ADEQ INFORMATION CENTER

GROUNDWATER QUALITY STUDY FOR BULLHEAD CITY AND NORTHERN MOHAVE VALLEY, ARIZONA

NOT TO BE REMOVED FROM THE INFORMATION CENTER

VOLUME 2

Prepared by

Patti Tuve and Joseph Giannelli

Hydrologic Support and Assessment Section

Water Quality Division

Arizona Department of Environmental Quality

June 1995

OFR 95-6

TABLE OF CONTENTS

WELLS 1

00324
MV694-51, MV1294-60, MV1294-61 1

01280
MV694-06, MV894-03, MV1294-40, MV1294-41 11

21177
MV694-02, MV1294-46 18

21610
MV694-05, MV894-01, MV1294-38 22

21806
MV694-36, MV1294-30, MV1294-31 29

21807
MV694-34, MV694-35, MV1294-32 35

21809
MV694-33, MV1294-37 42

45994
MV694-57, MV1294-07 47

45997
MV694-54, MV1294-10, MV1294-11 52

45998
MV694-55, MV1294-09 59

45999
MV694-58, MV1294-06 64

46001
MV694-39, MV1294-67 69

46059
MV694-12, MV1294-55 74

46060
MV694-37 78

46061
MV694-24, MV1294-56 81

46062
MV694-45, MV1294-66 85

46066
MV694-04, MV1294-45 90

46067
MV694-38, MV1294-69, MV1294-70 94

46068
MV694-21, MV694-22, MV1294-48 101

46069
MV694-46, MV1294-12 109

46070
MV694-40, MV1294-22 114

46074
MV694-48, MV1294-68 119

46075
MV694-25, MV1294-04 124
46076
MV694-59, MV1294-24 129
46077
MV694-01, MV1294-05 134
46078
MV694-47, MV1294-25 138
46079
MV694-11, MV1294-20, MV1294-21 143
46080
MV694-49, MV1294-27 152
46081
MV694-14, MV694-15, MV1294-19 157
46082
MV694-10, MV1294-17 165
46083
MV694-16, MV1294-15 171
46084
MV694-13, MV1294-01, MV295-07 177
46085
MV694-61, MV1294-23, MV295-01 183
46086
MV694-43, MV694-44, MV1294-57 190
46088
MV694-27, MV1294-02 197
46089
MV694-42, MV1294-13 202
46090
MV694-28, MV1294-16 207
46091
MV694-30, MV1294-33 212
46092
MV694-29, MV1294-34 217
46093
MV694-32, MV1294-36 222
46094
MV694-31, MV1294-35 227
46096
MV694-53, MV1294-64, MV295-03 232
46281
MV694-09, MV1294-29, MV295-06 242
46282
MV694-08, MV894-04, MV1294-28 247
46292
MV694-56, MV1294-08 252

46293
MV694-19, MV1294-47 257
46294
MV694-20, MV1294-49 261
46295
MV694-62, MV1294-50, MV1294-51 267
46296
MV694-65, MV694-66, MV1294-53 274
46297
MV694-63, MV1294-52 280
46595
MV1294-65 285
46596
MV1294-59, MV295-04, MV295-05 288
46597
MV1294-58, MV295-08 295

SURFACE SAMPLES 299
BULLHEAD CITY - LAUGHLIN BRIDGE
MV694-18, MV1294-44 299
NEEDLES BRIDGE
MV694-17, MV1294-43 303

TRIP BLANK 307

EQUIPMENT BLANK
MV694-03, MV694-07, MV694-23, MV694-26, MV694-41
MV694-50, MV694-52, MV694-60, MV694-64. MV894-02
MV1294-03, MV1294-14, MV1294-18, MV1294-26, MV1294-39
MV1294-42, MV1294-54, MV1294-62, MV1294-63, MV295-02 337

CHAIN OF CUSTODY 379

WELL# 00324

MV694-51, MV1294-60, MV1294-61

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

August 23, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:3

PCA: 46141
PROJECT/PE: 994600-01
GRANT/PE: N/A
SITE ID: MV694-51
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/15/94
Time Sampled: 08:33:00
Date Lab Rec: 06/16/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: CORRECTED REPORT FOR DATE SAMPLED.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN REPORTING L
38307		*								
	07/18/94	SDW ALL INORGANICS								
	06/16/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/16/94	* Alkalinity, Total	349	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/27/94	* Chloride	387	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	07/06/94	* Fluoride	0.30	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/16/94	* pH	7.83		403	EPA 150.1	0.1	SU		
	07/01/94	* Hardness (CaCO3)	761	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	14.4	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	14.4	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	649	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	2140	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/16/94	* Turbidity	0.10	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	183	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	74.9	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	412	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/12/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/12/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/12/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/21/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/12/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/12/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/29/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/13/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia Adler/RP
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LI
3397	06/24/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

ved and Approved: Patricia A Adler/RP
cia A. Adler, Manager
of Environmental and Analytical Chemistry

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 16 Jun 94
Date Received: 16 Jun 94
Date Analyzed: 21 Jun 94
Date Reported: 28 Jun 94
McKenzie I.D.: E94-4445
Units Reported: µg/L (ppb)
Project No.: 994600-01

EPA 602

Compound	MV694-51	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	94	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ4445.DOC sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 17, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-60
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/12/94
Time Sampled: 17:19:00
Date Lab Rec: 12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR NITRITE AND TURBIDITY.

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1367		*								
	12/29/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.28	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	15.9	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	15.9	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/14/94	* Turbidity	0.38	NTU	82079	EPA 180.1	0.01	NTU		
	12/22/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/29/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/20/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/19/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/19/94	* Lead	0.011	mg/l	1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/28/94	* Selenium	ND < 0.05	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/19/94	* Silver	ND < 0.002	mg/l	1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	01/12/95	SDW SECONDARY STANDARDS								
	12/14/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/14/94	* Alkalinity, Total	356	mg/l	410	EPA 310.1	2.0	mg/l		
	12/14/94	* pH	7.56		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	2560	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/27/94	* Hardness (CaCO3)	975	mg/l	900	EPA 130.2	10	mg/l		
	01/09/95	* Calcium	235	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	01/09/95	* Magnesium	94.0	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	01/09/95	* Sodium	525	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	01/12/95	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ved and Approved: Patricia A. Adler 1/92
cia A. Adler, Manager
of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1367		*								
	12/21/94	* Copper	0.074	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/29/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/29/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/29/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/21/94	* Chloride	541	mg/l	940	Std Meth 407	1.0	mg/l		
	01/09/95	* Sulfate (SO4)	867	mg/l	945	EPA 375.2	10.0	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/15/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ewed and Approved: Patricia A. Adler 2/2
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 12 Dec 94
Date Received: 14 Dec 94
Date Analyzed: 16 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11169
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-60	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene (PID)	97	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE11167.DOC/cap

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 12 Dec 94
Date Received: 14 Dec 94
Date Reported: 11 Jan 95
McKenzie I.D.: E94-11172

Client Identification: MV1294-61

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	120	5.0	*SM-2320B	20 Dec 94
pH	SU	7.0	N/A	150.1	14 Dec 94
Calcium	mg/L	220	0.05	200.7	16 Dec 94
Chloride	mg/L	540	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.24	0.10	340.2	16 Dec 94
Magnesium	mg/L	95	0.05	200.7	16 Dec 94
Hardness	mg/L	940	0.50	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	15.0	0.10	353.2	29 Dec 94
Sodium	mg/L	570	1.0	200.7	16 Dec 94
Sulfate	mg/L	1,000	5.0	375.4	29 Dec 94
TDS	mg/L	2,600	5.0	160.1	15 Dec 94
Specific Conductance	µmhos/cm	3,655	1.0	120.1	16 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick, Inorganic Lab Manager

ADE11167.DOC:m

MCKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 12 Dec 94
Date Received: 14 Dec 94
Date Analyzed: 16 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11171
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-61	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene (PID)	98	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE11167.DOC/cap

WELL# 01280

MV694-06, MV894-03, MV1294-40, MV1294-41

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4173
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV94-06

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.6	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	0.11	0.05	200.7	15 Jun 94
Cadmium	mg/L	0.001	0.0005	213.2	16 Jun 94
Calcium	mg/L	91	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.97	0.05	200.7	15 Jun 94
Lead	mg/L	0.009	0.005	239.2	16 Jun 94
Magnesium	mg/L	25	0.05	200.7	15 Jun 94
Manganese	mg/L	0.85	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	14 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	82	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	180	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	110	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.44	0.10	340.2	21 Jun 94
Hardness	mg/L	330	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	0.443	0.100	353.2	20 Jun 94
Sulfate	mg/L	190	5.0	375.4	21 Jun 94
TDS	mg/L	650	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	903	1.0	120.1	09 Jun 94
Turbidity	NTU	6.8	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 31 Aug 94
Date Received: 01 Sep 94
Date Reported: 14 Sep 94
McKenzie ID: E94-7132
Corrected Report: 02 Dec 94

Client Identification: MV894-3

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	<0.010	0.010*	206.2	08 Sep 94
Barium	mg/L	0.06	0.05	200.7	08 Sep 94
Cadmium	mg/L	<0.0005	0.0005	213.2	12 Sep 94
Chromium	mg/L	0.017	0.005	218.2	12 Sep 94
Lead	mg/L	<0.005	0.005	239.2	12 Sep 94
Mercury	mg/L	0.0004	0.0002	245.1	06 Sep 94
Silver	mg/L	<0.005	0.005	272.2	08 Sep 94
Selenium	mg/L	<0.005	0.005	270.2	12 Sep 94
Non-Metals					
Fluoride	mg/L	0.44	0.10	340.2	07 Sep 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	06 Sep 94
Turbidity	mg/L	27	0.02	180.1	01 Sep 94

MRL = Minimum Reporting Limit

*Increased MRL due to matrix interference.

