Converse Consultants
Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

May 16, 2003

00-43367-04

MAY 16 2003
ENVIRONMENTAL ENGINEERING
LAS VEGAS OFFICE

Maryland Square Shopping Center Limited
Liability Company/Herman Kishner Trust
c/o Mr. Paul Lal
Dickerson, Dickerson, Consul & Pocker
Rainbow Corporate Center, Suite 350
777 North Rainbow Boulevard
Las Vegas, NV 89107

Subject: **Additional Soil and Groundwater Investigation**
Maryland Square Shopping Center
3661 South Maryland Parkway
Las Vegas, Nevada

Dear Mr. Lal:

Converse Consultants (Converse) is pleased to submit this *Additional Soil and Groundwater Investigation* report for the subject site. The purpose of the investigation was to further delineate the vertical extent of tetrachloroethene (PCE) contamination at the site, investigate locations of sewer lines, and to commence quarterly groundwater monitoring of on-site and off-site monitoring wells. The scope of work for this project was requested by the Nevada Division of Environmental Protection (NDEP) in their letters dated December 9, 2002 and April 2, 2003.

Site Description

The site is located at 3661 South Maryland Parkway at the northwest corner of Maryland Parkway and Twain Avenue in Las Vegas, Clark County, Nevada. It is located in the Southeast ¼ of the Northeast ¼ of Section 15, Township 21 South, Range 61 East. A portion of the site is currently developed as a strip shopping center and a portion of the site

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is being developed as a school. Please refer to Drawing No. 1 for the subject site location.

Background

On August 9, 2000, subsurface soil and water conditions were investigated along the eastern boundary of the subject site by drilling one (1) soil boring and converting it into a monitoring well (MW-1). Water samples collected from MW-1 on August 14, 2000 revealed that PCE concentrations in the groundwater at the subject site exceeded the established USEPA maximum contamination level (MCL) for PCE in drinking water. Currently the MCL for PCE in drinking water is 5 ug/l or parts per billion (ppb).

On October 2 and 3, 2000, downgradient subsurface soil and water conditions were investigated by drilling five (5) additional soil borings in the vicinity of the Boulevard Mall parking garage and converting the borings into monitoring wells (MW-2 through MW-6). Water samples collected from these wells on October 5, 2000 revealed concentrations of PCE and trichloroethene (TCE) in the groundwater, which exceeded their established MCLs. Currently the MCL for TCE in drinking water is 5 ppb.

On August 22, 2001, Converse completed an A-K Evaluation for the subject site, which revealed twenty (20) potential sources of potable water in the section (Section 15) where the subject site is located. Thirty-four (34) potential sources of potable water exist in Section 14, which is downgradient of the subject site.

On May 14, 2002 subsurface soil conditions beneath the premises currently leased by Al Phillips The Cleaners, in the subject building were explored by installing five (5) soil borings (B-1 through B-5). Soil samples collected from these borings revealed concentrations of PCE in the soil that exceeded the Preliminary Remediation Goal (PRG).

On September 19 and 20, 2002, subsurface soil and water conditions were investigated by drilling six (6) additional soil borings (three on-site and three off-site) and converting the borings into monitoring wells (MW-7 through MW-12). Water samples collected from these wells on

September 24, 2002 revealed concentrations of PCE in the groundwater that exceeded the MCL for PCE.

Drilling and Groundwater Well Installation

On May 6, 2003, one (1) soil boring was drilled downgradient of the subject site, and the boring was converted into a monitoring well (MW-13). Monitoring well MW-13 is located on the western portion of the adjacent property (Boulevard Mall) to the north of monitoring well MW-2. Please refer to Drawing No. 2 for the well locations.

Drilling was accomplished with a truck-mounted hollow stem auger drill rig. Monitoring well MW-13 was drilled to an approximate depth of 29 feet below ground surface (bgs). A continuous log of the subsurface conditions as encountered in the exploration was recorded at the time of drilling by a Converse Geologist and visually classified in accordance with the Unified Soil Classification System. A soil sample was collected from the boring in order to characterize the soil for disposal purposes. The soil sample was analyzed for volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), and 8 RCRA metals. A copy of the laboratory report is included in Appendix A.

A groundwater well was constructed in boring MW-13 by installing 2-inch diameter PVC slotted screen from the bottom of the soil boring to 9 feet bgs with blank PVC from the slotted terminus to the surface. Silica sand was used to infill the space between the screened piping and the borehole, and was extended from the maximum depth to approximately 1 foot above the screen terminus. A bentonite seal was placed above the sand. The well was finished by infilling with neat cement. A seven-inch diameter manhole equipped with a metal cover was installed on the well flush with the surrounding pavement. A lockable well cap was also installed on the well.

Groundwater Sample Results

Monitoring well MW-13 was developed on May 6, 2003. The well was developed by pumping several well volumes of water out of the well to remove sediment and allow flow of representative formation groundwa-

ter into the well. On May 7, 2003, a minimum of 3 well volumes of water was purged from monitoring wells MW-1 through MW-13 to allow sampling of representative groundwater. Groundwater samples were collected from each of the monitoring wells on May 7, 2003. Each of the groundwater samples was collected in sterilized 40-ml glass vials, capped with teflon-lined lids, labeled, and placed in an insulated container where they were maintained on ice.

The groundwater samples were submitted to Alpha Analytical, Inc. of Sparks, Nevada in accordance with EPA protocol under chain-of-custody. The samples were analyzed using EPA Method 8260 for VOCs. The table below presents the results of the most current analyses. Historical analytical data is presented in Table 1 at the end of this report.

Groundwater Sample Analysis – May 7, 2003

Well No.	PCE	TCE	Cis-1,2-Dichloroethene	Vinyl Chloride
MW-1	870	<10 ND	ND	<10 ND
MW-2	1,400	<20 ND	ND	<20 ND
MW-3	6.9	<1 ND	ND	<1 ND
MW-4	24	<1 ND	ND	<1 ND
MW-5	240	<5 ND	ND	<5 ND
MW-6	710	22	ND	<10 ND
MW-7	1.7	<1 ND	ND	<1 ND
MW-8	3.2	<1 ND	ND	<1 ND
MW-9	59	<1 ND	ND	<1 ND
MW-10	<1 ND	<1 ND	ND	<1 ND
MW-11	<10 ND	<10 ND	ND	<10 ND
MW-12	1.3	<1 ND	ND	<1 ND
MW-13	2,100	<30 ND	ND	<30 ND
MCL	5	5	70	2

ND – No detectable levels
Contaminants reported as micrograms per liter (ug/L) or parts per billion (ppb)
MCL – Maximum Contamination Level in ppb

Copies of the laboratory reports are included in Appendix A.

The following table presents the groundwater elevation data collected during this investigation. Historical elevation data is presented in Table 2 at the end of this report.

