

R.T. HICKS CONSULTANTS, LTD.

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December 17, 2002

Mr. Jonathan Kniskern
Project Manager, PST Bureau
New Mexico Environmental Department
P.O. Box 26110
Santa Fe, NM 87502-6110

RE: **Quarterly Monitoring and Sampling Event, Champion Oil Site, 204 Montezuma Santa Fe, New Mexico**
Facility ID No. 5053002

Dear Mr. Kniskern:

On behalf of Champion Oil, R.T. Hicks Consultants, Ltd. (Hicks Consultants) and EnecoTech Inc. submit this Quarterly Monitoring and Sampling Report for the former Champion Oil Site located at 204 Montezuma Street, Santa Fe, New Mexico. This report represents the last sampling and reporting event required by the New Mexico Environmental Department (NMED) and approved in the EnecoTech "Revised Phase 5 Workplan" dated August 16, 2001 and approved on November 16, 2001.

This Quarterly Monitoring and Sampling report presents groundwater monitoring and analytical results from the October 5, 2002 sampling event.

Fourth Quarter 2002 Ground water Monitoring and Sampling Results

Plate 1 is a site map showing the location of the former Champion Oil Site in relation to Montezuma Avenue, Cerrillos Road, and Galisteo Street. We measured fluid levels and collected ground water samples in the three site wells. Table 1 summarizes ground water level measurements during this and previous monitoring events. Ground water flow, which is consistent with past reports, is from north to south with a hydraulic gradient of .0325 ft/ft. Ground water elevations and gradient measured for the second quarter of 2002 are very similar to the previous quarter but the potentiometric surface has dropped more than 2.5 feet in all three monitoring wells since the initial monitoring event in 1994.. Plate 2 presents a potentiometric surface map of the site.

Assaigai Analytical Laboratories (Assaigai) analyzed the ground water samples for the fourth quarter 2002 monitoring event for volatile constituents including Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, MTBE, EDC, and EDB using EPA

Method 8260. Additionally, they analyzed the samples for dissolved lead, iron, and manganese. We delivered the samples to Assaigai under strict chain of custody protocol. Table 2 summarizes analytical results for the current and past monitoring events since January 1994. Copies of the laboratory analytical reports and the chain-of-custody are provided in Appendix A.

Table 2 shows that monitoring wells MW-1 and MW-3 exhibit benzene concentrations above Water Quality Control Commission (WQCC) ground water quality standards (0.01 mg/L). Additionally, a review of previously collected data in Table 2 indicates that several organic constituents have increased since monitoring began.

Discussion and Recommendations

Based on the ground water analytical data, it appears that an off-site source of dissolved petroleum hydrocarbons is affecting ground water chemistry at the site.

Regulatory closure of the site will remain stalled until a complete evaluation of all potential offsite sources are assessed.

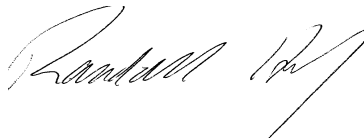
To assist in this effort, we will review the regulatory files of nearby environmental sites in an attempt to better understand the site hydrochemistry. After completing the file review, we will provide an addendum to this report with specific recommendations to move the site to closure.

If you have any questions concerning this communication, please contact me or Randall Hicks at 505-266-5004.