Maja Chadwick, Inorganic Lab Manager

ADEQ7130.DOC/sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 31 Aug 94
Date Received: 01 Sep 94
Date Reported: 11 Oct 94
McKenzie I.D.: E94-7132

Client Identification: MW894-3

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Calcium	mg/L	120	0.10	200.7	04 Oct 94
Copper	mg/L	<0.05	0.05	200.7	04 Oct 94
Iron	mg/L	0.35	0.05	200.7	04 Oct 94
Magnesium	mg/L	26	0.20	200.7	04 Oct 94
Manganese	mg/L	0.85	0.05	200.7	04 Oct 94
Sodium	mg/L	97	1.0	200.7	04 Oct 94
Zinc	mg/L	<0.05	0.05	200.7	04 Oct 94
Non-Metals					
Chloride	mg/L	140	5.0	325.2	26 Sep 94
Hardness	mg/L	410	1	200.7	04 Oct 94
Sulfate	mg/L	250	5.0	375.4	04 Oct 94

MRL = Minimum Reporting Limit

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE7130a.DOC sl

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 06 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11007

Client Identification: MV1294-40

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.5	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	0.07	0.05	200.7	16 Dec 94
Cadmium	mg/L	0.0021	0.0005	213.2	22 Dec 94
Calcium	mg/L	110	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.73	0.05	200.7	16 Dec 94
Lead	mg/L	0.006	0.005	239.2	21 Dec 94
Magnesium	mg/L	26	0.20	200.7	16 Dec 94
Manganese	mg/L	0.72	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	98	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	180	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	120	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.47	0.10	340.2	16 Dec 94
Hardness	mg/L	380	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	30 Dec 94
Sulfate	mg/L	270	5.0	375.4	29 Dec 94
TDS	mg/L	690	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	1,154	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC:sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

January 3, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA:	52000	Sample Name:	
PROJECT/PH:	994600-01	Station:	
GRANT/PH:	N/A	Date Sampled:	12/06/94
SITE ID:	MV1294-41	Time Sampled:	16:18:00
PWS NUMBER:		Date Lab Rec:	12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
354		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.63	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	4.2	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	0.0014	mg/l	1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	0.007	mg/l	1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/27/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/23/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	169	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.68		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	697	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	367	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	110	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	25.5	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	67.9	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ed and Approved: Patricia A. Adler
ia A. Adler, Manager
of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1354		*								
	12/16/94	* Copper	0.013	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	0.55	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	0.72	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 239.1	0.05	mg/l		
	12/20/94	* Chloride	124	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	222	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

2 of 2

WELL# 21177

MV694-02, MV1294-46

MCKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 06 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4177
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-02

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	8.3	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	14	0.05	200.7	15 Jun 94
Chromium	mg/L	0.008	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	<0.05	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	1.7	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	14 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	63	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	110	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	<5.0	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.51	0.10	340.2	21 Jun 94
Hardness	mg/L	42	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	5.25	0.100	353.2	20 Jun 94
Sulfate	mg/L	40	5.0	375.4	21 Jun 94
TDS	mg/L	240	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	364	1.0	120.1	09 Jun 94
Turbidity	NTU	0.11	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadyick
Maja Chadyick, Inorganic Lab Manager

McKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11010

Client Identification: MV1294-46

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	8.0	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	0.009	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	15	0.05	200.7	16 Dec 94
Chromium	mg/L	0.017	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	<0.05	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	1.7	0.20	200.7	16 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	64	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	110	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	20	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.64	0.10	340.2	16 Dec 94
Hardness	mg/L	44	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	5.15	0.10	353.2	29 Dec 94
Sulfate	mg/L	51	5.0	375.4	29 Dec 94
TDS	mg/L	240	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	373	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC:sl

ATEL

Aqua Tech Environmental Laboratories Inc.

Client: MCKENZIE LABORATORIES
ATEL Sample No.: 94-16851-MEL
Date Sampled: 12/07/94
Date Received: 12/13/94
Date Extracted: 12/14/94
Date Analyzed: 01/03/95
Client ID: MV1294-46

Method: SW-846; 8270
Sample Type: WATER
Percent Solids:
Analyst: CAM
Project No.: MO 5506 ORG

Compound	Concentration - ug/l (ppb)
Chlorpyrifos	< 5.0
Malathion	< 5.0
Cypermethrin	< 5.0
Monocrotophos	< 50.0
Butifos	< 5.0
Ethyl Parathion	< 5.0
Methyl Parathion	< 5.0
Chlordimeform	< 5.0
Fluazifop-butyl	< 5.0
Azinphos-methyl	< 5.0
Methomyl	< 5.0
Permethrin	< 5.0
Trifluralin	< 5.0
Metribuzin	< 5.0
2,4-D	< 20.0

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

WELL# 21610

MV694-05, MV894-01, MV1294-38

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4186
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-05

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.8	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	0.06	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	190	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	<0.05	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	62	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	220	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	190	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	410	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.18	0.10	340.2	21 Jun 94
Hardness	mg/L	730	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	10.5	0.100	353.2	20 Jun 94
Sulfate	mg/L	420	5.0	375.4	21 Jun 94
TDS	mg/L	1,500	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	2,100	1.0	120.1	09 Jun 94
Turbidity	NTU	<0.02	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled:	07 Jun 94
Date Received:	08 Jun 94
Date Analyzed:	10 Jun 94
Date Reported:	22 Jun 94
McKenzie I.D.:	E94-4169
Units Reported:	µg/L (ppb)
Project No.:	994600-01
Project Name:	MOHAVE VALLEY

EPA 602

Compound	MV694-05	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	100	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 31 Aug 94
Date Received: 01 Sep 94
Date Reported: 14 Sep 94
McKenzie ID: E94-7130
Amended Report: 11 Oct 94
Corrected Report: 02 Dec 94

Client Identification: MV894-1

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	0.011	0.005	206.2	08 Sep 94
Barium	mg/L	0.06	0.05	200.7	08 Sep 94
Cadmium	mg/L	<0.0005	0.0005	213.2	12 Sep 94
Chromium	mg/L	<0.005	0.005	218.2	12 Sep 94
Lead	mg/L	<0.005	0.005	239.2	12 Sep 94
Mercury	mg/L	<0.0002	0.0002	245.1	06 Sep 94
Silver	mg/L	<0.005	0.005	272.2	08 Sep 94
Selenium	mg/L	<0.005	0.005	270.2	12 Sep 94
Non-Metals					
Fluoride	mg/L	0.18	0.10	340.2	07 Sep 94
Nitrate/Nitrite as N	mg/L	10.7	0.10	353.2	06 Sep 94
Turbidity	mg/L	0.04	0.02	180.1	01 Sep 94

MRL = Minimum Reporting Limit

Maja Chadwick, Inorganic Lab Manager

ADEQ7130.DOC:sl

MCKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
5033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 31 Aug 94
Date Received: 01 Sep 94
Date Reported: 11 Oct 94
McKenzie I.D.: E94-7130

Client Identification: MW894-1

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Calcium	mg/L	210	0.10	200.7	04 Oct 94
Copper	mg/L	<0.05	0.05	200.7	04 Oct 94
Iron	mg/L	<0.05	0.05	200.7	04 Oct 94
Magnesium	mg/L	60	0.20	200.7	04 Oct 94
Manganese	mg/L	<0.05	0.05	200.7	04 Oct 94
Sodium	mg/L	240	1.0	200.7	04 Oct 94
Zinc	mg/L	<0.05	0.05	200.7	04 Oct 94
Non-Metals					
Chloride	mg/L	390	5.0	325.2	26 Sep 94
Hardness	mg/L	770	1	200.7	04 Oct 94
Sulfate	mg/L	430	5.0	375.4	04 Oct 94

MRL = Minimum Reporting Limit

Maja Gradwick

Maja Gradwick, Inorganic Lab Manager

ADE7130a.DOC sl

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 06 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11005

Client Identification: MV1294-38

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.1	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	0.06	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	230	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	<0.05	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	72	0.20	200.7	16 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	240	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	180	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	410	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.17	0.10	340.2	16 Dec 94
Hardness	mg/L	870	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	18.1	0.10	353.2	29 Dec 94
Sulfate	mg/L	680	5.0	375.4	29 Dec 94
TDS	mg/L	1,700	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	2,520	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC:sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 06 Dec 94
Date Received: 09 Dec 94
Date Analyzed: 14 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11005
Units Reported: µg/L (ppb)