Groundwater Elevation Data – May 7, 2003

Well No.	T.O.C. Elevation (feet)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet)
MW-1	1992.04	18.70	1973.34
MW-2	1983.99	17.15	1966.84
MW-3	1984.46	17.70	1966.76
MW-4	1989.87	18.71	1971.16
MW-5	1989.18	17.80	1971.38
MW-6	1989.01	18.87	1970.31
MW-7	1990.28	16.60	1973.68
MW-8	1994.25	19.50	1974.75
MW-9	1992.26	19.15	1973.11
MW-10	1983.81	18.65	1965.16
MW-11	1980.24	24.25	1955.99
MW-12	1996.59	15.02	1981.57
MW-13	1984.23	17.25	1966.98

Depth to groundwater in the monitoring wells averages approximately 18.4 feet below the ground surface. The groundwater flow on-site appears to vary from northeast to southeast. The regional trend and the off-site groundwater flow are to the east/southeast with an approximate gradient of 0.019 feet per foot.

Sanitary Sewer Location/Map Review

Converse contacted the Clark County Department of Public Works in regards to a sanitary sewer map for the subject site. Due to the age of the subject property, a map was not available for review.

Converse visited the subject site on April 28, 2003 to observe the locations of sanitary sewer cleanouts and any sanitary sewer manholes on the subject property. At that time, it was discovered that the location of the sanitary sewer line for the subject site building had already located and was marked on the asphalt in white paint. The sanitary sewer cleanouts are located in the rear of the building. Individual lines from the cleanouts merge into one common line which runs to the west, then turns southerly, and then turns easterly terminating into Maryland Parkway. Please refer to Drawing No. 2 for the approximate sanitary sewer line location.

Discussion of Findings

The USEPA has established MCLs for certain compounds in drinking water. Currently the MCL for PCE in drinking water is 5 ppb. During the most recent sampling event, eight (8) groundwater samples collected revealed a PCE level that exceeds the MCL. The highest PCE concentration was observed in monitoring well MW-13, which is located on the Boulevard Mall property. The current MCL for trichloroethene (TCE) is 5 ppb. The groundwater sample collected from MW-6 had a TCE level that exceeds the MCL. None of the groundwater samples collected from the remaining five wells exceeded the MCL for PCE or TCE. PCE is a common dry cleaning solvent. TCE, cis-1,2-dichloroethene, and vinyl chloride are common daughter products related to degradation of the PCE. It should be noted that vinyl chloride is an end member daughter product and is considered carcinogenic.

Chloroform was detected in the groundwater samples collected from MW-3, MW-4, MW-7, MW-8, and MW-12 at concentrations ranging from 3.0 ppb to 6.3 ppb. The current MCL for chloroform is 100 ppb. Chloroform is commonly associated with laboratory cross contamination or chlorination of municipal drinking water, and likely does not represent a release of this compound.

A number of VOC compounds that are commonly associated with a petroleum release were detected in monitoring well MW-11. This likely represents a separate release that is not from the subject site since no petroleum products were found on-site or in the monitoring wells directly downgradient of the subject site. In addition, m,p-xylene was

detected in monitoring well MW-9 at a concentration of 1.1 ppb. The current MCL for total xylenes is 10,000 ppb. Xylenes are commonly associated with a petroleum release. The m,p-xylene in monitoring well MW-9 is likely anomalous because there is no known historical use of petroleum products on the subject site.

Based on this investigation and previous investigations, monitoring wells MW-1, MW-2, MW-5, MW-6, MW-9, and MW-13 have the highest concentrations of PCE. These wells are located in the area directly downgradient of the dry cleaning facility, which contained high concentrations of PCE in the soil beneath the building slab.

Conclusions

Based on the data presented in this report, we present the following conclusions:

1. PCE concentrations exceed current regulatory standards in eight of the monitoring wells associated with the subject site. The highest PCE concentration was observed in monitoring well MW-13, which is located on the Boulevard Mall property.

2. The groundwater flow direction at the subject site is to the east/southeast.

3. Except for the northern extent of the plume off-site, the extent of the contamination appears to be adequately defined.

4. Currently there are drums containing borehole soil cuttings and groundwater from well development and sampling activities stored on the subject property.

5. Based on the information provided in this report and previous reports, it appears that the source of the PCE contamination originates at the Al Phillips The Cleaners, Inc.'s dry cleaning facility.

Recommendations

Based on our investigations and conclusions presented herein, we make the following recommendations.

1. The NDEP is requiring a workplan for corrective action at the site be prepared. Converse is proceeding with preparation of this document.

2. One additional well should be installed north of the Boulevard Mall parking garage (northwest of MW-13) and to the east of MW-13.

3. Converse recommends continued quarterly monitoring and sampling of the monitoring wells at the site.

Limitations

The conclusions presented in this report are professional opinions based on the data described in this report. They are intended only for the purpose, site location and project indicated. The conclusions presented in this report are based on the assumption that conditions do not deviate from those observed during our study, as described in this report. No other warranty is either expressed or implied.

Conclusions and recommendations in this report are based on the sampling and testing completed for the stated scope of work. Sampling and testing locations are intended to confirm the presence or absence of target contaminants at selected locations. Contaminant levels observed may not be the highest levels present at the site. It is not the intent of this study to perform exploration to detect other contaminants. Observed contaminants may change with relation to time, on-site activities, and adjacent site activities. This report represents information only to the specific time in which it was collected.

Certified Environmental Manager (CEM) Statement

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations, and ordinances.

We appreciate the opportunity to continue providing our environmental services for you. Should you have any questions regarding this report, please contact us at your earliest convenience.

Respectfully submitted,

CONVERSE CONSULTANTS

Andrea L. Moericke

Andrea L. Moericke
Senior Project Manager
Nevada CEM 1754 (Exp. 3/1/05)
Dated 5/16/03