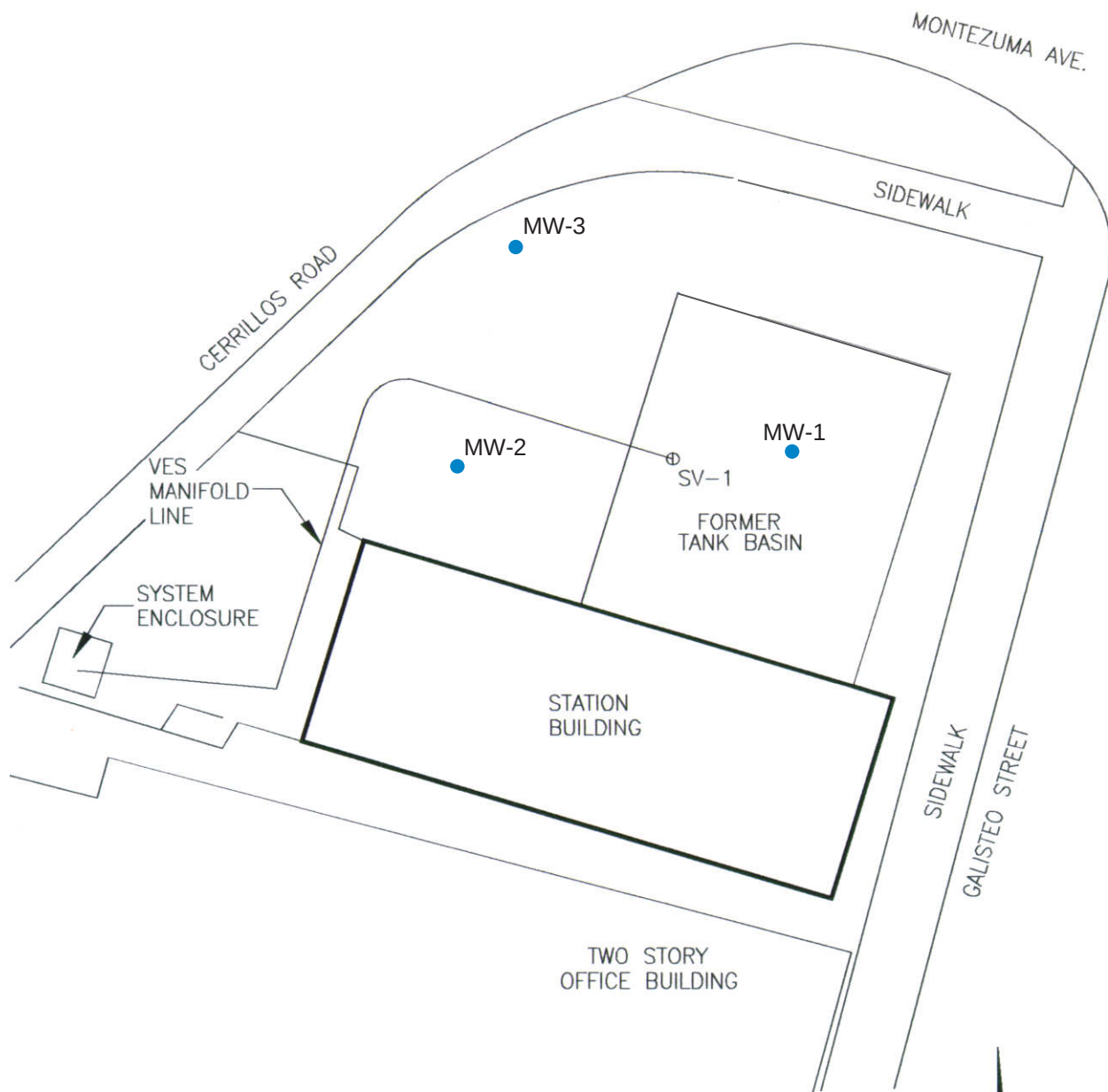
Sincerely,
R.T Hicks Consultants Ltd.,

A stylized, handwritten signature in black ink, appearing to read 'MH' or similar initials, enclosed within a faint, dotted rectangular border.

Michelle Hunter
Project Manager

A handwritten signature in black ink, appearing to read 'Randall Hicks', written in a cursive style.