	EPA 602	
Compound	MV1294-38	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
Fluorobenzene (PID)*	86	

MRL = Minimum Reporting Limit
ND = None Detected

* *Alternate surrogate used due to co-elution of primary surrogate.*

Scott J. Jordan, Organic Lab Manager

ADE11005.DOC/cap

WELL# 21806

MV694-36, MV1294-30, MV1294-31

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

July 28, 1994

PATTI TOWS	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	06/14/94
PHOENIX, AZ 85012		SITE ID:	MV694-36	Time Sampled:	09:48:00
		PWS NUMBER:		Date Lab Rec:	06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
9243		*								
	07/21/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	127	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	17.3	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	3.40	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.85		403	EPA 150.1	0.1	SU		
	06/21/94	* Hardness (CaCO3)	50	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	5.34	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	5.34	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	28.6	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	320	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	0.01	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	20.3	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	77.9	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	0.012	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/21/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	07/21/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	06/29/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Prepared and Approved: Patricia A. Adler

Patricia A. Adler, Manager
Section of Environmental and Technical Chemistry

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LI
38243	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

Reviewed and Approved:
Patricia A. Adler, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 3, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-30
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/06/94
Time Sampled: 11:49:00
Date Lab Rec: 12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
347		*								
	12/28/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	3.30	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	5.65	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	5.65	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.05	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	0.013	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/28/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	129	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.96		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	297	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/21/94	* Hardness (CaCO3)	49.8	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	19.6	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	70.9	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ed and Approved:
ia A. Adler, Manager
of Environmental and Analytical Chemistry

1/9/2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1347		*								
	12/16/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	17.8	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	32.2	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ewed and Approved: Patricia A. Miller 2/9/2
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

McKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 06 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11004

Client Identification: MV1294-31

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.8	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	0.021	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	20	0.05	200.7	16 Dec 94
Chromium	mg/L	0.006	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	<0.05	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	0.46	0.20	200.7	16 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	78	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	140	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	21	5.0	325.2	03 Jan 95
Fluoride	mg/L	3.3	0.10	340.2	15 Dec 94
Hardness	mg/L	52	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	6.20	0.10	353.2	29 Dec 94
Sulfate	mg/L	34	5.0	375.4	29 Dec 94
TDS	mg/L	280	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	429	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC:sl

WELL# 21807

MV694-34, MV694-35, MV1294-32

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

July 15, 1994

PATTI TUVD	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:	
ADEQ	Custody: 7	PROJECT/PH:	994600-01	Station:	
1033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	06/14/94
PHOENIX, AZ 85012		SITE ID:	MV694-34	Time Sampled:	09:20:00
		PWS NUMBER:		Date Lab Rec:	06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN REPORTING L
18156		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	128	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	28.5	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/23/94	* Fluoride	3.81	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	8.07		403	EPA 150.1	0.1	SU		
	06/30/94	* Hardness (CaCO3)	32	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	5.08	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	5.08	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	35.6	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	361	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	ND		82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	13.1	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	96.4	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	0.017	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/27/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	0.015	mg/l	1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/28/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/27/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/27/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/05/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A. Adler 7/12
Patricia A. Adler, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
06/27/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

Approved:
[illegible], Manager
Chemical and Analytical [illegible]

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 14, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TOVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PE: 994600-01
GRANT/PE: N/A
SITE ID: MW694-35
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/14/94
Time Sampled: 09:25:00
Date Lab Rec: 06/15/94

te: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

ments: None

-- ANALYTICAL RESULTS --

#	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
2		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	126	mg/l	419	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	28.5	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	3.56	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	8.08		403	EPA 150.1	0.1	SU		
	06/21/94	* Hardness (CaCO3)	32.0	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	5.07	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	5.07	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	36.0	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	348	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	0.02	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/16/94	* Calcium	12.3	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/16/94	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/16/94	* Sodium	95.9	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/05/94	* Arsenic	0.019	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/23/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	0.016	mg/l	1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/23/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	06/27/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	

and Approved: Patricia A. Adler
A. Adler, Manager
Environmental and Industrial Chemistry 7/9/2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
88142	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

ewed and Approved: Patricia A Adler 6-23-94
ricia A. Adler, Manager
ce of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 3, 1995

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	52000	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	12/06/94
PHOENIX, AZ 85012		SITE ID:	MV1294-32	Time Sampled:	12:07:00
		PWS NUMBER:		Date Lab Rec:	12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING L
1348		*								
	12/28/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	3.62	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	5.36	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	5.36	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.26	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	0.018	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	0.019	mg/l	1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/28/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/23/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	133	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	8.14		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	338	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	33.2	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	12.7	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	84.2	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

eved and Approved: Patricia A. Adler
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

192

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
1348		*								
	12/16/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	28.4	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	40.0	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ewed and Approved: Patricia A. Adler
:cia A. Adler, Manager
:e of Environmental and Analytical Chemistry

292

WELL# 21809

MV694-33, MV1294-37

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 15, 1994 BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TOVE	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:
ADEQ	Custody: Y	PROJECT/PE:	994600-01	Station:
3033 N. CENTRAL	Priority:2	GRANT/PE:	N/A	Date Sampled: 06/14/94
PHOENIX, AZ 85012		SITE ID:	MV694-33	Time Sampled: 00:55:00
		PWS NUMBER:		Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LI
8235		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	81.8	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/23/94	* Fluoride	1.71	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.72		403	EPA 150.1	0.1	SU		
	06/30/94	* Hardness (CaCO3)	285	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	4.79	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	4.79	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	133	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	1030	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	9.0	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	86.7	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	16.4	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	247	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/27/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/27/94	* Iron	1.01	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/27/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71300/71390	EPA 245.1	0.0005	mg/l	NA	
	07/05/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	06/23/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	

Reviewed and Approved: Patricia J. Adler

Patricia A. Adler, Manager

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
5235	06/27/94	* Zinc	0.07	mg/l	1092/1090	EPA 289.1	0.05	mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	06/17/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	06/24/94	* Chloride	38.2	mg/l	940	Std Meth 407C	1.0	mg/l	NA	

ved and Approved: Patricia Adler
tia A. Adler, Manager
e of Environmental and Analytical Services
2-9-2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 3, 1995

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	52000	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	12/06/94
PHOENIX, AZ 85012		SITE ID:	MV1294-37	Time Sampled:	13:21:00
		PWS NUMBER:		Date Lab Rec:	12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
1353		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	1.19	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	5.49	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	5.49	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.45	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/27/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/23/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	94.0	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.87		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	966	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	387	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	91.5	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	18.0	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	197	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ewed and Approved: Patricia A. Adler
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

1/2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING L
1353		*								
	12/16/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	0.14	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	381	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	153	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ewed and Approved: Patricia C Collen
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

2g2

WELL# 45994

MV694-57, MV1294-07

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

August 23, 1994 — BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TOVE	TYPE OF SAMPLE: GROUND WATER	PCN:	46141	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	06/27/94
PHOENIX, AZ 85012		SITE ID:	AV694-57	Time Sampled:	09:30:00
		PWS NUMBER:		Date Lab Rec:	06/29/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: SELENIUM SPIKE RECOVERY WAS 82%.
EXCEEDED RECOMMENDED HOLDING TIME FOR pH, TURBIDITY AND TDS.
CORRECTED REPORT FOR DATE RECEIVED.

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT		SYSTEM NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
8478		*								
	07/18/94	SDW ALL INORGANICS								
	06/29/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/29/94	* Alkalinity, Total	222	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	07/11/94	* Chloride	201	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	07/05/94	* Fluoride	0.22	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/29/94	* pH	8.03		403	EPA 150.1	0.1	SU		
	07/05/94	* Hardness (CaCO3)	622	mg/l	900	EPA 130.2	10	mg/l	NA	
	07/18/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/29/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	07/18/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	07/06/94	* Sulfate (SO4)	447	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	07/05/94	* Total Dissolved Solids	1390	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/29/94	* Turbidity	4.7	NTU	82079	EPA 180.1	0.01	NTU	NA	
	07/05/94	* Calcium	179	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	07/05/94	* Magnesium	45.5	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	07/05/94	* Sodium	172	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/12/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/05/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	07/11/94	* Copper	0.010	mg/l	1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/14/94	* Iron	0.64	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	07/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/12/94	* Manganese	0.92	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	07/07/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/07/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	

eved and Approved: Patricia Adler, RP
tia A. Adler, Manager
e of Environmental and Analytical Chemistry
1/92

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LI
38478	07/08/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	07/05/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/14/94	2,4-D	ND < 20 ug/l					
		*						
	07/11/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	07/01/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/11/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

Reviewed and Approved: Patricia Adler, RP
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