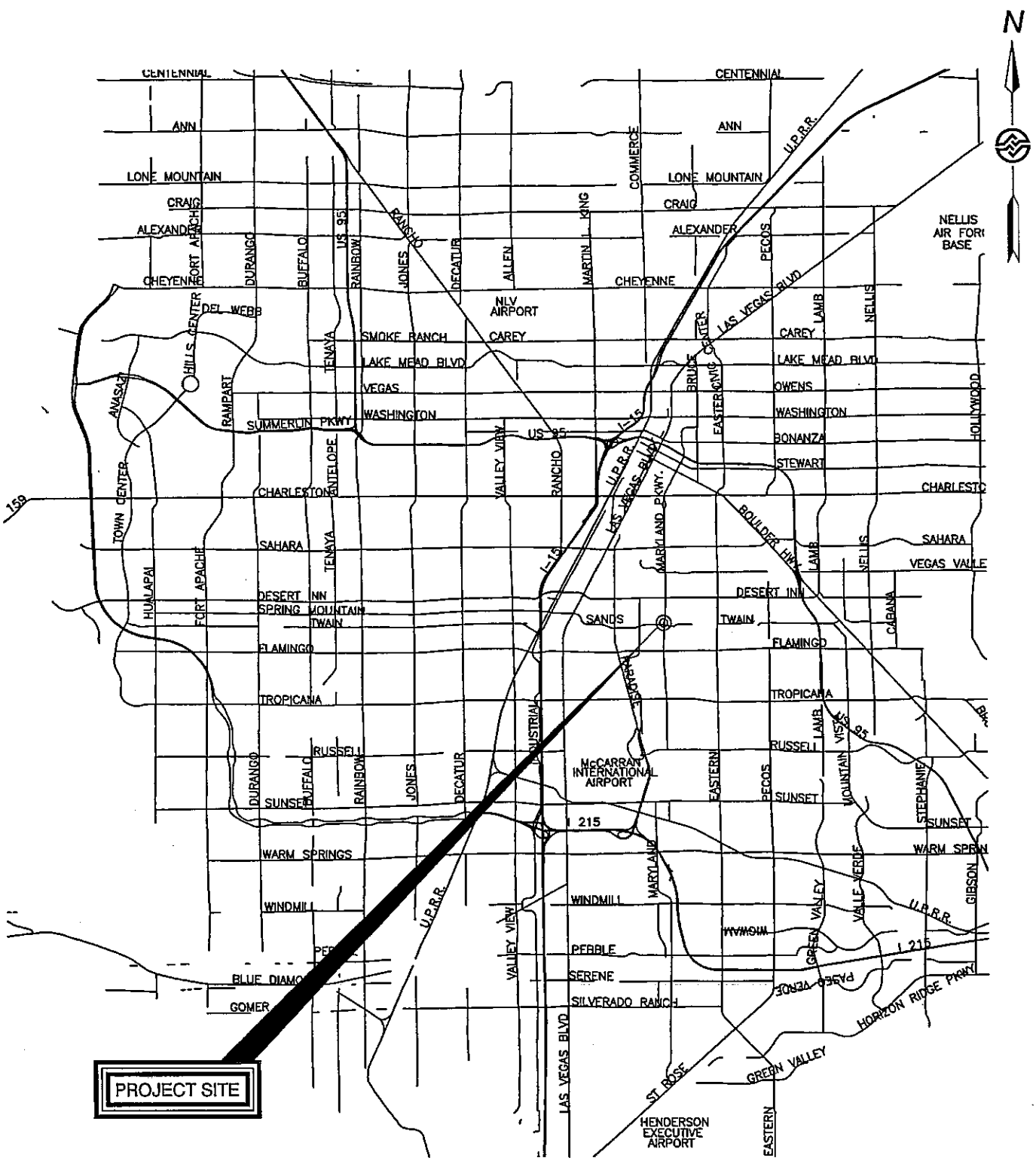
Reviewed and approved by,

Kurt A. Goebel, CEM, PG
Principal Geologist
Environmental Division Manager

KAG:ALM:sc
100/38CS

Encl: Drawings 1 and 2
Tables 1 and 2
Appendix A – Laboratory Analytical Reports

Dist: 3/Addressee
1/Nevada Division of Environmental Protection
Attn: Ms. Shannon Harbour
1/The Boulevard Mall
Attn: Mr. Timothy Biedinger
2/Jenkens & Gilchrist
Attn: Mr. John Cermak



LAS VEGAS VICINITY

Maryland Square Shopping Center LLC/Herman Kishner Trust
3661 South Maryland Parkway
Las Vegas, Nevada

Scale	1" = 15,000'
Date	5/14/03
Drafted By	ESB
Checked By	ALM
Approved By	
File No.	36704V01
Project No.	00-43367-04
Drawing No.	1

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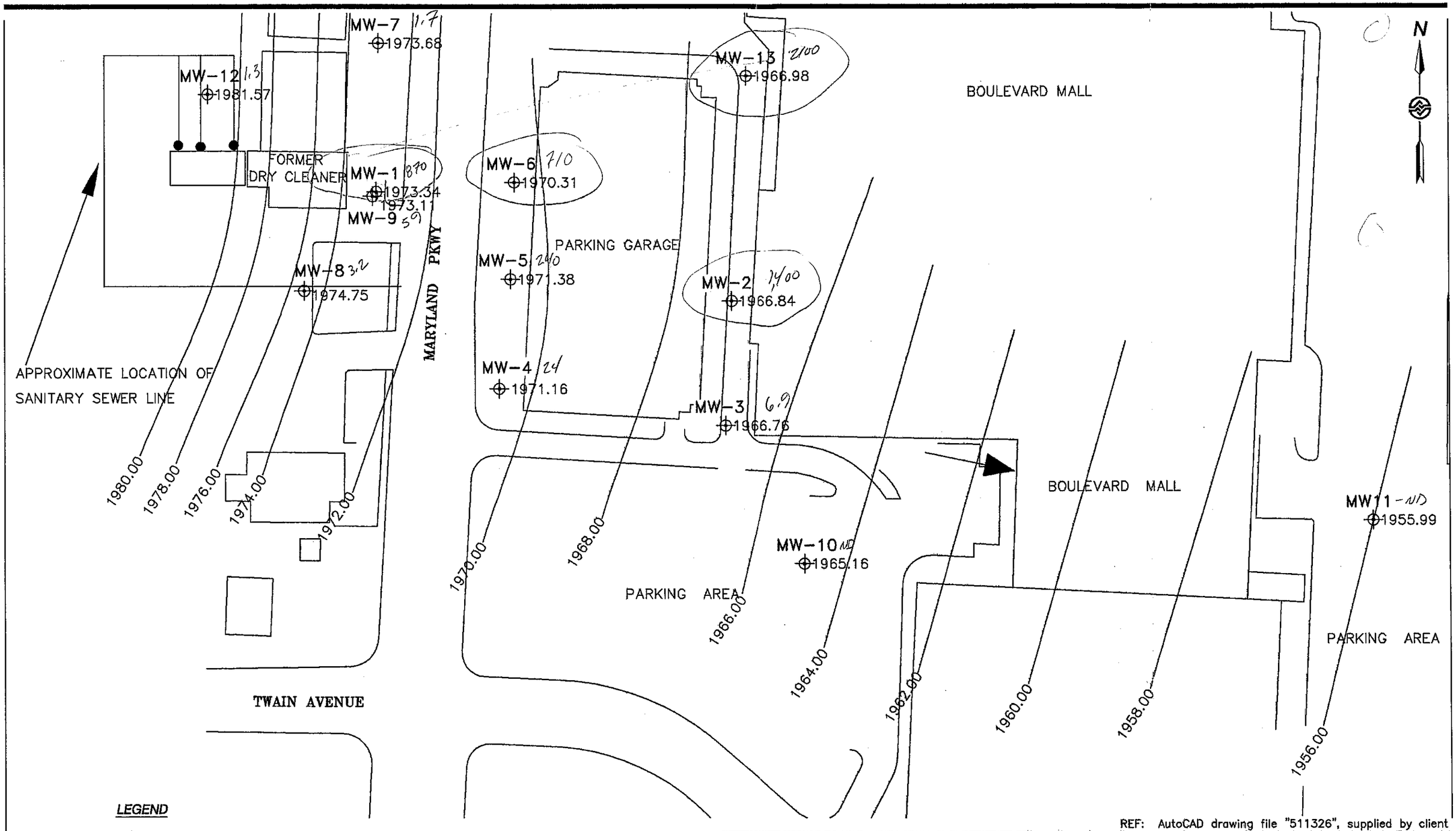

REF: AutoCAD drawing file "511326", supplied by client

LEGEND

- MONITOR WELL LOCATION
- GROUNDWATER GRADIENT DIRECTION
- 1978.00 GROUNDWATER ELEVATION
- SEWER CLEANOUT

MONITORING WELL ELEVATIONS

Maryland Square Shopping Center LLC/Herman Kishner Trust
3661 South Maryland Parkway
Las Vegas, Nevada