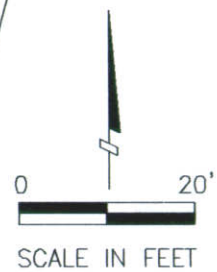
Randall Hicks
Certified Scientist #245



Legend

MW-2
● Monitoring Well Location

Map Source: Eneco Tech



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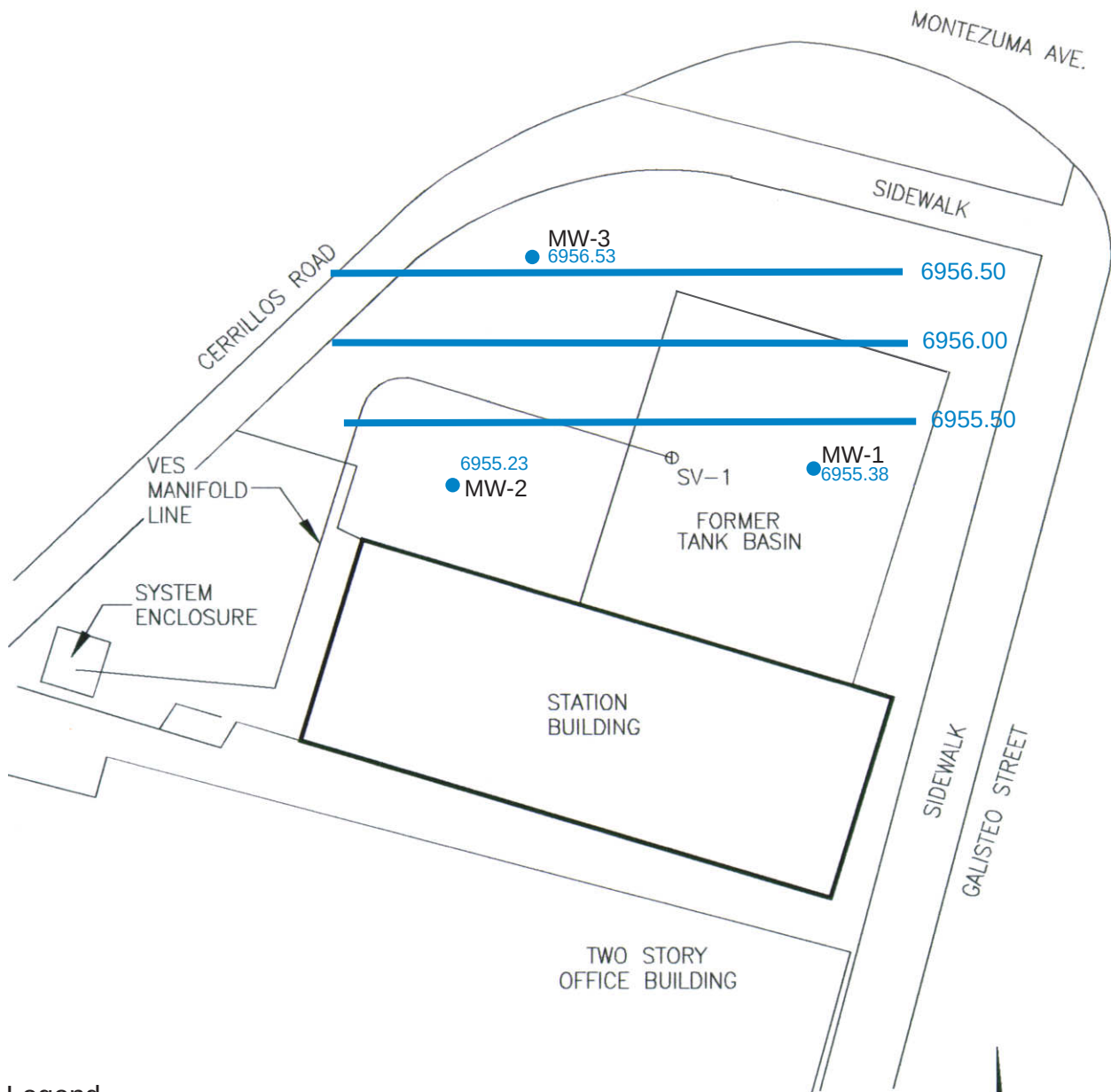
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Champion Oil