7/12

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

January 24, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA:	52000	Sample Name:	
PROJECT/PH:	994600-01	Station:	
GRANT/PH:	N/A	Date Sampled:	11/30/94
SITE ID:	MV1294-07	Time Sampled:	09:13:00
PWS NUMBER:		Date Lab Rec:	12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY. DUE TO INSTRUMENTATION PROBLEMS, THE ANALYSIS OF 2,4-D EXCEEDED THE HOLDING TIME BY 3 DAYS. THE ANALYSIS OF ALL OTHER ANALYTES DID MEET THE HOLDING TIMES.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
11386		*								
	12/12/94	SDW PRIMARY STANDARDS								
	12/06/94	* Fluoride	0.24	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	8.7	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/06/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	242	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	7.95		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	1540	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/09/94	* Hardness (CaCO3)	745	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	218	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	55.2	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	192	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ewed and Approved: Patricia A. Adler
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

192

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
326		*								
	12/14/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	0.65	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	* Manganese	0.99	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	231	mg/l	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	554	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/17/95	2,4-D	ND < 20	ug/l						
		*See Comments								
	01/11/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/11/95	*Ft. Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See cover letter							
		* SAMPLE PREPARATION:								
	12/06/94	*Ft. Mohave pesticides	SW 846 Method 3510							
	12/05/94	*2,4-D	EPA Method 515.1							
	01/11/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

d and Approved: Patricia A. Adler
A. Adler, Manager
of Environmental and Analytical Chemistry

292

WELL# 45997

MV694-54, MV1294-10, MV1294-11

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

August 11, 1994

PATTI TUTE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV694-54
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/27/94
Time Sampled: 07:54:00
Date Lab Rec: 06/29/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR pH, TURBIDITY, AND TDS.
CORRECTED REPORT FOR DATE RECEIVED.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
108475		*								
	07/18/94	SDW ALL INORGANICS								
	06/29/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/29/94	* Alkalinity, Total	309	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	07/11/94	* Chloride	320	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	07/05/94	* Fluoride	0.23	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/29/94	* pH	7.77		403	EPA 150.1	0.1	SU		
	07/05/94	* Hardness (CaCO3)	1070	mg/l	900	EPA 130.2	10	mg/l	NA	
	07/18/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/29/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	07/18/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	07/06/94	* Sulfate (SO4)	702	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	07/05/94	* Total Dissolved Solids	2110	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/29/94	* Turbidity	6.2	NTU	82079	EPA 180.1	0.01	NTU	NA	
	07/05/94	* Calcium	279	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	07/05/94	* Magnesium	72.6	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	07/05/94	* Sodium	232	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/18/94	* Arsenic	0.011	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/12/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/05/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/05/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	07/11/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/14/94	* Iron	0.72	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	07/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/12/94	* Manganese	1.11	mg/l	1055/1055	EPA 200.7/243.1	0.05	mg/l	NA	
	07/07/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/07/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A. Adler 8/12/94
Patricia A. Adler, Manager
Section of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING
38475	07/08/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	07/05/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/14/94	2,4-D	ND < 20 ug/l					
		*						
	07/11/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	07/01/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/11/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						

Reviewed and Approved: Patricia Adler/RP
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

242

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

January 24, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007

(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-10
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 11/30/94
Time Sampled: 10:39:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY. DUE TO INSTRUMENTATION PROBLEMS, THE ANALYSIS OF 2,4-D EXCEEDED THE HOLDING TIME BY 3 DAYS. THE ANALYSIS OF ALL OTHER ANALYTES DID MEET THE HOLDING TIMES.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1389		*								
	12/12/94	SDW PRIMARY STANDARDS								
	12/08/94	* Fluoride	0.22	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	9.2	mg/l	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	0.010	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND < 0.002	mg/l	1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	341	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	7.92		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	2360	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/09/94	* Hardness (CaCO3)	1,270	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	349	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	90.6	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	261	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

192

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
329		*								
	12/14/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	0.90	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	* Manganese	1.15	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	0.25	mg/l		
	12/06/94	* Chloride	364	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	952	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/17/95	2,4-D	ND < 20	ug/l						
		*See Comments								
	01/11/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/11/95	*Ft. Mohave pesticides	ND							
		* TARGET CMPDS./EST. POL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/06/94	*Ft. Mohave pesticides	SW 846 Method 3510							
	12/05/94	*2,4-D	EPA Method 515.1							
	01/11/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

ed and Approved: Patricia Miller
ia A. Adler, Manager
of Environmental and Analytical Chemistry

292

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 24, 1995

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	52000	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	11/30/94
PHOENIX, AZ 85012		SITE ID:	MV1294-11	Time Sampled:	11:44:00
		PWS NUMBER:		Date Lab Rec:	12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY. DUE TO INSTRUMENTATION PROBLEMS, THE ANALYSIS OF 2,4-D EXCEEDED THE HOLDING TIME BY 3 DAYS. THE ANALYSIS OF ALL OTHER ANALYTES DID MEET THE HOLDING TIMES.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1310		*								
	12/12/94	SDW PRIMARY STANDARDS								
	12/08/94	* Fluoride	0.22	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	7.8	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	0.011	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND < 0.002	mg/l	1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	345	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	7.84		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	2380	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/13/94	* Hardness (CaCO3)	1,290	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	353	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	90.8	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	254	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler 1/92
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
310		*								
	12/14/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	0.91	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	* Manganese	1.14	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	431	mg/l	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	956	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/17/95	2,4-D	ND < 20	ug/l						
		*See Comments								
	01/11/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/11/95	*Ft. Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/06/94	*Ft. Mohave pesticides	SW 846 Method 3510							
	12/05/94	*2,4-D	EPA Method 515.1							
	01/11/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

ed and Approved: Patricia A. Adler 2/2
ia A. Adler, Manager
of Environmental and Analytical Chemistry

WELL# 45998

MV694-55, MV1294-09

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

August 23, 1994 — BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: AV694-55
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/27/94
Time Sampled: 08:19:00
Date Lab Rec: 06/29/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR pH, TURBIDITY, AND TDS.
CORRECTED REPORT FOR DATE RECEIVED.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN REPORTING L
38476		*								
	07/13/94	SDW ALL INORGANICS								
	06/29/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/29/94	* Alkalinity, Total	291	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	07/11/94	* Chloride	216	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	07/05/94	* Fluoride	0.27	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/29/94	* pH	8.09		403	EPA 150.1	0.1	SU		
	07/05/94	* Hardness (CaCO3)	669	mg/l	900	EPA 130.2	10	mg/l	NA	
	07/18/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/29/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	07/18/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	07/06/94	* Sulfate (SO4)	506	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	07/05/94	* Total Dissolved Solids	1600	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/29/94	* Turbidity	5.7	NTU	82079	EPA 180.1	0.01	NTU	NA	
	07/05/94	* Calcium	184	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	07/05/94	* Magnesium	51.5	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	07/05/94	* Sodium	234	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/18/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/12/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/05/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	07/11/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/14/94	* Iron	0.93	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	07/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/12/94	* Manganese	0.77	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	07/07/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/07/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia Adler, LEP
Patricia A. Adler, Manager

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
8476	07/08/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	07/05/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/14/94	2,4-D	ND < 20 ug/l					
		*						
	07/11/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	07/01/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/11/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

Reviewed and Approved: Patricia Adler, RP
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

January 24, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007

(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-09
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 11/30/94
Time Sampled: 10:13:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY. DUE TO INSTRUMENTATION PROBLEMS, THE ANALYSIS OF 2,4-D EXCEEDED THE HOLDING TIME BY 3 DAYS. THE ANALYSIS OF ALL OTHER ANALYTES DID MEET THE HOLDING TIMES.

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
308		*								
	12/23/94	SDW PRIMARY STANDARDS								
	12/08/94	* Fluoride	0.27	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	0.8	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71896	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND < 0.002	mg/l	1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	233	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	7.74		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	1510	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/09/94	* Hardness (CaCO3)	786	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	199	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	55.2	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	285	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum		ND	1105/1106	EPA 202.1	0.50	mg/l		

ved and Approved: Patricia V. Adler 1/92
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1388		*								
	12/14/94	* Copper	ND		1042/1043	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	0.98	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	* Manganese	0.71	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1093	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	202	mg/l	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	638	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/17/95	2,4-D	ND < 20	ug/l						
		*See Comments								
	01/11/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/11/95	*Ft. Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/06/94	*Ft. Mohave pesticides	SW 846 Method 3510							
	12/05/94	*2,4-D	EPA Method 515.1							
	01/11/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

ewed and Approved: Patricia A. Adler
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