Scale	1"=100'
Date	5/14/03
Drafted By	ESB
Checked By	ALM
Approved By	
File No.	36704002
Project No.	00-43367-04
Drawing No.	2

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May 16, 2003

Table 1 - Historical Groundwater Analytical Results

Well ID	Date	EPA Method 8260B					
		PCE (µg/l)	TCE (µg/l)	Cis-1,2-Dichloroethene (µg/l)	Vinyl Chloride (µg/l)	Acetone (µg/l)	Chloroform (mg/L)
MW-1	8/14/00	2,300	ND	ND	ND	ND	ND
	10/5/00	NS	NS	NS	NS	NS	NS
	9/24/02	2,000	ND	ND	ND	ND	6.7
	5/7/03	870	ND	ND	ND	NA	ND
MW-2	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	3,000	18	18	ND	ND	ND
	9/24/02	3,000	13	13	ND	ND	ND
	5/7/03	1,400	ND	ND	ND	NA	ND
MW-3	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	98	ND	ND	ND	ND	8.3
	9/24/02	ND	ND	ND	ND	ND	13
	5/7/03	6.9	ND	ND	ND	NA	6.3
MW-4	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	14	ND	ND	ND	ND	ND
	9/24/02	25	ND	ND	ND	ND	ND
	5/7/03	24	ND	ND	ND	NA	3
MW-5	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	100	ND	ND	ND	ND	ND
	9/24/02	110	ND	ND	ND	ND	5.6
	5/7/03	240	ND	ND	ND	NA	ND
MW-6	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	2,200	13	8.1	ND	ND	ND
	9/24/02	1,000	41	14	14	ND	ND
	5/7/03	710	22	ND	ND	NA	ND
MW-7	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	NI	NI	NI	NI	NI	NI
	9/24/02	ND	ND	ND	ND	ND	ND
	5/7/03	1.7	ND	ND	ND	NA	2.8
MW-8	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	NI	NI	NI	NI	NI	NI
	9/24/02	5.4	ND	ND	ND	ND	6.4
	5/7/03	3.2	ND	ND	ND	NA	4.5
MW-9	8/114/00	NI	NI	NI	NI	NI	NI
	10/5/00	NI	NI	NI	NI	NI	NI
	9/24/02	670	ND	ND	ND	43	ND
	5/7/03	59	ND	ND	ND	NA	ND
MW-10	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	NI	NI	NI	NI	NI	NI
	9/24/02	ND	ND	ND	ND	ND	ND
	5/7/03	ND	ND	ND	ND	NA	ND

Well ID	Date	EPA Method 8260B					
		PCE (µg/l)	TCE (µg/l)	Cis-1,2-Dichloroethene (µg/l)	Vinyl Chloride (µg/l)	Acetone (µg/l)	Chloroform (mg/L)
MW-11	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	NI	NI	NI	NI	NI	NI
	9/24/02	ND	ND	ND	ND	58	ND
	5/7/03	ND	ND	ND	ND	NA	ND
MW-12	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	NI	NI	NI	NI	NI	NI
	9/24/02	ND	ND	ND	ND	ND	ND
	5/7/03	1.3	ND	ND	ND	NA	3
MW-13	8/14/00	NI	NI	NI	NI	NI	NI
	10/5/00	NI	NI	NI	NI	NI	NI
	9/24/02	NI	NI	NI	NI	NI	NI
	5/7/03	2,100	ND	ND	ND	NA	ND

ND = Not Detected

NI = Not Installed

ND = Not Sampled

NA = Not Analyzed

Table 2 - Historical Groundwater Elevations

Well ID	Top of Casing Elevation (Feet MSL)	Date	Depth to Groundwater Level (Feet)	Groundwater Elevation (Feet MSL)
MW-1	1991.81	10/5/00	17.54	1974.27
	1992.04	9/24/02	17.90	1974.14
	1992.04	5/7/03	18.70	1973.34
MW-2	1983.79	10/5/00	15.52	1968.27
	1983.99	9/24/02	16.62	1967.37
	1983.99	5/7/03	17.15	1966.84
MW-3	1984.19	10/5/00	15.95	1968.24
	1984.46	9/24/02	17.20	1967.26
	1984.46	5/7/03	17.70	1966.76
MW-4	1989.68	10/5/00	16.95	1972.73
	1989.87	9/24/02	NM	NM
	1989.87	5/7/03	18.71	1971.16
MW-5	1988.93	10/5/00	16.20	1972.73
	1989.18	9/24/02	17.00	1972.87
	1989.18	5/7/03	17.80	1971.38
MW-6	1988.72	10/5/00	17.41	1971.31
	1989.01	9/24/02	18.26	1970.75
	1989.01	5/7/03	18.87	1970.14
MW-7		10/5/00	NI	NI
	1990.28	9/24/02	18.27	1972.01
	1990.28	5/7/03	16.60	1973.68
MW-8		10/5/00	NI	NI
	1994.25	9/24/02	18.55	1975.70
	1994.25	5/7/03	19.50	1974.75
MW-9		10/5/00	NI	NI
	1992.26	9/24/02	18.46	1973.80
	1992.26	5/7/03	19.15	1973.11
MW-10		10/5/00	NI	NI
	1983.81	9/24/02	18.51	1965.30
	1983.81	5/7/03	18.65	1965.16
MW-11		10/5/00	NI	NI
	1980.24	9/24/02	24.22	1956.02
	1980.24	5/7/03	24.25	1955.99
MW-12		10/5/00	NI	NI
	1996.59	9/24/02	14.90	1981.69
	1996.59	5/7/03	15.02	1981.57
MW-13		10/5/00	NI	NI
		9/24/02	NI	NI
	1984.23	5/7/03	17.25	1966.98

NM = Not Measured

NI = Not Installed

Monitoring wells were re-surveyed in September 2002

Appendix A

Alpha Analytical, Inc.
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-01A
Client I.D. Number: MW1

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	40 µg/L
2	Vinyl chloride	ND	10 µg/L
3	Chloroethane	ND	10 µg/L
4	Bromomethane	ND	10 µg/L
5	Trichlorofluoromethane	ND	10 µg/L
6	1,1-Dichloroethene	ND	10 µg/L
7	Dichloromethane	ND	40 µg/L
8	trans-1,2-Dichloroethene	ND	10 µg/L
9	1,1-Dichloroethane	ND	10 µg/L
10	cis-1,2-Dichloroethene	ND	10 µg/L
11	Chloroform	ND	10 µg/L
12	1,2-Dichloroethane	ND	10 µg/L
13	1,1,1-Trichloroethane	ND	10 µg/L
14	Carbon tetrachloride	ND	10 µg/L
15	Benzene	ND	5.0 µg/L
16	1,2-Dichloropropane	ND	10 µg/L
17	Trichloroethene	ND	10 µg/L
18	Bromodichloromethane	ND	10 µg/L
19	cis-1,3-Dichloropropene	ND	10 µg/L
20	trans-1,3-Dichloropropene	ND	10 µg/L
21	1,1,2-Trichloroethane	ND	10 µg/L
22	Toluene	ND	5.0 µg/L
23	Dibromochloromethane	ND	10 µg/L
24	Tetrachloroethene	870	10 µg/L
25	Chlorobenzene	ND	10 µg/L
26	Ethylbenzene	ND	5.0 µg/L
27	m,p-Xylene	ND	5.0 µg/L
28	Bromoform	ND	10 µg/L
29	o-Xylene	ND	5.0 µg/L
30	1,1,2,2-Tetrachloroethane	ND	10 µg/L
31	1,3-Dichlorobenzene	ND	10 µg/L
32	1,4-Dichlorobenzene	ND	10 µg/L
33	1,2-Dichlorobenzene	ND	10 µg/L