Site Map With Monitor Well Locations

Plate 1

October 2002



Legend

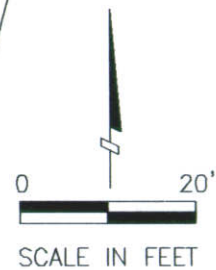
MW-2 ●
6955.23

Monitoring Well Location and
Groundwater elevation

6956.00 —

Groundwater Contour

Map Source: Eneco Tech



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Champion Oil

Potentiometric Surface Map

Plate 2

October 2002

Table 1 Groundwater Levels

Well	Date	Depth	Elevation	Well	Date	Depth	Elevation	Well	Date	Depth	Elevation
MW-1	9/22/92	21.11	6961.19	MW-2	9/22/92	23.06	6958.68	MW-3	9/22/92	22.14	6959.43
6982	1/28/94	22.32	6959.98	6981	1/28/94	23.85	6957.89	6982	1/28/94	22.65	6958.92
	2/25/94	22.69	6959.61		2/25/94	24.17	6957.57		2/25/94	22.8	6958.77
	3/21/94	22.79	6959.51		3/21/94	24.24	6957.5		3/21/94	22.88	6958.69
	4/26/94	22.67	6959.63		4/26/94	24.11	6957.63		4/26/94	22.75	6958.82
	5/19/94	22.07	6960.23		5/19/94	23.81	6957.93		5/19/94	22.36	6959.21
	6/21/94	22.08	6960.22		6/21/94	23.68	6958.06		6/21/94	22.35	6959.22
	7/25/94	22.3	6960		7/25/94	23.98	6957.76		7/25/94	22.64	6958.93
	8/30/94	21.87	6960.43		8/30/94	23.55	6958.19		8/30/94	22.36	6959.21
	9/15/94	22.14	6960.16		9/15/94	23.71	6958.03		9/15/94	22.44	6959.13
	10/12/94	22.33	6959.97		10/12/94	23.9	6957.84		10/12/94	22.55	6959.02
	11/17/94	22.4	6959.9		11/17/94	24.02	6957.72		11/17/94	22.62	6958.95
	12/6/94	22.6	6959.7		12/6/94	24.21	6957.53		12/6/94	22.77	6958.8
	1/25/95	23.08	6959.22		1/25/95	24.42	6957.32		1/25/95	22.92	6958.65
	4/12/95	23.42	6958.88		4/12/95	24.75	6956.99		4/12/95	23.12	6958.45
	5/25/95	23.31	6958.99		5/25/95	24.61	6957.13		5/25/95	22.93	6958.64
	6/26/95	NM			6/26/95	24.55	6957.19		6/26/95	22.85	6958.76
	7/27/95	23	6959.3		7/27/95	24.37	6957.37		7/27/95	22.71	6958.86
	11/7/95	22.91	6959.39		11/7/95	24.13	6957.61		11/7/95	22.73	6958.84
	1/28/96	23.84	6958.5		1/28/96	NM			1/28/96	23.18	6958.39
	10/30/96	24.42	6957.92		10/30/96	24.46	6956.7		10/30/96	24.6	6956.99
	3/6/97	23.9	6958.44		3/6/97	24.42	6956.74		3/6/97	24.42	6957.17
	6/12/97	NM			6/12/97	NM			6/12/97	NM	
	9/3/97	22.29	6960.05		9/3/97	22.48	6958.68		9/3/97	22.2	6959.39
	1/6/98	22.9	6959.44		1/6/98	23.08	6958.08		1/6/98	22.71	6958.88
	3/26/98	23.42	6958.92		3/26/98	23.18	6957.98		3/26/98	22.61	6958.98
	11/20/98	22.1	6960.24		11/20/98	22.33	6958.83		11/20/98	22.24	6959.35
	2/18/99	23.41	6958.93		2/18/99	23.38	6957.78		2/18/99	23.86	6957.73
	5/5/99	23.75	6958.59		5/5/99	23.79	6957.37		5/5/99	23.83	6957.76
	8/10/99	22	6960.34		8/10/99	22.3	6958.86		8/10/99	NM	
	3/9/00	24.2	6958.14		3/9/00	23.75	6957.41		3/9/00	23.79	6957.8
	6/14/00	24.78	6957.56		6/14/00	24.56	6956.6		6/14/00	23.67	6957.92
	9/6/00	23.2	6959.14		9/6/00	23.78	6957.38		9/6/00	23.9	6957.69
	12/12/00	23.71	6958.63		12/12/00	24.02	6957.14		12/12/00	22.98	6958.61
	3/29/01	24.47	6957.87		3/29/01	23.45	6957.71		3/29/01	21.87	6959.72
	12/5/01	24.33	6958.01		12/5/01	25.97	6955.19		12/5/01	24.26	6957.33
	3/4/02	25.86	6956.48		3/4/02	25.33	6955.83		3/4/02	24.51	6957.08
	6/3/02	26.67	6955.67		6/3/02	25.86	6955.3		6/3/02	25.34	6956.25
	10/5/02	26.62	6955.38		10/5/02	25.77	6955.23		10/5/02	25.47	6956.53

N - well not measured

Table 2- Ground Water Analytical Results

Well	Date	Benzene	Toluene	EB	Xylenes	TPH	EDB	EDC	MTBE
MW-1	1/27/94	0	0.9	0	5.8	2.1	0	0	0
	4/26/94	0.3	0	0	1.4	2.3	0	0	0
	7/25/94	0	0	0	0.6	1	0	0	0
	10/12/94	0	0	0	0	0	0	0	NA
	1/25/95	0	0	0	0	1.6	0	0	0
	4/12/95	0	0	0	0	0.75	0	0	NA
	7/27/95	0.66	0	0.73	1.6	1.47	0	0	NA
	11/7/95	0	0	0	0	0	0	0	NA
	1/28/96	0	0	0	0	3	0	0	NA
	10/30/96	6.2	0.7	0	2.8	0.71	0	0	NA
	3/6/97	225	29.6	19.6	46.9	8.51	0.03	2.2	NA
	9/3/97	4.1	ND	ND	ND	NA	ND	ND	NA
	3/26/98	4.3	ND	ND	ND	ND	ND	ND	NA
	11/20/98	0.8	<0.5	<0.5	0.5	NA	<0.01	<0.5	NA
	2/18/99	22.6	<0.5	<0.5	<0.5	NA	<0.01	<0.5	NA
	5/5/99	29.9	<0.5	<0.5	<0.5	NA	0.06	<0.5	NA
	8/10/99	<0.5	<0.5	<0.5	<0.5	NA	0.1	<0.5	NA
	3/9/00	330	16.5	8.4	13.7	NA	<0.1	<0.5	NA
	6/14/00	51.2	0.6	<0.5	<0.5	NA	<0.1	<0.5	NA
	9/6/00	1.4	<0.5	<0.5	<0.5	NA	<0.1	<0.5	NA
	12/12/00	79.9	6.2	2.4	8.4	NA	<0.01	<0.5	NA
	3/29/01	857	511	81.9	335	NA	<0.1	<0.5	NA
	12/5/01	205	22.1	35.4	38.9	NA	<0.5	3.8	NA
	3/4/02	128	14	17.4	28.4	NA	<0.5	3.6	NA
	6/3/02	<0.5	1.4	<0.5	2.2	NA	<0.5	<0.5	NA
	10/7/02	230	22	4.1	19.4	NA	ND	1.7	ND
MW-2	1/27/94	0	0	0	0	0	0	0	0
	4/26/94	0	0	0	0	0	0	0	0
	7/25/94	0	0	0	0	0	0	0	0
	10/12/94	0	0	0	0	0	0	0	NA
	1/25/95	0	0	0	0	0	0	0	0
	4/12/95	0	0	0	0	0	0	0	NA
	7/27/95	0	0	0	0	0	0	0	NA
	11/7/95	0	0	0	0	0	0	0	NA
	1/28/96	NS	NS	NS	NS	NS	NS	NS	NS
	10/30/96	0	0	0	0	0	0	0	NA
	3/6/97	0	0	0	0	0	0	0	NA
	9/3/97	0.9	ND	ND	ND	NA	ND	ND	NA
	3/26/98	311	6.5	ND	5.7	ND	3	12.5	NA
	11/20/98	324	2.5	<0.5	2.3	NA	<0.01	12.1	NA
	2/18/99	155	1.3	0.7	8.2	NA	<0.01	<0.5	NA
	5/5/99	12.8	1.3	<0.5	0.9	NA	<0.01	<0.5	NA
	8/10/99	17.9	<0.5	1.5	0.9	NA	<0.01	<0.5	NA
	3/9/00	<0.5	<0.5	<0.5	<0.5	NA	<0.1	<0.5	NA