272

WELL# 45999

MV694-58, MV1294-06

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

August 23, 1994 — BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TOVE	TYPE OF SAMPLE: GROUND WATER	PCN:	46141	Sample Name:
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled: 06/27/94
PHOENIX, AZ 85012		SITE ID:	MV694-58	Time Sampled: 09:57:00
		PWS NUMBER:		Date Lab Rec: 06/29/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR pH, TURBIDITY AND TDS.
CORRECTED REPORT FOR DATE RECEIVED.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
83479		*								
	07/17/94	SDW ALL INORGANICS								
	06/29/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/29/94	* Alkalinity, Total	163	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	07/11/94	* Chloride	89.3	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	07/05/94	* Fluoride	0.36	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/29/94	* pH	8.02		403	EPA 150.1	0.1	SU		
	07/05/94	* Hardness (CaCO3)	341	mg/l	900	EPA 130.2	10	mg/l	NA	
	07/18/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/29/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	07/18/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	07/06/94	* Sulfate (SO4)	237	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	07/05/94	* Total Dissolved Solids	757	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/29/94	* Turbidity	1.72	NTU	82079	EPA 180.1	0.01	NTU	NA	
	07/05/94	* Calcium	92.8	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	07/05/94	* Magnesium	28.4	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	07/05/94	* Sodium	99.2	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/11/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/05/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	07/11/94	* Copper	0.011	mg/l	1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/14/94	* Iron	0.37	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	07/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/13/94	* Manganese	0.50	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	07/07/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/07/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia Adler /RP
Patricia A. Adler, Manager
Section of Environmental and Analytical Chemistry

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN REPORTING L
38479	07/08/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	07/05/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/14/94	2,4-D	ND < 20 ug/l					
		*						
	07/11/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	07/01/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/11/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

eved and Approved: Patricia Adler/RP
ricia A. Adler, Manager
24-2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

January 24, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
AGEC
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-06
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 11/30/94
Time Sampled: 08:45:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY. DUE TO INSTRUMENTATION PROBLEMS, THE ANALYSIS OF 2,4-D EXCEEDED THE HOLDING TIME BY 3 DAYS. THE ANALYSIS OF ALL OTHER ANALYTES DID MEET THE HOLDING TIMES.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1305		*								
	12/23/94	SDW PRIMARY STANDARDS								
	12/08/94	* Fluoride	0.34	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	1.55	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND < 0.001	mg/l	71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	160	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	7.96		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	766	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/09/94	* Hardness (CaCO3)	375	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	101	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	31.5	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	97.1	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

eved and Approved: Patricia A Adler
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

12

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1305		*								
	12/14/94	* Copper	0.011	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	0.39	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	* Manganese	0.50	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	95.5	mg/l	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	307	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/17/95	2,4-D	ND < 20	ug/l						
		*See Comments								
	01/11/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/11/95	*Fort Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/06/94	*Fort Mohave pesticides	SW 846 Method 3510							
	12/05/94	*2,4-D	EPA Method 515.1							
	01/11/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

wed and Approved: Patricia Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

2 of 2

WELL# 46001

MV694-39, MV1294-67

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 26, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TOVE	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	06/14/94
PHOENIX, AZ 85012		SITE ID:	MV694-39	Time Sampled:	14:51:00
		PWS NUMBER:		Date Lab Rec:	06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN REPORTING LI
8146		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	270	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	423	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	0.22	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.69		403	EPA 150.1	0.1	SU		
	06/30/94	* Hardness (CaCO3)	797	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	549	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	1960	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	8.5	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	210	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	56.7	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	320	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND < 0.0025	mg/l	1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	1.16	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/20/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	0.73	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71890/71890	EPA 245.1	0.0005	mg/l	NA	
	06/29/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A. Adler 7/27
Patricia A. Adler, Manager
Section of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
11146	06/28/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/08/94	2,4-D	ND < 20 ug/l					
		*						
	07/01/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	06/22/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/01/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

February 6, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-67
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/13/94
Time Sampled: 12:18:00
Date Lab Rec: 12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1384		*								
	12/29/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.20	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/14/94	* Turbidity	5.6	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/29/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/20/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/19/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/19/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/28/94	* Selenium	ND < 0.10	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/19/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	01/12/95	SDW SECONDARY STANDARDS								
	12/14/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/14/94	* Alkalinity, Total	247	mg/l	410	EPA 310.1	2.0	mg/l		
	12/14/94	* pH	8.04		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	1660	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	723	mg/l	900	EPA 130.2	10	mg/l		
	01/09/95	* Calcium	203	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	01/09/95	* Magnesium	53.6	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	01/09/95	* Sodium	290	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	01/12/95	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

wed and Approved: Patricia Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

1/32

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
364		*								
	12/21/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/29/94	* Iron	0.54	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/29/94	* Manganese	0.61	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/29/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/21/94	* Chloride	392	mg/l	940	Std Meth 407	1.0	mg/l		
	01/09/95	* Sulfate (SO4)	511	mg/l	945	EPA 375.2	10.0	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/15/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/23/95	2,4-D	ND < 20	ug/l						
		*								
	01/25/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/25/95	*Fort Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/19/94	*2,4-D	EPA Method 515.1							
	12/21/94	*Fort Mohave pesticides	SW 846 Method 3510							
	01/25/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

eved and Approved: Patricia Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

WELL# 46059

MV694-12, MV1294-55

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 08 Jun 94
Date Received: 09 Jun 94
Date Reported: 30 Jun 94
McKenzie I.D.: E94-4253
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-12

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.9	N/A	150.1	09 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	0.11	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	220	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.62	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	83	0.05	200.7	15 Jun 94
Manganese	mg/L	0.74	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	360	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	180	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	760	5.0	325.2	23 Jun 94
Fluoride	mg/L	0.14	0.10	340.2	21 Jun 94
Hardness	mg/L	890	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	<0.100	0.100	353.2	20 Jun 94
Sulfate	mg/L	500	5.0	375.4	23 Jun 94
TDS	mg/L	2,100	5.0	160.1	14 Jun 94
Specific Conductance	µmhos/cm	3,110	1.0	120.1	21 Jun 94
Turbidity	NTU	0.18	0.02	180.1	10 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE4253.DOC:sl

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 08 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11016

Client Identification: MV1294-55

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.3	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	0.10	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	250	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.63	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	88	0.20	200.7	16 Dec 94
Manganese	mg/L	0.78	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	420	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	190	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	810	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.14	0.10	340.2	16 Dec 94
Hardness	mg/L	990	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	29 Dec 94
Sulfate	mg/L	390	5.0	375.4	29 Dec 94
TDS	mg/L	2,100	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	3,340	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC sl

ATEL

Aqua Tech Environmental Laboratories Inc.

Client: MCKENZIE LABORATORIES
ATEL Sample No.: 94-16857-MEL
Date Sampled: 12/08/94
Date Received: 12/13/94
Date Extracted: 12/14/94
Date Analyzed: 01/03/95
Client ID: MV1294-55

Method: SW-846; 8270
Sample Type: WATER
Percent Solids:
Analyst: CAM
Project No.: MO 5506 ORG

Compound	Concentration - ug/l (ppb)
Chlorpyrifos	< 5.0
Malathion	< 5.0
Cypermethrin	< 5.0
Monocrotophos	< 50.0
Butifos	< 5.0
Ethyl Parathion	< 5.0
Methyl Parathion	< 5.0
Chlordimeform	< 5.0
Fluazifop-butyl	< 5.0
Azinphos-methyl	< 5.0
Methomyl	< 5.0
Permethrin	< 5.0
Trifluralin	< 5.0
Metribuzin	< 5.0
2,4-D	< 20.0

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

WELL# 46060

MV694-37

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 26, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUTE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCN: 46141
PROJECT/PH: 984600-01
GRANT/PH: N/A
SITE ID: MV694-37
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/14/94
Time Sampled: 11:37:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
8044										
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	483	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	4080	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	0.22	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.27		403	EPA 150.1	0.1	SU		
	06/30/94	* Hardness (CaCO3)	3290	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	2060	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/15/94	* Total Dissolved Solids	9900	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	65	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	873	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	295	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	2074	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/29/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/23/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	5.58	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/20/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	2.57	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71889/71890	EPA 245.1	0.0005	mg/l	NA	
	07/05/94	* Selenium	ND < 0.005	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

1/92

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
3244	06/23/94	* Silver	ND		1077/1075	EPA 272.2	0.001 mg/l	NA ,	
	06/23/94	* Zinc	0.09	mg/l	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020			
	07/08/94	2,4-D	ND < 20	ug/l					
		*							
	07/01/94	CUSTOM GCMS							
		*							
		* ANALYTICAL RESULTS:							
		*Fort Mohave pesticides	ND						
		* TARGET CMPDS./EST. PQL	See Cover Letter						
	06/22/94	* SAMPLE PREPARATION:	SW 846 Method 3510						
	07/01/94	*ANALYTICAL METHOD	SW 846 Method 8270						
		*Cover Letter Enclosed?	Yes						
		*PLEASE NOTE: This is a							
		*customized test, unique							
		*for each sample. Contact							
		*the lab for QA or methods							
		*information.							
		*							

Reviewed and Approved: Patricia A. Adler 2 9 2

Patricia A. Adler, Manager

Office of Environmental and Technical Services

WELL# 46061

MV694-24, MV1294-56

MCKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 09 Jun 94
Date Received: 09 Jun 94
Date Reported: 30 Jun 94
McKenzie I.D.: E94-4261
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-24

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	8.0	N/A	150.1	09 Jun 94
Metals					
Arsenic	mg/L	0.007	0.005	206.2	15 Jun 94
Barium	mg/L	0.10	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	160	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.58	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	49	0.05	200.7	15 Jun 94
Manganese	mg/L	0.74	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	200	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	220	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	290	5.0	325.2	23 Jun 94
Fluoride	mg/L	0.21	0.10	340.2	21 Jun 94
Hardness	mg/L	600	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	<0.100	0.100	353.2	20 Jun 94
Sulfate	mg/L	400	5.0	375.4	23 Jun 94
TDS	mg/L	1,300	5.0	160.1	14 Jun 94
Specific Conductance	µmhos/cm	1,721	1.0	120.1	21 Jun 94
Turbidity	NTU	0.22	0.02	180.1	10 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Gadwick
Maja Gadwick, Inorganic Lab Manager

ADE4253.DOC/sl

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 08 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11017

Client Identification: MV1294-56

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.6	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	0.009	0.005	206.2	19 Dec 94
Barium	mg/L	0.08	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	170	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.61	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	49	0.20	200.7	16 Dec 94
Manganese	mg/L	0.73	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	210	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	230	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	320	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.18	0.10	340.2	16 Dec 94
Hardness	mg/L	630	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	29 Dec 94
Sulfate	mg/L	340	5.0	375.4	29 Dec 94
TDS	mg/L	1,300	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	2,160	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC/sl

ATEL

Aqua Tech Environmental Laboratories Inc.