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Wichita, KS • (316) 722-5890 / info@alpha-analytical.com

5/14/03
Report Date

Alpha Analytical, Inc.
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-02A
Client I.D. Number: MW2

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	80 µg/L
2	Vinyl chloride	ND	20 µg/L
3	Chloroethane	ND	20 µg/L
4	Bromomethane	ND	20 µg/L
5	Trichlorofluoromethane	ND	20 µg/L
6	1,1-Dichloroethene	ND	20 µg/L
7	Dichloromethane	ND	80 µg/L
8	trans-1,2-Dichloroethene	ND	20 µg/L
9	1,1-Dichloroethane	ND	20 µg/L
10	cis-1,2-Dichloroethene	ND	20 µg/L
11	Chloroform	ND	20 µg/L
12	1,2-Dichloroethane	ND	20 µg/L
13	1,1,1-Trichloroethane	ND	20 µg/L
14	Carbon tetrachloride	ND	20 µg/L
15	Benzene	ND	10 µg/L
16	1,2-Dichloropropane	ND	20 µg/L
17	Trichloroethene	ND	20 µg/L
18	Bromodichloromethane	ND	20 µg/L
19	cis-1,3-Dichloropropene	ND	20 µg/L
20	trans-1,3-Dichloropropene	ND	20 µg/L
21	1,1,2-Trichloroethane	ND	20 µg/L
22	Toluene	ND	10 µg/L
23	Dibromochloromethane	ND	20 µg/L
24	Tetrachloroethene	1,400	20 µg/L
25	Chlorobenzene	ND	20 µg/L
26	Ethylbenzene	ND	10 µg/L
27	m,p-Xylene	ND	10 µg/L
28	Bromoform	ND	20 µg/L
29	o-Xylene	ND	10 µg/L
30	1,1,2,2-Tetrachloroethane	ND	20 µg/L
31	1,3-Dichlorobenzene	ND	20 µg/L
32	1,4-Dichlorobenzene	ND	20 µg/L
33	1,2-Dichlorobenzene	ND	20 µg/L

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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5/14/03
Report Date

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-03A
Client I.D. Number: MW3

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L
11	Chloroform	6.3	1.0 µg/L
12	1,2-Dichloroethane	ND	1.0 µg/L
13	1,1,1-Trichloroethane	ND	1.0 µg/L
14	Carbon tetrachloride	ND	1.0 µg/L
15	Benzene	ND	1.0 µg/L
16	1,2-Dichloropropane	ND	1.0 µg/L
17	Trichloroethene	ND	1.0 µg/L
18	Bromodichloromethane	ND	1.0 µg/L
19	cis-1,3-Dichloropropene	ND	1.0 µg/L
20	trans-1,3-Dichloropropene	ND	1.0 µg/L
21	1,1,2-Trichloroethane	ND	1.0 µg/L
22	Toluene	ND	1.0 µg/L
23	Dibromochloromethane	ND	1.0 µg/L
24	Tetrachloroethene	6.9	1.0 µg/L
25	Chlorobenzene	ND	1.0 µg/L
26	Ethylbenzene	ND	1.0 µg/L
27	m,p-Xylene	ND	1.0 µg/L
28	Bromoform	ND	1.0 µg/L
29	o-Xylene	ND	1.0 µg/L
30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
31	1,3-Dichlorobenzene	ND	1.0 µg/L
32	1,4-Dichlorobenzene	ND	1.0 µg/L
33	1,2-Dichlorobenzene	ND	1.0 µg/L

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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5/14/03
Report Date

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ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-04A
Client I.D. Number: MW4

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L
11	Chloroform	3.0	1.0 µg/L
12	1,2-Dichloroethane	ND	1.0 µg/L
13	1,1,1-Trichloroethane	ND	1.0 µg/L
14	Carbon tetrachloride	ND	1.0 µg/L
15	Benzene	ND	1.0 µg/L
16	1,2-Dichloropropane	ND	1.0 µg/L
17	Trichloroethene	ND	1.0 µg/L
18	Bromodichloromethane	ND	1.0 µg/L
19	cis-1,3-Dichloropropene	ND	1.0 µg/L
20	trans-1,3-Dichloropropene	ND	1.0 µg/L
21	1,1,2-Trichloroethane	ND	1.0 µg/L
22	Toluene	ND	1.0 µg/L
23	Dibromochloromethane	ND	1.0 µg/L
24	Tetrachloroethene	24	1.0 µg/L
25	Chlorobenzene	ND	1.0 µg/L
26	Ethylbenzene	ND	1.0 µg/L
27	m,p-Xylene	ND	1.0 µg/L
28	Bromoform	ND	1.0 µg/L
29	o-Xylene	ND	1.0 µg/L
30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
31	1,3-Dichlorobenzene	ND	1.0 µg/L
32	1,4-Dichlorobenzene	ND	1.0 µg/L
33	1,2-Dichlorobenzene	ND	1.0 µg/L

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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5/14/03
Report Date

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ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-05A
Client I.D. Number: MW5

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	20 µg/L
2	Vinyl chloride	ND	5.0 µg/L
3	Chloroethane	ND	5.0 µg/L
4	Bromomethane	ND	5.0 µg/L
5	Trichlorofluoromethane	ND	5.0 µg/L
6	1,1-Dichloroethene	ND	5.0 µg/L
7	Dichloromethane	ND	20 µg/L
8	trans-1,2-Dichloroethene	ND	5.0 µg/L
9	1,1-Dichloroethane	ND	5.0 µg/L
10	cis-1,2-Dichloroethene	ND	5.0 µg/L
11	Chloroform	ND	5.0 µg/L
12	1,2-Dichloroethane	ND	5.0 µg/L
13	1,1,1-Trichloroethane	ND	5.0 µg/L
14	Carbon tetrachloride	ND	5.0 µg/L
15	Benzene	ND	2.5 µg/L
16	1,2-Dichloropropane	ND	5.0 µg/L
17	Trichloroethene	ND	5.0 µg/L
18	Bromodichloromethane	ND	5.0 µg/L
19	cis-1,3-Dichloropropene	ND	5.0 µg/L
20	trans-1,3-Dichloropropene	ND	5.0 µg/L
21	1,1,2-Trichloroethane	ND	5.0 µg/L
22	Toluene	ND	2.5 µg/L
23	Dibromochloromethane	ND	5.0 µg/L
24	Tetrachloroethene	240	5.0 µg/L
25	Chlorobenzene	ND	5.0 µg/L
26	Ethylbenzene	ND	2.5 µg/L
27	m,p-Xylene	ND	2.5 µg/L
28	Bromoform	ND	5.0 µg/L
29	o-Xylene	ND	2.5 µg/L
30	1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
31	1,3-Dichlorobenzene	ND	5.0 µg/L
32	1,4-Dichlorobenzene	ND	5.0 µg/L
33	1,2-Dichlorobenzene	ND	5.0 µg/L