	6/14/00	<0.5	<0.5	<0.5	<0.5	NA	<0.1	<0.5	NA
	9/6/00	16.2	<0.5	<0.5	<0.5	NA	<0.1	<0.5	NA
	12/12/00	51.3	<0.5	<0.5	<0.5	NA	<0.01	<0.5	NA
	3/29/01	10.4	<0.5	<0.5	<0.5	NA	4.2	<0.5	NA
	12/5/01	<0.5	<0.5	<0.5	<0.5	NA	<0.5	1.9	NA
	3/4/02	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA
	6/3/02	<0.5	<0.5	<0.5	<0.5	NA	<0.5	1	NA
	10/7/02	ND	ND	ND	ND	NA	ND	ND	ND
MW-3	1/27/94	8	8	34	470	8.9	0	0	0
	4/26/94	0	0	20	390	20	0	0	0
	7/25/94	11	7	14	480	8.8	0	0	0
	10/12/94	10.6	10.1	16.5	238	4.17	0	0	NA
	1/25/95	9.6	11.8	41.8	292	9.4	0	0	0
	4/12/95	15.1	21.1	18.3	156	8.2	0	0	NA
	7/27/95	11.2	7.7	28.5	117	7.02	0	0	NA
	11/7/95	4.7	2.6	12.1	33.9	7.39	0	0	NA
	1/28/96	13.9	6	27.3	58.9	4.74	0	0	NA
	10/30/96	24.3	2.8	6.1	31.1	1.41	0.6	1.4	NA
	3/6/97	6.3	1.2	4.1	14.1	1.39	ND	ND	NA
	9/3/97	5.4	0.9	4	9.6	NA	ND	ND	NA
	3/26/98	6.3	ND	4.4	3.1	2.37	ND	ND	NA
	11/20/98	8.8	10.6	3.7	18.6	NA	<0.01	<0.5	NA
	2/18/99	<0.5	<0.5	<0.5	<0.5	NA	<0.01	<0.5	NA
	5/5/99	32.2	5.2	8.5	11.5	NA	0.5	<0.5	NA
	8/10/99	NS	NS	NS	NS	NS	NS	NS	NS
	3/9/00	71.7	17.2	20.7	5.3	NA	<0.1	<0.5	NA
	6/14/00	59.2	19.3	2.1	2.9	NA	<0.1	<0.5	NA
	9/6/00	78.7	9.1	4.4	7.7	NA	<0.1	<0.5	NA
	12/12/00	37.7	5	9	14	NA	<0.01	<0.5	NA
	3/29/01	241	29.9	25.2	118	NA	<0.1	<0.5	NA
	12/5/01	251	74.2	93.7	78.9	NA	<0.5	1.5	NA
	3/4/02	340.7	20.8	17.8	12.3	NA	<0.5	3.6	NA
	6/3/02	394	876	103	1289	NA	<0.5	3.3	NA
	10/7/02	2700	14000	1800	14200	NA	13	ND	ND

Notes: BTEX, EDB, EDC, and MTBE results reported in units of micrograms per liter.

TPH results reported in units of milligrams per liter (mg/L).

ND - constituent Not Detected at or above method detection limit.

<0.5 - constituent not detected in a concentration greater than the method detection limit as shown.