Client: MCKENZIE LABORATORIES
ATEL Sample No.: 94-16858-MEL
Date Sampled: 12/08/94
Date Received: 12/13/94
Date Extracted: 12/14/94
Date Analyzed: 01/03/95
Client ID: MV1294-56

Method: SW-846; 8270
Sample Type: WATER
Percent Solids:
Analyst: CAM
Project No.: MO 5506 ORG

Compound	Concentration - ug/l (ppb)
Chlorpyrifos	< 5.0
Malathion	< 5.0
Cypermethrin	< 5.0
Monocrotophos	< 50.0
Butifos	< 5.0
Ethyl Parathion	< 5.0
Methyl Parathion	< 5.0
Chlordimeform	< 5.0
Fluazifop-butyl	< 5.0
Azinphos-methyl	< 5.0
Methomyl	< 5.0
Permethrin	< 5.0
Trifluralin	< 5.0
Metribuzin	< 5.0
2,4-D	< 20.0

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

WELL# 46062

MV694-45, MV1294-66

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

July 26, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 954600-01
GRANT/PH: N/A
SITE ID: MV694-45
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/15/94
Time Sampled: 09:30:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING L
8135		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	362	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	624	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	ND		951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.46		403	EPA 150.1	0.1	SU		
	06/21/94	* Hardness (CaCO3)	1390	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	1050	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	3310	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	16.4	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	365	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	110	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	495	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	1.51	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/20/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	1.42	mg/l	1055/1055	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/05/94	* Selenium	ND < 0.025	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

ewed and Approved: Patricia A Adler
icia A. Adler, Manager
te of Environmental and Analytical Chemistry 7/27/94

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
2225	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/07/94	2,4-D	ND < 20 ug/l					
		*						
	07/01/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
	07/01/94	*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	06/22/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/01/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

ewed and Approved: Patricia A. Adler 2/9/2
tricia A. Adler, Manager
au of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

February 6, 1995 BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-66
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/13/94
Time Sampled: 11:27:00
Date Lab Rec: 12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1353		*								
	12/29/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	ND		951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/14/94	* Turbidity	23	NTU	82079	EPA 180.1	0.01	NTU		
	12/22/94	* Arsenic	0.013	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/29/94	* Barium	ND	mg/l	1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/20/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/19/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/19/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/26/94	* Selenium	ND < 0.10	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/19/94	* Silver	ND < 0.002	mg/l	1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	01/09/95	SDW SECONDARY STANDARDS								
	12/14/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/14/94	* Alkalinity, Total	364	mg/l	410	EPA 310.1	2.0	mg/l		
	12/14/94	* pH	7.77		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	3350	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	1530	mg/l	900	EPA 130.2	10	mg/l		
	01/09/95	* Calcium	409	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	01/09/95	* Magnesium	121	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	01/09/95	* Sodium	517	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/30/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved:
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

172

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1363		*								
	12/21/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/29/94	* Iron	1.51	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/29/94	* Manganese	1.38	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/29/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/21/94	* Chloride	689	mg/l	940	Std Meth 407	1.0	mg/l		
	01/09/95	* Sulfate (SO4)	1260	mg/l	945	EPA 375.2	10.0	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/15/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/23/95	2,4-D	ND < 20	ug/l						
		*								
	01/26/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/26/95	*Fort Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/19/94	*2,4-D	EPA Method 515.1							
	12/21/94	*Fort Mohave pesticides	SW 846 Method 3510							
	01/26/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

ewed and Approved: Patricia A. Adler

:ia A. Adler, Manager
: of Environmental and Analytical Chemistry

2 of 2

WELL# 46066

MV694-04, MV1294-45

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 06 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4179
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-04

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	8.0	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	77	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	<0.05	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	29	0.05	200.7	15 Jun 94
Manganese	mg/L	0.06	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	0.006	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	87	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	150	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	72	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.29	0.10	340.2	21 Jun 94
Hardness	mg/L	310	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	0.240	0.100	353.2	20 Jun 94
Sulfate	mg/L	270	5.0	375.4	21 Jun 94
TDS	mg/L	630	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	838	1.0	120.1	09 Jun 94
Turbidity	NTU	0.59	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

McKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11009

Client Identification: MV1294-45

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.5	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	76	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	<0.05	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	26	0.20	200.7	16 Dec 94
Manganese	mg/L	0.06	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	89	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	150	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	69	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.32	0.10	340.2	16 Dec 94
Hardness	mg/L	300	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	0.284	0.10	353.2	29 Dec 94
Sulfate	mg/L	290	5.0	375.4	29 Dec 94
TDS	mg/L	620	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	923	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC sl

ATEL

Aqua Tech Environmental Laboratories Inc.

Client: MCKENZIE LABORATORIES
ATEL Sample No.: 94-16850-MEL
Date Sampled: 12/07/94
Date Received: 12/13/94
Date Extracted: 12/14/94
Date Analyzed: 01/03/95
Client ID: MV1294-45

Method: SW-846; 8270
Sample Type: WATER
Percent Solids:
Analyst: CAM
Project No.: MO 5506 ORG

Compound	Concentration - ug/l (ppb)
Chlorpyrifos	< 5.0
Malathion	< 5.0
Cypermethrin	< 5.0
Monocrotophos	< 50.0
Butifos	< 5.0
Ethyl Parathion	< 5.0
Methyl Parathion	< 5.0
Chlordimeform	< 5.0
Fluazifop-butyl	< 5.0
Azinphos-methyl	< 5.0
Methomyl	< 5.0
Permethrin	< 5.0
Trifluralin	< 5.0
Metribuzin	< 5.0
2,4-D	< 20.0

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

WELL# 46067

MV694-38, MV1294-69, MV1294-70

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 26, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PE:	N/A	Date Sampled:	06/14/94
PHOENIX, AZ 85012		SITE ID:	MV694-38	Time Sampled:	13:55:00
		PWS NUMBER:		Date Lab Rec:	06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN REPORTING L
38245		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	257	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	199	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	0.37	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.60		403	EPA 150.1	0.1	SU		
	06/30/94	* Hardness (CaCO3)	681	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	587	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	1520	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	22	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	176	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	55.6	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	210	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/05/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/28/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	2.01	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/28/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	0.93	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/05/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A Adler
Patricia A. Adler, Manager
Section of Environmental and Analytical Chemistry

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING L
8245	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/08/94	2,4-D	ND < 20 ug/l					
		*						
	07/01/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		*Phthalates	Present					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	06/22/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/01/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

eved and Approved: Patricia A Adler
icia A. Adler, Manager
e of Environmental and Analytical Chemistry 292

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

February 6, 1995 — BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	52000	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	12/13/94
PHOENIX, AZ 85012		SITE ID:	MV1294-69	Time Sampled:	14:48:00
		PWS NUMBER:		Date Lab Rec:	12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
365		*								
	12/29/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.35	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/14/94	* Turbidity	21	NTU	82079	EPA 180.1	0.01	NTU		
	12/22/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/29/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/20/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/19/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/19/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/26/94	* Selenium	ND < 0.025	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/19/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	01/12/95	SDW SECONDARY STANDARDS								
	12/14/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/14/94	* Alkalinity, Total	238	mg/l	410	EPA 310.1	2.0	mg/l		
	12/14/94	* pH	8.13		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	1300	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	666	mg/l	900	EPA 130.2	10	mg/l		
	01/09/95	* Calcium	175	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	01/09/95	* Magnesium	54.9	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	01/09/95	* Sodium	283	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	01/12/95	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia Adler 2/7/95
Patricia A. Adler, Manager
Bureau of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
385		*								
	12/21/94	* Copper	0.077	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/29/94	* Iron	2.92	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/29/94	* Manganese	0.78	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/29/94	* Zinc	0.09	mg/l	1092/1090	EPA 289.1	0.05	mg/l		
	12/21/94	* Chloride	170	mg/l	940	Std Meth 407	1.0	mg/l		
	01/09/95	* Sulfate (SO4)	524	mg/l	945	EPA 375.2	10.0	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/15/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/24/95	2,4-D	ND < 20	ug/l						
		*								
	01/25/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/25/95	*Fort Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/19/94	*2,4-D	EPA Method 515.1							
	12/21/94	*Fort Mohave pesticides	SW 846 Method 3510							
	01/25/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

ed and Approved: Patricia A. Adler
ia A. Adler, Manager
of Environmental and Analytical Chemistry