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

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5/14/03
Report Date

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ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-06A
Client I.D. Number: MW6

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	40 µg/L
2	Vinyl chloride	ND	10 µg/L
3	Chloroethane	ND	10 µg/L
4	Bromomethane	ND	10 µg/L
5	Trichlorofluoromethane	ND	10 µg/L
6	1,1-Dichloroethene	ND	10 µg/L
7	Dichloromethane	ND	40 µg/L
8	trans-1,2-Dichloroethene	ND	10 µg/L
9	1,1-Dichloroethane	ND	10 µg/L
10	cis-1,2-Dichloroethene	ND	10 µg/L
11	Chloroform	ND	10 µg/L
12	1,2-Dichloroethane	ND	10 µg/L
13	1,1,1-Trichloroethane	ND	10 µg/L
14	Carbon tetrachloride	ND	10 µg/L
15	Benzene	ND	5.0 µg/L
16	1,2-Dichloropropane	ND	10 µg/L
17	Trichloroethene	22	10 µg/L
18	Bromodichloromethane	ND	10 µg/L
19	cis-1,3-Dichloropropene	ND	10 µg/L
20	trans-1,3-Dichloropropene	ND	10 µg/L
21	1,1,2-Trichloroethane	ND	10 µg/L
22	Toluene	ND	5.0 µg/L
23	Dibromochloromethane	ND	10 µg/L
24	Tetrachloroethene	710	10 µg/L
25	Chlorobenzene	ND	10 µg/L
26	Ethylbenzene	ND	5.0 µg/L
27	m,p-Xylene	ND	5.0 µg/L
28	Bromoform	ND	10 µg/L
29	o-Xylene	ND	5.0 µg/L
30	1,1,2,2-Tetrachloroethane	ND	10 µg/L
31	1,3-Dichlorobenzene	ND	10 µg/L
32	1,4-Dichlorobenzene	ND	10 µg/L
33	1,2-Dichlorobenzene	ND	10 µg/L

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

R. Scholl Randy Gardner Walter Hinchman

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5/14/03
Report Date

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ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-07A
Client I.D. Number: MW7

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L
11	Chloroform	2.8	1.0 µg/L
12	1,2-Dichloroethane	ND	1.0 µg/L
13	1,1,1-Trichloroethane	ND	1.0 µg/L
14	Carbon tetrachloride	ND	1.0 µg/L
15	Benzene	ND	1.0 µg/L
16	1,2-Dichloropropane	ND	1.0 µg/L
17	Trichloroethene	ND	1.0 µg/L
18	Bromodichloromethane	ND	1.0 µg/L
19	cis-1,3-Dichloropropene	ND	1.0 µg/L
20	trans-1,3-Dichloropropene	ND	1.0 µg/L
21	1,1,2-Trichloroethane	ND	1.0 µg/L
22	Toluene	ND	1.0 µg/L
23	Dibromochloromethane	ND	1.0 µg/L
24	Tetrachloroethene	1.7	1.0 µg/L
25	Chlorobenzene	ND	1.0 µg/L
26	Ethylbenzene	ND	1.0 µg/L
27	m,p-Xylene	ND	1.0 µg/L
28	Bromoform	ND	1.0 µg/L
29	o-Xylene	ND	1.0 µg/L
30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
31	1,3-Dichlorobenzene	ND	1.0 µg/L
32	1,4-Dichlorobenzene	ND	1.0 µg/L
33	1,2-Dichlorobenzene	ND	1.0 µg/L

ND = Not Detected

R. Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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5/14/03
Report Date

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ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-08A
Client I.D. Number: MW8

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L
11	Chloroform	4.5	1.0 µg/L
12	1,2-Dichloroethane	ND	1.0 µg/L
13	1,1,1-Trichloroethane	ND	1.0 µg/L
14	Carbon tetrachloride	ND	1.0 µg/L
15	Benzene	ND	1.0 µg/L
16	1,2-Dichloropropane	ND	1.0 µg/L
17	Trichloroethene	ND	1.0 µg/L
18	Bromodichloromethane	ND	1.0 µg/L
19	cis-1,3-Dichloropropene	ND	1.0 µg/L
20	trans-1,3-Dichloropropene	ND	1.0 µg/L
21	1,1,2-Trichloroethane	ND	1.0 µg/L
22	Toluene	ND	1.0 µg/L
23	Dibromochloromethane	ND	1.0 µg/L
24	Tetrachloroethene	3.2	1.0 µg/L
25	Chlorobenzene	ND	1.0 µg/L
26	Ethylbenzene	ND	1.0 µg/L
27	m,p-Xylene	ND	1.0 µg/L
28	Bromoform	ND	1.0 µg/L
29	o-Xylene	ND	1.0 µg/L
30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
31	1,3-Dichlorobenzene	ND	1.0 µg/L
32	1,4-Dichlorobenzene	ND	1.0 µg/L
33	1,2-Dichlorobenzene	ND	1.0 µg/L

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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5/14/03
Report Date

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ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-09A
Client I.D. Number: MW9

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	4.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	4.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L
11	Chloroform	ND	1.0 µg/L
12	1,2-Dichloroethane	ND	1.0 µg/L
13	1,1,1-Trichloroethane	ND	1.0 µg/L
14	Carbon tetrachloride	ND	1.0 µg/L
15	Benzene	ND	1.0 µg/L
16	1,2-Dichloropropane	ND	1.0 µg/L
17	Trichloroethene	ND	1.0 µg/L
18	Bromodichloromethane	ND	1.0 µg/L
19	cis-1,3-Dichloropropene	ND	1.0 µg/L
20	trans-1,3-Dichloropropene	ND	1.0 µg/L
21	1,1,2-Trichloroethane	ND	1.0 µg/L
22	Toluene	ND	1.0 µg/L
23	Dibromochloromethane	ND	1.0 µg/L
24	Tetrachloroethene	59	1.0 µg/L
25	Chlorobenzene	ND	1.0 µg/L
26	Ethylbenzene	ND	1.0 µg/L
27	m,p-Xylene	1.1	1.0 µg/L
28	Bromoform	ND	1.0 µg/L
29	o-Xylene	ND	1.0 µg/L
30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
31	1,3-Dichlorobenzene	ND	1.0 µg/L
32	1,4-Dichlorobenzene	ND	1.0 µg/L
33	1,2-Dichlorobenzene	ND	1.0 µg/L

Some Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

R. Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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5/14/03
Report Date

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ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-10A
Client I.D. Number: MW10

