIM	ND	NT	NT	NT	7.45	690	NT	ND	ND	ND	ND	ND	NT	
DW-14	1/6/1998	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	1/28/1998	MAXXIM	ND	NT	NT	NT	7.72	NT	NT	ND	ND	ND	ND	ND	NT	
	4/13/1998	MAXXIM	ND	NT	5.88	NT	7.14	980	NT	ND	ND	ND	ND	ND	NT	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.88	897	NT	ND	ND	ND	ND	ND	NT	
	10/13/1998	MAXXIM	ND	NT	NT	NT	7.47	953	NT	ND	ND	ND	ND	ND	NT	
DW-15	9/18/1997	MAXXIN/COGCC	ND	ND	NT	0.34	7.55	668	1080	ND/ND	ND	ND	ND	ND	NT	
	10/22/1997	COGCC	NT	ND	NT	NT	7.3	604	NT	ND	ND	ND	ND	ND	NT	
	12/22/1997	MAXXIM	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	4/14/1998	MAXXIM	ND	NT	6.58	NT	6.77	802	NT	ND	ND	ND	ND	ND	NT	

TABLE 1 - WILLIAMS RULISON GROUNDWATER LABORTORY RESULTS SUMMARY

LOCATION	DATE	SAMPLE COLLECTOR	COMBUSTIBLE GAS CONCEN. AT WELLHEAD % LEL	METHANE IN SMPL HEADSPACE (ppm)	DO (mg/L)	TURBIDITY (Ntu)	pH	CONDUCTIVITY (uS)	TOTAL DISSOLVED SOLIDS (ma/L)	METHANE IN WATER (mg/l)	BENZENE IN WATER (mg/l)	TOLUNE IN WATER (mg/l)	E.BENZENE IN WATER (mg/l)	XYLENE IN WATER (mg/l)	TVPH IN WATER (mg/l)	Comments
LABORATORY DETECTION LIMITS			NA	NA	NA	NA	NA	NA	NA	0.0012	0.0004	0.0004	0.0004	0.0004	0.1	
DRINKING WATER STANDARDS			NA	NA	NA	NA	6.5-8.5*	NA	500*	NA	0.005	1	0.68	10	NA	
	7/21/1998	MAXXIM	ND	NT	NT	NT	7.92	762	NT	ND	ND	ND	ND	ND	NT	
	10/13/1998	MAXXIM	ND	NT	NT	NT	7.83	788	NT	0.0026	ND	ND	ND	ND	NT	
DW-16	9/18/1997	MAXXIM	ND	NT	NT	3.35	7.91	778	NT	NT	NT	NT	NT	NT	NT	
	9/19/1997	COGCC	NT	ND	NT	NT	7.94	790	516	ND	ND	ND	ND	ND	NA	
	10/22/1997	COGCC	NT	ND	NT	NT	7.64	1210	NT	ND	ND	ND	ND	ND	NA	
	12/23/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
	4/14/1998	MAXXIM	ND	NT	8.96	NT	6.61	792	NT	ND	ND	ND	ND	ND	NT	
DW-17	9/18/1997	MAXXIM	ND	NT	NT	0.53	7.26	699	NT	NT	NT	NT	NT	NT	NT	
	9/19/1997	COGCC	NT	ND	NT	NT	7.46	692	440	ND	ND	ND	ND	ND	NA	
	10/22/1997	COGCC	NT	ND	NT	NT	7.51	620	NT	ND	ND	ND	ND	ND	NA	
	12/22/1997	MAXXIM	ND	ND	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
DW-18	1/28/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
DW-19	1/6/1998	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
DW-20	12/24/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
DW-21	11/24/1997	BARRETT	NA	NT	NT	NT	NT	NT	NT	NA	ND	ND	ND	ND	ND	
	12/23/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
DW-22	11/24/1997	BARRETT	NA	NT	NT	NT	NT	NT	NT	NA	ND	ND	ND	ND	ND	
	12/22/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
SW-23	11/23/1997	BARRETT	NA	NT	NT	NT	NT	NT	NT	NA	ND	ND	ND	ND	ND	
	12/23/1997	MAXXIM	ND	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	
SW-24	9/18/1997	MAXXIM	NT	NT	NT	3.27	7.5	783	NT	NT	NT	NT	NT	NT	NT	
	9/19/1997	COGCC	NT	ND	NT	NT	7.52	770	506	ND	ND	ND	ND	ND	NA	
SW-25	9/18/1997	MAXXIM	NT	NT	NT	0.24	7.2	640	NT	NT	NT	NT	NT	NT	NT	
	9/19/1997	COGCC	NT	ND	NT	NT	7.56	763	477	ND	ND	ND	ND	ND	NA	
	10/22/1997	COGCC	NT	ND	NT	NT	7.52	595	NT	ND	ND	ND	ND	ND	NA	
SW-26	9/18/1997	MAXXIM	NT	NT	NT	0.5	7.29	615	NT	ND	NT	NT	NT	NT	NT	
	9/19/1997	COGCC	NA	NA	NT	NA	NT	NT	NT	ND	ND	ND	ND	ND	ND	
SW-27	9/17/1997	MAXXIM	NA	NT	NT	3.75	7.8	1023	NT	NT	NT	NT	NT	NT	NT	
	9/19/1997	COGCC	NT	ND	NT	NT	7.84	1074	716	ND	ND	ND	ND	ND	ND	
DW-28	8/3/1998	MAXXIM	NT	NT	NT	NT	8.51	1670	NT	0.1	ND	ND	ND	ND	ND	
	10/13/1998	MAXXIM	42	NT	NT	NT	7.8	1682	NT	0.5	ND	ND	ND	ND	NT	
	1/19/1999	MAXXIM	NT	NT	NT	NT	7.3	1726	NT	ND	ND	ND	ND	ND	NT	
	4/15/1999	TERRACON	ND	NT	3.98	NT	7.95	1625	NT	0.22	ND	ND	ND	ND	NT	
TVPH=TOTAL VOLATILE PERTOLEUM HYDROCARBONS NT=NOT TESTED NA=NOT AVAILABEL ND=NOT DETECTED PDG=ANALYSIS IN PROGRESS, RESULTS PENDING																
*=Secondary Drinking Water Standard Laboratory Detection Limits are for undiluted samples.																