NA - constituent Not Analyzed.

NS - well Not Sampled

EB - ethylbenzene

Table 3
Summary of Detected Volatile Gasoline-Range Hydrocarbons Analyses

Sample	Date	Isopropylbenzene (µg/L) ¹	1,3,5 - Trimethylbenzene (µg/L)	1,2,4- Trimethylbenzene (µg/L)	tert-Butyl benzene (µg/L)	sec-Butyl benzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butyl benzene (µg/L)	Naphthalene (µg/L)	N-Propyl benzene (µg/L)	1,2 Dichloropropane (µg/L)
MW-1	12/5/01	6.5	2.6	54	6.2	4.7	1.9	4.9	35.3	7.5	<0.5
	3/4/02	6.1	2.4	40.6	<0.5	5.1	<0.5	5.6	19.3	4.5	<0.5
	6/3/02	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	10/7/02	NA	1.4	20	NA	NA	NA	NA	14	NA	ND
MW-2	12/5/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/4/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/3/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	10/7/02	NA	ND	ND	NA	NA	NA	NA	ND	NA	ND
MW-3	12/5/01	26.6	2.1	199	22.2	12.5	10.8	21.5	110	50	<0.5
	3/4/02	10.1	3.7	45	<0.5	6.4	6.4	9.4	<0.5	12.7	<0.5
	6/3/02	15.1	148	428	<0.5	9.5	28.7	9.2	148	28.6	1
	10/7/02	NA	850	3100	NA	NA	NA	NA	950	NA	ND
NMGAL ²		NL ³	NL	NL	NL	NL	NL	NL	30	NL	NL

Notes:

¹µg/L - microgram per Liter

²NMGAL - New Mexico Groundwater Action Level

³NL - not listed in the New Mexico Groundwater action Levels list

Samples analyzed by EPA Method 8260

This list contains constituents detected in at least one monitoring well

NA-Not Analyzed

Table 4
Summary of Dissolved Metals Analyses

Well	Date	Dissolved Iron mg/L ¹	Dissolved Manganese mg/L	Dissolved Lead mg/L
MW-1	12/5/01	2.11	1.98	0.007
	3/4/02	<0.007	1.7	<0.003
	10/7/02	0.42	1.37	ND
MW-2	12/5/01	0.164	0.284	0.006
	3/4/02	<0.007	0.049	<0.003
	10/7/02	ND	0.05	ND
MW-3	12/5/01	1.64	2.14	0.007
	3/4/02	<0.007	2.06	<0.003
	10/7/02	0.06	2.89	ND

ND- Not Detected

mg/L=Milligrams per Liter

Appendix A-Analytical Results

RT HICKS CONSULTING. LTD
attn ANDREW PARKER
4665 INDIAN SCHOOL NE 106
ALBUQUERQUE NM 87110

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

STANDARD

Assaigai Analytical Laboratories, Inc.
Certificate of Analysis

Client: RT HICKS CONSULTING, LTD
Project: CHAMPION
Order: 0210190 RTHC01 Receipt: 10-07-02

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: MW-3 Collected: 10-05-02 12:22:00 By: AP
Matrix: AQ

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0210190-01A		SW846 8260B Purgeable VOCs by GC/MS						By: JAA		
X02457	XG.2002.1661.10	75-34-3	1,1 Dichloroethane	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	75-35-4	1,1 Dichloroethene	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	71-55-6	1,1,1 Trichloroethane	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	79-00-5	1,1,2 Trichloroethane	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	106-93-4	1,2 Dibromoethane (EDB)	13	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	95-50-1	1,2 Dichlorobenzene	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	78-87-5	1,2 Dichloropropane	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	96-18-4	1,2,3 Trichloropropane	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.12	95-63-6	1,2,4-Trimethylbenzene	3100	ug / L	50	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	541-73-1	1,3 Dichlorobenzene	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	108-67-8	1,3,5-Trimethylbenzene	850	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	5	10		10-11-02	10-11-02
X02457	XG.2002.1661.10	106-46-7	1,4 Dichlorobenzene	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	90-12-0	1-Methylnaphthalene	220	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	78-93-3	2-Butanone (MEK)	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	591-78-6	2-Hexanone (MBK)	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.12	91-57-6	2-Methylnaphthalene	1000	ug / L	50	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	67-64-1	Acetone	ND	ug / L	5	10		10-11-02	10-11-02
X02457	XG.2002.1661.10	107-02-8	Acrolein	ND	ug / L	5	20		10-11-02	10-11-02
X02457	XG.2002.1661.10	107-13-1	Acrylonitrile	ND	ug / L	5	20		10-11-02	10-11-02

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Collected: 10-05-02 12:22:00 By: AP