2 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

February 6, 1995

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	52000	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	12/13/94
PHOENIX, AZ 85012		SITE ID:	MV1294-70	Time Sampled:	15:59:00
		PWS NUMBER:		Date Lab Rec:	12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1365		*								
	01/05/95	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.38	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	01/05/95	* Nitrite-Nitrate Total N	ND < 0.50	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	01/05/95	* Nitrate as N (NO3-N)	ND <0.50	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/14/94	* Turbidity	21	NTU	82079	EPA 180.1	0.01	NTU		
	12/22/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/29/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/20/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/19/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/19/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/28/94	* Selenium	ND < 0.05	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/19/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	01/12/95	SDW SECONDARY STANDARDS								
	12/14/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/14/94	* Alkalinity, Total	241	mg/l	410	EPA 310.1	2.0	mg/l		
	12/14/94	* pH	7.69		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	1270	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	646	mg/l	900	EPA 130.2	10	mg/l		
	01/09/95	* Calcium	173	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	01/09/95	* Magnesium	53.8	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	01/09/95	* Sodium	200	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	01/12/95	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry
1/92

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

#	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
66		*								
	12/21/94	* Copper	Ø.Ø96	mg/l	1042/1040	EPA 220.1/220.2	Ø.10	mg/l		
	12/29/94	* Iron	2.26	mg/l	1045/1046	EPA 200.7/236.1	Ø.10	mg/l		
	12/29/94	* Manganese	Ø.76	mg/l	1055/1056	EPA 200.7/243.1	Ø.Ø5	mg/l		
	12/29/94	* Zinc	Ø.12	mg/l	1092/1090	EPA 289.1	Ø.Ø5	mg/l		
	12/21/94	* Chloride	169	mg/l	940	Std Meth 407	1.Ø	mg/l		
	Ø1/Ø9/95	* Sulfate (SO4)	521	mg/l	945	EPA 375.2	10.Ø	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/15/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	Ø1/24/95	2,4-D	ND < 2Ø	ug/l						
		*								
	Ø1/3Ø/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	Ø1/3Ø/95	*Fort Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/19/94	*2,4-D	EPA Method 515.1							
	12/21/94	*Fort Mohave pesticides	SW 846 Method 3510							
	Ø1/3Ø/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

d and Approved: Patricia Adler
a A. Adler, Manager
of Environmental and Analytical Chemistry

272

WELL# 46068

MV694-21, MV694-22, MV1294-48

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 09 Jun 94
Date Received: 09 Jun 94
Date Reported: 30 Jun 94
McKenzie I.D.: E94-4258
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-21

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.7	N/A	150.1	09 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	0.09	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	180	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.83	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	50	0.05	200.7	15 Jun 94
Manganese	mg/L	1.0	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	240	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	240	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	200	5.0	325.2	23 Jun 94
Fluoride	mg/L	0.20	0.10	340.2	21 Jun 94
Hardness	mg/L	660	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	<0.100	0.100	353.2	20 Jun 94
Sulfate	mg/L	720	5.0	375.4	23 Jun 94
TDS	mg/L	1,600	5.0	160.1	14 Jun 94
Specific Conductance	µmhos/cm	1,861	1.0	120.1	21 Jun 94
Turbidity	NTU	0.15	0.02	180.1	10 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave
Phoenix, AZ 85012

Date Sampled: 09 June 94
Date Received: 09 June 94
Date Analyzed: 14 June 94
Date Reported: 20 June 94
McKenzie I.D.: E94-4249
Units Reported: µg/L (ppb)
Project No.: 994600-01

EPA 602

Compound	MV694 - 21	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	86	

MRL = Minimum Reporting Limit
ND = None Detected

Scott Jordan, Organic Lab Manager

ADEQ4248.DOC/cap

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 09 Jun 94
Date Received: 09 Jun 94
Date Reported: 30 Jun 94
McKenzie I.D.: E94-4259
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-22

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.9	N/A	150.1	09 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	0.09	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	170	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.80	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	49	0.05	200.7	15 Jun 94
Manganese	mg/L	1.0	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	240	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	240	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	180	5.0	325.2	23 Jun 94
Fluoride	mg/L	0.21	0.10	340.2	21 Jun 94
Hardness	mg/L	630	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	0.190	0.100	353.2	20 Jun 94
Sulfate	mg/L	720	5.0	375.4	23 Jun 94
TDS	mg/L	1,600	5.0	160.1	14 Jun 94
Specific Conductance	µmhos/cm	1,856	1.0	120.1	21 Jun 94
Turbidity	NTU	0.12	0.02	180.1	10 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

ADE4253.DOC/sl

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 08 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11012

Client Identification: MV1294-48

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.4	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	0.07	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	200	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.63	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	52	0.20	200.7	16 Dec 94
Manganese	mg/L	1.0	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	270	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	260	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	220	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.19	0.10	340.2	16 Dec 94
Hardness	mg/L	710	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	29 Dec 94
Sulfate	mg/L	640	5.0	375.4	29 Dec 94
TDS	mg/L	1,600	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	2,140	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC:sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 08 Dec 94
Date Received: 09 Dec 94
Date Analyzed: 14 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11012
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-48	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
Fluorobenzene (PID)*	83	

MRL = Minimum Reporting Limit
ND = None Detected

* *Alternate surrogate used due to co-elution of primary surrogate.*

Scott J. Jordan, Organic Lab Manager

ADE11005.DOC/eap

ATEL

Aqua Tech Environmental Laboratories Inc.

Client: MCKENZIE LABORATORIES
ATEL Sample No.: 94-16853-MEL
Date Sampled: 12/08/94
Date Received: 12/13/94
Date Extracted: 12/14/94
Date Analyzed: 01/03/95
Client ID: MV1294-48

Method: SW-846; 8270
Sample Type: WATER
Percent Solids:
Analyst: CAM
Project No.: MO 5506 ORG

Compound	Concentration - ug/l (ppb)
Chlorpyrifos	< 5.0
Malathion	< 5.0
Cypermethrin	< 5.0
Monocrotophos	< 50.0
Butifos	< 5.0
Ethyl Parathion	< 5.0
Methyl Parathion	< 5.0
Chlordimeform	< 5.0
Fluazifop-butyl	< 5.0
Azinphos-methyl	< 5.0
Methomyl	< 5.0
Permethrin	< 5.0
Trifluralin	< 5.0
Metribuzin	< 5.0
2,4-D	< 20.0

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

WELL# 46069

MV694-46, MV1294-12

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 28, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994500-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	06/15/94
PHOENIX, AZ 85012		SITE ID:	MV694-46	Time Sampled:	10:15:00
		PWS NUMBER:		Date Lab Rec:	06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYSED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
9236										
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	235	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	324	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	0.45	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.89		403	EPA 150.1	0.1	SU		
	06/21/94	* Hardness (CaCO3)	394	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	242	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	1200	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	4.9	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	82.7	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	29.2	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	276	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	0.11	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/20/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	0.32	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	06/29/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
8236	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	06/17/94	2,4-D	ND < 20 ug/l					
		*						
	07/01/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
	07/01/94	*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	06/22/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/01/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

:wed and Approved: Patricia Adler
:cia A. Adler, Manager

202

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

January 24, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007

(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-12
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 11/30/94
Time Sampled: 14:24:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY. DUE TO INSTRUMENTATION PROBLEMS, THE ANALYSIS OF 2,4-D EXCEEDED THE HOLDING TIME BY 3 DAYS. THE ANALYSIS OF ALL OTHER ANALYTES DID MEET THE HOLDING TIMES.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1311		*								
	12/23/94	SDW PRIMARY STANDARDS								
	12/08/94	* Fluoride	0.48	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/05/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	1.70	NTU	82079	EPA 180.1	0.01	NTU		
	12/09/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/05/94	* Alkalinity, Total	231	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	8.06		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	1160	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/13/94	* Hardness (CaCO3)	343	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	84.0	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	30.3	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	254	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

12/92

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
311		*								
	12/14/94	* Copper	Ø.Ø11	mg/l	1042/1040	EPA 220.1/220.2	Ø.1Ø	mg/l		
	12/08/94	* Iron	Ø.17	mg/l	1045/1046	EPA 200.7/236.1	Ø.1Ø	mg/l		
	12/06/94	* Manganese	Ø.Ø5	mg/l	1055/1056	EPA 200.7/243.1	Ø.Ø5	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	Ø.Ø5	mg/l		
	12/06/94	* Chloride	324	mg/l	940	Std Meth 407	1.Ø	mg/l		
	12/07/94	* Sulfate (SO4)	260	mg/l	945	EPA 375.2	10.Ø	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	Ø1/17/95	2,4-D	ND < 2Ø	ug/l						
		*See Comments								
	Ø1/11/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	Ø1/11/95	*Ft. Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/Ø6/94	*Ft. Mohave pesticides	SW 846 Method 3510							
	12/Ø5/94	*2,4-D	EPA Method 515.1							
	Ø1/11/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

ed and Approved: Patricia A. Adler 2g2
ia A. Adler, Manager
of Environmental and Analytical Chemistry