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L
11	Chloroform	ND	1.0 µg/L
12	1,2-Dichloroethane	ND	1.0 µg/L
13	1,1,1-Trichloroethane	ND	1.0 µg/L
14	Carbon tetrachloride	ND	1.0 µg/L
15	Benzene	ND	1.0 µg/L
16	1,2-Dichloropropane	ND	1.0 µg/L
17	Trichloroethene	ND	1.0 µg/L
18	Bromodichloromethane	ND	1.0 µg/L
19	cis-1,3-Dichloropropene	ND	1.0 µg/L
20	trans-1,3-Dichloropropene	ND	1.0 µg/L
21	1,1,2-Trichloroethane	ND	1.0 µg/L
22	Toluene	ND	1.0 µg/L
23	Dibromochloromethane	ND	1.0 µg/L
24	Tetrachloroethene	ND	1.0 µg/L
25	Chlorobenzene	ND	1.0 µg/L
26	Ethylbenzene	ND	1.0 µg/L
27	m,p-Xylene	ND	1.0 µg/L
28	Bromoform	ND	1.0 µg/L
29	o-Xylene	ND	1.0 µg/L
30	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
31	1,3-Dichlorobenzene	ND	1.0 µg/L
32	1,4-Dichlorobenzene	ND	1.0 µg/L
33	1,2-Dichlorobenzene	ND	1.0 µg/L

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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5/14/03
Report Date

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ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-11A
Client I.D. Number: MW11

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	40 µg/L
2	Vinyl chloride	ND	10 µg/L
3	Chloroethane	ND	10 µg/L
4	Bromomethane	ND	10 µg/L
5	Trichlorofluoromethane	ND	10 µg/L
6	1,1-Dichloroethene	ND	10 µg/L
7	Dichloromethane	ND	40 µg/L
8	trans-1,2-Dichloroethene	ND	10 µg/L
9	1,1-Dichloroethane	ND	10 µg/L
10	cis-1,2-Dichloroethene	ND	10 µg/L
11	Chloroform	ND	10 µg/L
12	1,2-Dichloroethane	ND	10 µg/L
13	1,1,1-Trichloroethane	ND	10 µg/L
14	Carbon tetrachloride	ND	10 µg/L
15	Benzene	680	5.0 µg/L
16	1,2-Dichloropropane	ND	10 µg/L
17	Trichloroethene	ND	10 µg/L
18	Bromodichloromethane	ND	10 µg/L
19	cis-1,3-Dichloropropene	ND	10 µg/L
20	trans-1,3-Dichloropropene	ND	10 µg/L
21	1,1,2-Trichloroethane	ND	10 µg/L
22	Toluene	5.1	5.0 µg/L
23	Dibromochloromethane	ND	10 µg/L
24	Tetrachloroethene	ND	10 µg/L
25	Chlorobenzene	ND	10 µg/L
26	Ethylbenzene	450	5.0 µg/L
27	m,p-Xylene	20	5.0 µg/L
28	Bromoform	ND	10 µg/L
29	o-Xylene	70	5.0 µg/L
30	1,1,2,2-Tetrachloroethane	ND	10 µg/L
31	1,3-Dichlorobenzene	ND	10 µg/L
32	1,4-Dichlorobenzene	ND	10 µg/L
33	1,2-Dichlorobenzene	ND	10 µg/L

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Wichita, KS • (316) 722-5890 / info@alpha-analytical.com

5/14/03
Report Date

Alpha Analytical, Inc.
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-12A
Client I.D. Number: MW12

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	Dichloromethane	ND	2.0 µg/L
7	trans-1,2-Dichloroethene	ND	1.0 µg/L
8	1,1-Dichloroethane	ND	1.0 µg/L
9	cis-1,2-Dichloroethene	ND	1.0 µg/L
10	Chloroform	3.0	1.0 µg/L
11	1,2-Dichloroethane	ND	1.0 µg/L
12	1,1,1-Trichloroethane	ND	1.0 µg/L
13	Carbon tetrachloride	ND	1.0 µg/L
14	Benzene	ND	1.0 µg/L
15	1,2-Dichloropropane	ND	1.0 µg/L
16	Trichloroethene	ND	1.0 µg/L
17	Bromodichloromethane	ND	1.0 µg/L
18	cis-1,3-Dichloropropene	ND	1.0 µg/L
19	trans-1,3-Dichloropropene	ND	1.0 µg/L
20	1,1,2-Trichloroethane	ND	1.0 µg/L
21	Toluene	ND	1.0 µg/L
22	Dibromochloromethane	ND	1.0 µg/L
23	Tetrachloroethene	1.3	1.0 µg/L
24	Chlorobenzene	ND	1.0 µg/L
25	Ethylbenzene	ND	1.0 µg/L
26	m,p-Xylene	ND	1.0 µg/L
27	Bromoform	ND	1.0 µg/L
28	o-Xylene	ND	1.0 µg/L
29	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
30	1,3-Dichlorobenzene	ND	1.0 µg/L
31	1,4-Dichlorobenzene	ND	1.0 µg/L
32	1,2-Dichlorobenzene	ND	1.0 µg/L

ND = Not Detected

R. Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Wichita, KS • (316) 722-5890 / info@alpha-analytical.com

5/14/03
Report Date

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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050850-13A
Client I.D. Number: MW13

Sampled: 05/07/03
Received: 05/08/03
Analyzed: 05/12/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	120 µg/L
2	Vinyl chloride	ND	30 µg/L
3	Chloroethane	ND	30 µg/L
4	Bromomethane	ND	30 µg/L
5	Trichlorofluoromethane	ND	30 µg/L
6	1,1-Dichloroethene	ND	30 µg/L
7	Dichloromethane	ND	120 µg/L
8	trans-1,2-Dichloroethene	ND	30 µg/L
9	1,1-Dichloroethane	ND	30 µg/L
10	cis-1,2-Dichloroethene	ND	30 µg/L
11	Chloroform	ND	30 µg/L
12	1,2-Dichloroethane	ND	30 µg/L
13	1,1,1-Trichloroethane	ND	30 µg/L
14	Carbon tetrachloride	ND	30 µg/L
15	Benzene	ND	15 µg/L
16	1,2-Dichloropropane	ND	30 µg/L
17	Trichloroethene	ND	30 µg/L
18	Bromodichloromethane	ND	30 µg/L
19	cis-1,3-Dichloropropene	ND	30 µg/L
20	trans-1,3-Dichloropropene	ND	30 µg/L
21	1,1,2-Trichloroethane	ND	30 µg/L
22	Toluene	ND	15 µg/L
23	Dibromochloromethane	ND	30 µg/L
24	Tetrachloroethene	2,100	30 µg/L
25	Chlorobenzene	ND	30 µg/L

	Compound	Concentration	Reporting Limit
26	Ethylbenzene	ND	15 µg/L
27	m,p-Xylene	ND	15 µg/L
28	Bromoform	ND	30 µg/L
29	o-Xylene	ND	15 µg/L
30	1,1,2,2-Tetrachloroethane	ND	30 µg/L
31	1,3-Dichlorobenzene	ND	30 µg/L
32	1,4-Dichlorobenzene	ND	30 µg/L
33	1,2-Dichlorobenzene	ND	30 µg/L

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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5/14/03
Report Date

Alpha Analytical, Inc.
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC pH Report