Matrix: **AQ**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0210190-01A		SW846 8260B Purgeable VOCs by GC/MS						By: JAA		
X02457	XG.2002.1661.12	71-43-2	Benzene	2700	ug / L	50	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	75-27-4	Bromodichloromethane	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	75-25-2	Bromoform	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	74-83-9	Bromomethane	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	75-15-0	Carbon disulfide	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	56-23-5	Carbon tetrachloride	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	108-90-7	Chlorobenzene	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	124-48-1	Chlorodibromomethane	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	75-00-3	Chloroethane	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	67-66-3	Chloroform	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	74-87-3	Chloromethane	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	156-59-2	cis-1,2 dichloroethene	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10		cis-1,3 Dichloropropene	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	74-95-3	Dibromomethane	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	97-63-2	Ethyl methacrylate	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.12	100-41-4	Ethylbenzene	1800	ug / L	50	1		10-11-02	10-11-02
X02457	XG.2002.1661.10		Freon 113	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	75-71-8	Freon 12	ND	ug / L	5	10		10-11-02	10-11-02
X02457	XG.2002.1661.10	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	75-09-2	Methylene chloride	ND	ug / L	5	10		10-11-02	10-11-02
X02457	XG.2002.1661.10	91-20-3	Naphthalene	950	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.12	95-47-6	o-Xylene	4200	ug / L	50	1		10-11-02	10-11-02
X02457	XG.2002.1661.12	108-38-3/106-42	p/m-Xylenes	10000	ug / L	50	2		10-11-02	10-11-02
X02457	XG.2002.1661.10	100-42-5	Styrene	19	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	156-60-5	t-1,2 Dichloroethene	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.14	108-88-3	Toluene	14000	ug / L	100	1		10-14-02	10-14-02
X02457	XG.2002.1661.10	79-01-6	Trichloroethene	ND	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.10	75-69-4	Trichlorofluoromethane	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	108-05-4	Vinyl acetate	ND	ug / L	5	5		10-11-02	10-11-02
X02457	XG.2002.1661.10	75-01-4	Vinyl chloride	ND	ug / L	5	5		10-11-02	10-11-02

0210190-01B**EPA 4.1.1/200.7 ICP**

By: CWJ

M021374	MT.2002.1181.62	7439-89-6	Iron, dissolved	0.06	mg / L	1	0.05	1	10-07-02	10-09-02
M021374	MT.2002.1181.62	7439-92-1	Lead, dissolved	ND	mg / L	1	0.06	1	10-07-02	10-09-02
M021374	MT.2002.1181.62	7439-96-5	Manganese, dissolved	2.89	mg / L	1	0.01	1	10-07-02	10-09-02

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Collected: 10-05-02 12:43:00 By: AP

Matrix: **AQ**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0210190-02A		SW846 8260B Purgeable VOCs by GC/MS						By: JAA		
X02457	XG.2002.1661.8	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	95-63-6	1,2,4-Trimethylbenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	108-67-8	1,3,5-Trimethylbenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		10-11-02	10-11-02
X02457	XG.2002.1661.8	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	90-12-0	1-Methylnaphthalene	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	78-93-3	2-Butanone (MEK)	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	91-57-6	2-Methylnaphthalene	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	67-64-1	Acetone	ND	ug / L	1	10		10-11-02	10-11-02
X02457	XG.2002.1661.8	107-02-8	Acrolein	ND	ug / L	1	20		10-11-02	10-11-02
X02457	XG.2002.1661.8	107-13-1	Acrylonitrile	ND	ug / L	1	20		10-11-02	10-11-02
X02457	XG.2002.1661.8	71-43-2	Benzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	75-27-4	Bromodichloromethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	75-25-2	Bromoform	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	74-83-9	Bromomethane	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	75-15-0	Carbon disulfide	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	108-90-7	Chlorobenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	75-00-3	Chloroethane	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	67-66-3	Chloroform	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	74-87-3	Chloromethane	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8		cis-1,3 Dichloropropene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	74-95-3	Dibromomethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	100-41-4	Ethylbenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8		Freon 113	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	75-71-8	Freon 12	ND	ug / L	1	10		10-11-02	10-11-02
X02457	XG.2002.1661.8	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		10-11-02	10-11-02

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Collected: 10-05-02 12:43:00 By: AP

Matrix: **AQ**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0210190-02A		SW846 8260B Purgeable VOCs by GC/MS						By: JAA		
X02457	XG.2002.1661.8	75-09-2	Methylene chloride	ND	ug / L	1	10		10-11-02	10-11-02
X02457	XG.2002.1661.8	91-20-3	Naphthalene	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	95-47-6	o-Xylene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	108-38-3/106-42	p/m-Xylenes	ND	ug / L	1	2		10-11-02	10-11-02
X02457	XG.2002.1661.8	100-42-5	Styrene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	108-88-3	Toluene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	79-01-6	Trichloroethene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.8	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	108-05-4	Vinyl acetate	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.8	75-01-4	Vinyl chloride	ND	ug / L	1	5		10-11-02	10-11-02