Work Order: CON03050850 **Project:** 00-43367-04

Alpha's Sample ID	Client's Sample ID	Matrix	pH
03050850-01A	MW1	Aqueous	2
03050850-02A	MW2	Aqueous	2
03050850-03A	MW3	Aqueous	2
03050850-04A	MW4	Aqueous	2
03050850-05A	MW5	Aqueous	2
03050850-06A	MW6	Aqueous	2
03050850-07A	MW7	Aqueous	2
03050850-08A	MW8	Aqueous	2
03050850-09A	MW9	Aqueous	2
03050850-10A	MW10	Aqueous	2
03050850-11A	MW11	Aqueous	2
03050850-12A	MW12	Aqueous	2
03050850-13A	MW13	Aqueous	2

5/14/03
Report Date

Billing Information:
Name: Same As Below
Address:
City, State, Zip:
Phone Number: Fax:

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Page # 1 of 1 NV

Client Name: Converse Consultants	P.O. #	Job # 00-43367-04	
Address: 731 Pilot Road Suite H	PWS #	DWR #	
City, State, Zip: LV NV 89119	Phone # 263-7600	Fax # 269-8053	
Sampled by	Report Attention		

Analyses Required: 8260 Full Range VOC

Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only / Lab ID Number	Sample Description	Total and type of containers ** See below	8260 Full Range VOC								REMARKS
1005	5/7	AQ	CON03050850-01	MW1	3-V	X								Standard
0630	↓	↓	-02	MW2	↓	↓								T.A.T.
0650			-03	MW3										
0750			-04	MW4										
0810			-05	MW5										
0835			-06	MW6										
0945			-07	MW7										
1055			-08	MW8										
1032			-09	MW9										
0710			-10	MW10										
0730			-11	MW11										
1115			-12	MW12										
0558	↓	↓	-13	MW13	↓	↓								

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by	E Byes	Edward Byes	Converse	5/7/03	12:50
Received by	V Smith	V. Smith	Alpha	5-7-03	12:50
Relinquished by	V Smith	V. Smith	Alpha	5-7-03	4:00
Received by	DSBaker	DSBaker	Alpha	5/8/03	1545
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

CLIENT:	Converse Consultants	**Client Sample ID:**	MW-13 14ft.
Work Order:	CON03050849	**Date Sampled:**	5/6/2003 8:45:00 AM
Project:	00-43367-04	**Date Received:**	5/8/2003
Lab ID:	CON03050849-01A	**Matrix:**	SOIL

Analyte	Result	Reporting Limit	Qual	Units	Date Analyzed	Analytical Method
Chromium	8.1	1.0		mg/Kg	05/09/2003	EPA Method SW6020
Arsenic	ND	1.0		mg/Kg	05/09/2003	EPA Method SW6020
Selenium	ND	1.0		mg/Kg	05/09/2003	EPA Method SW6020
Silver	ND	1.0		mg/Kg	05/09/2003	EPA Method SW6020
Cadmium	ND	1.0		mg/Kg	05/09/2003	EPA Method SW6020
Barium	180	1.0		mg/Kg	05/09/2003	EPA Method SW6020
Mercury	ND	0.20		mg/Kg	05/09/2003	EPA Method SW6020
Lead	1.3	1.0		mg/Kg	05/09/2003	EPA Method SW6020

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

5/14/03
Report Date

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Wichita, KS • (316) 722-5890 / info@alpha-analytical.com

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ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353
Date Received 05/08/03

Job#: 00-43367-04

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B/DHS LUFT Manual
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B/DHS LUFT Manual

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	MW-13 14ft.	TPH-E (Jet Fuel)	ND	10 mg/Kg	05/06/03	05/13/03
Lab ID :	CON03050849-01A	TPH-E (Diesel)	ND	10 mg/Kg	05/06/03	05/13/03
		TPH-E (Oil)	ND	10 mg/Kg	05/06/03	05/13/03
		TPH Purgeable	ND	10 mg/Kg	05/06/03	05/09/03

ND = Not Detected

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5/14/03
Report Date

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119
Job#: 00-43367-04

Attn: Andrea Moericke
Phone: (702) 263-7600
Fax: (702) 269-8353

Alpha Analytical Number: CON03050849-01A
Client I.D. Number: MW-13 14ft.

Sampled: 05/06/03
Received: 05/08/03
Analyzed: 05/09/03

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	40 µg/Kg
2	Vinyl chloride	ND	20 µg/Kg
3	Chloroethane	ND	20 µg/Kg
4	Bromomethane	ND	20 µg/Kg
5	Trichlorofluoromethane	ND	20 µg/Kg
6	1,1-Dichloroethene	ND	20 µg/Kg
7	Dichloromethane	ND	40 µg/Kg
8	trans-1,2-Dichloroethene	ND	20 µg/Kg
9	1,1-Dichloroethane	ND	20 µg/Kg
10	cis-1,2-Dichloroethene	ND	20 µg/Kg
11	Chloroform	ND	20 µg/Kg
12	1,2-Dichloroethane	ND	20 µg/Kg
13	1,1,1-Trichloroethane	ND	20 µg/Kg
14	Carbon tetrachloride	ND	20 µg/Kg
15	Benzene	ND	20 µg/Kg
16	1,2-Dichloropropane	ND	20 µg/Kg
17	Trichloroethene	ND	20 µg/Kg
18	Bromodichloromethane	ND	20 µg/Kg
19	cis-1,3-Dichloropropene	ND	20 µg/Kg
20	trans-1,3-Dichloropropene	ND	20 µg/Kg
21	1,1,2-Trichloroethane	ND	20 µg/Kg
22	Toluene	ND	20 µg/Kg
23	Dibromochloromethane	ND	20 µg/Kg
24	Tetrachloroethene	45	20 µg/Kg
25	Chlorobenzene	ND	20 µg/Kg
26	Ethylbenzene	ND	20 µg/Kg
27	m,p-Xylene	ND	20 µg/Kg
28	Bromoform	ND	20 µg/Kg
29	o-Xylene	ND	20 µg/Kg
30	1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
31	1,3-Dichlorobenzene	ND	20 µg/Kg
32	1,4-Dichlorobenzene	ND	20 µg/Kg
33	1,2-Dichlorobenzene	ND	20 µg/Kg

ND = Not Detected

R Scholl Randy Gardner Walter Hinchman

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5/14/03
Report Date

Billing Information:
Name: Same as Below
Address:
City, State, Zip:
Phone Number: Fax:

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Page # 1 of 1 NV

Client Name	P.O. #	Job #
Converse Consultants		00-43367-04
Address: 731 Pilot Rd Suite H	PWS #	DWR #
City, State, Zip: LV, NV 89119	Phone # 702-363-7600	Fax # 702-369-8353
Sampled by: A. Moericke	Report Attention: A. Moericke	

Analyses Required

Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only Lab ID Number	Sample Description	Total and type of containers ** See below	8260 Full Range	TPH 8015 Full Range	8RCRA Metals						REMARKS
8:45	5/6	SO	CDN0305054901	MW-13 14'	1-8	X	X	X						Standard TAT

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by	[signature]	EDWARD BYERS	Converse	5-7-03	12:50
Received by	[signature]	V. SMITH	Alpha	5-7-03	12:50
Relinquished by	[signature]	V. SMITH	Alpha	5-7-03	4:00
Received by	[signature]	DS Baker	Alpha	5/8/03	1300
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.