0210190-02B**EPA 4.1.1/200.7 ICP**

By: CWJ

M021374	MT.2002.1181.61	7439-89-6	Iron, dissolved	ND	mg / L	1	0.05	1	10-07-02	10-09-02
M021374	MT.2002.1181.61	7439-92-1	Lead, dissolved	ND	mg / L	1	0.06	1	10-07-02	10-09-02
M021374	MT.2002.1181.61	7439-96-5	Manganese, dissolved	0.05	mg / L	1	0.01	1	10-07-02	10-09-02

Sample: **MW-1**

Collected: 10-05-02 12:33:00 By: AP

Matrix: **AQ**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0210190-03A		SW846 8260B Purgeable VOCs by GC/MS						By: JAA		
X02457	XG.2002.1661.9	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	107-06-2	1,2 Dichloroethane (EDC)	1.7	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	95-63-6	1,2,4-Trimethylbenzene	20	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	108-67-8	1,3,5-Trimethylbenzene	1.4	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		10-11-02	10-11-02
X02457	XG.2002.1661.9	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	90-12-0	1-Methylnaphthalene	ND	ug / L	1	5		10-11-02	10-11-02

Assaigai Analytical Laboratories, Inc.

Certificate of AnalysisClient: **RT HICKS CONSULTING, LTD**Project: **CHAMPION**Order: **0210190 RTHC01** Receipt: **10-07-02**Sample: **MW-1**

Collected: 10-05-02 12:33:00 By: AP

Matrix: **AQ**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0210190-03A		SW846 8260B Purgeable VOCs by GC/MS						By: JAA		
X02457	XG.2002.1661.9	78-93-3	2-Butanone (MEK)	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	91-57-6	2-Methylnaphthalene	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	67-64-1	Acetone	ND	ug / L	1	10		10-11-02	10-11-02
X02457	XG.2002.1661.9	107-02-8	Acrolein	ND	ug / L	1	20		10-11-02	10-11-02
X02457	XG.2002.1661.9	107-13-1	Acrylonitrile	ND	ug / L	1	20		10-11-02	10-11-02
X02457	XG.2002.1661.11	71-43-2	Benzene	230	ug / L	5	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	75-27-4	Bromodichloromethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	75-25-2	Bromoform	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	74-83-9	Bromomethane	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	75-15-0	Carbon disulfide	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	108-90-7	Chlorobenzene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	75-00-3	Chloroethane	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	67-66-3	Chloroform	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	74-87-3	Chloromethane	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9		cis-1,3 Dichloropropene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	74-95-3	Dibromomethane	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	100-41-4	Ethylbenzene	4.1	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9		Freon 113	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	75-71-8	Freon 12	ND	ug / L	1	10		10-11-02	10-11-02
X02457	XG.2002.1661.9	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	75-09-2	Methylene chloride	ND	ug / L	1	10		10-11-02	10-11-02
X02457	XG.2002.1661.9	91-20-3	Naphthalene	14	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	95-47-6	o-Xylene	7.4	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	108-38-3/106-42	p/m-Xylenes	13	ug / L	1	2		10-11-02	10-11-02
X02457	XG.2002.1661.9	100-42-5	Styrene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	108-88-3	Toluene	22	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	79-01-6	Trichloroethene	ND	ug / L	1	1		10-11-02	10-11-02
X02457	XG.2002.1661.9	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	108-05-4	Vinyl acetate	ND	ug / L	1	5		10-11-02	10-11-02
X02457	XG.2002.1661.9	75-01-4	Vinyl chloride	ND	ug / L	1	5		10-11-02	10-11-02
0210190-03B		EPA 4.1.1/200.7 ICP						By: CWJ		
M021374	MT.2002.1181.58	7439-89-6	Iron, dissolved	0.42	mg / L	1	0.05	1	10-07-02	10-09-02
M021374	MT.2002.1181.58	7439-92-1	Lead, dissolved	ND	mg / L	1	0.06	1	10-07-02	10-09-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **RT HICKS CONSULTING, LTD**
 Project: **CHAMPION**
 Order: **0210190 RTHC01** Receipt: **10-07-02**

Sample: **MW-1** Collected: **10-05-02 12:33:00** By: **AP**
 Matrix: **AQ**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0210190-03B		EPA 4.1.1/200.7 ICP						By: CWJ		
M021374	MT.2002.1181.58	7439-96-5	Manganese, dissolved	1.37	mg / L	1	0.01	1	10-07-02	10-09-02

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

¹ Filtered past EPA recommended time of 24 hours.