WELL# 46070

MV694-40, MV1294-22

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

July 28, 1994

PATTI TOTE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PE: 994600-01
GRANT/PE: N/A
SITE ID: MW694-40
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/14/94
Time Sampled: 15:30:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

AR #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
8247		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	162	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	285	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	0.22	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.73		403	EPA 150.1	0.1	SU		
	06/30/94	* Hardness (CaCO3)	379	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	159	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/15/94	* Total Dissolved Solids	942	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	0.40	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	99.8	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	29.1	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	169	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/23/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	0.014	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/23/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	0.19	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/20/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	0.33	mg/l	1055/1055	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	06/29/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

wed and Approved: Patricia O Adler
tia A. Adler, Manager
e of Environmental and Analytical Chemistry 192

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1247	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/08/94	2,4-D	ND < 20 ug/l					
		*						
	07/05/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	06/22/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/05/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

wed and Approved: Patricia A. Adler
tia A. Adler, Manager
2/7/2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 24, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-22
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/01/94
Time Sampled: 15:15:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY. DUE TO INSTRUMENTATION PROBLEMS, THE ANALYSIS OF 2,4-D EXCEEDED THE HOLDING TIME BY 3 DAYS. THE ANALYSIS OF ALL OTHER ANALYTES DID MEET THE HOLDING TIMES.

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
312		*								
	12/12/94	SDW PRIMARY STANDARDS								
	12/08/94	* Fluoride	0.23	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/05/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	1.38	NTU	82079	EPA 180.1	0.01	NTU		
	12/09/94	* Arsenic	0.017	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/05/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/05/94	* Alkalinity, Total	152	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	8.16		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	938	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/13/94	* Hardness (CaCO3)	379	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	101	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	31.7	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	167	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ed and Approved: Patricia A. Adler
ia A. Adler, Manager
of Environmental and Analytical Chemistry

1/2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1312		*								
	12/14/94	* Copper	0.026	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	0.21	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	* Manganese	0.30	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	322	mg/l	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	167	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/17/95	2,4-D	ND < 20	ug/l						
		*See Comments								
	01/11/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/11/95	*Ft. Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/06/94	*Ft. Mohave pesticides	ND							
	12/05/94	*2,4-D	EPA Method 515.1							
	01/11/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

ewed and Approved: Patricia Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

WELL# 46074

MV694-48, MV1294-68

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 18, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:3

PCA: 46141
PROJECT/PH: 954600-01
GRANT/PH: N/A
SITE ID: MV694-48
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/15/94
Time Sampled: 14:14:00
Date Lab Rec: 06/16/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
8304		*								
	07/19/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/16/94	* Alkalinity, Total	161	mg/L	410	EPA 310.1	2.0	mg/l	NA	
	06/27/94	* Chloride	179	mg/L	940	Std Meth 407C	1.0	mg/l	NA	
	06/23/94	* Fluoride	0.44	mg/L	951	EPA 340.2	0.20	mg/l	NA	
	06/16/94	* pH	7.96		403	EPA 150.1	0.1	SU		
	07/01/94	* Hardness (CaCO3)	292	mg/L	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	5.53	mg/L	630	EPA 353.2	0.10	mg-N/l	NA	
	06/14/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	5.53	mg/L	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	309	mg/L	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	1020	mg/L	515	EPA 160.1	10	mg/l	NA	
	06/16/94	* Turbidity	0.73	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	80.6	mg/L	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	24.2	mg/L	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	221	mg/L	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	2.50	mg/l	N/A	
	07/18/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/27/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/12/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/21/94	* Copper	0.016	mg/L	1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/27/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/27/94	* Manganese	ND		1055.1055	EPA 200.7/243.1	0.05	mg/l	NA	
	06/29/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/19/94	* Selenium	ND <0.115	mg/L	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Section of Environmental and Analytical Chemistry 7/22

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING L
8384	06/24/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA ,	
	06/27/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

ved and Approved: Patricia Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

2 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 20, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-68
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/13/94
Time Sampled: 12:51:00
Date Lab Rec: 12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: SPIKE RECOVERY FOR SELENIUM WAS 69%.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1371		*								
	12/30/94	SDW PRIMARY STANDARDS								
	12/30/94	* Fluoride	0.46	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	5.70	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	5.70	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/14/94	* Turbidity	0.17	NTU	82079	EPA 180.1	0.01	NTU		
	12/22/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/29/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/20/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/19/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/19/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/26/94	* Selenium	ND < 0.25	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/19/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	01/12/95	SDW SECONDARY STANDARDS								
	12/14/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/14/94	* Alkalinity, Total	158	mg/l	410	EPA 310.1	2.0	mg/l		
	12/14/94	* pH	7.79		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	992	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/27/94	* Hardness (CaCO3)	304	mg/l	900	EPA 130.2	10	mg/l		
	01/09/95	* Calcium	80.9	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	01/09/95	* Magnesium	24.6	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	01/09/95	* Sodium	221	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	01/12/95	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia W. Adler 1/27
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

S #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
371		*								
	12/21/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/29/94	* Iron	0.11	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/29/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/29/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/21/94	* Chloride	176	mg/l	940	Std Meth 407	1.0	mg/l		
	01/09/95	* Sulfate (SO4)	517	mg/l	945	EPA 375.2	10.0	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/15/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ed and Approved: Patricia A. Adler
a A. Adler, Manager
of Environmental and Analytical Chemistry

272

WELL# 46075

MV694-25, MV1294-04

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

July 14, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV694-25
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/13/94
Time Sampled: 14:28:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY, pH, AND NITRITE.

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
137		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	149	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	107	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	0.45	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.88		403	EPA 150.1	0.1	SU		
	06/21/94	* Hardness (CaCO3)	364	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	ND < 0.20	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	ND < 0.20	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	265	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	768	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	0.02	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	93.3	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	27.6	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	114	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/26/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/20/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	0.06	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	06/29/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

d and Approved: Patricia A. Adler
a A. Adler, Manager
of Environmental and Analytical Chemistry

1/2

WELL# 46075

MV694-25, MV1294-04

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

July 14, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PE: 994600-01
GRANT/PE: N/A
SITE ID: MV694-25
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/13/94
Time Sampled: 14:28:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY, pH, AND NITRITE.

-- ANALYTICAL RESULTS --

LB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
287										
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	149	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	107	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	0.45	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.88		403	EPA 150.1	0.1	SU		
	06/21/94	* Hardness (CaCO3)	364	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	ND < 0.20	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	ND < 0.20	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	255	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	768	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	0.02	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	93.3	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	27.6	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	114	mg/l	939/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	ug/l	N/A	
	07/06/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/20/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	0.06	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71903/71890	EPA 245.1	0.0005	mg/l	NA	
	06/29/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Approved and Approved:
Patricia A. Adler, Manager
Section of Environmental and Analytical Chemistry

1/2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
8137	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

Reviewed and Approved: Patricia J. Adler 2-22

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

December 30, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-04
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 11/29/94
Time Sampled: 15:07:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR NITRITE AND TURBIDITY.

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
3388		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.50	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	0.02	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/05/94	* Alkalinity, Total	151	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	7.81		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	769	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/07/94	* Hardness (CaCO3)	358	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	97.2	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	29.5	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	109	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler 1/92
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1388		*								
	12/14/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	108	mg/l	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	301	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

2 of 2

WELL# 46076

MV694-59, MV1294-24

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 27, 1994

BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TOVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody:
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MW694-59
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/27/94
Time Sampled: 10:55:00
Date Lab Rec: 06/29/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: SELENIUM SPIKE RECOVERY WAS 76%.
EXCEEDED RECOMMENDED HOLDING TIME FOR pH, TURBIDITY AND TDS.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
9473										
	07/25/94	SDW ALL INORGANICS								
	06/29/94	Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l		NA
	06/29/94	Alkalinity, Total	212	mg/l	410	EPA 310.1	2.0	mg/l		NA
	07/11/94	Chloride	255	mg/l	940	Std Meth 407C	1.0	mg/l		NA
	07/05/94	Fluoride	0.23	mg/l	951	EPA 340.2	0.20	mg/l		NA
	06/29/94	pH	7.81		403	EPA 150.1	0.1	SU		
	07/05/94	Hardness (CaCO3)	617	mg/l	900	EPA 130.2	10	mg/l		NA
	07/18/94	Nitrite-Nitrate Total N	1.78	mg/l	630	EPA 353.2	0.10	mg-N/l		NA
	06/29/94	Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l		NA
	07/18/94	Nitrate as N (NO3-N)	1.78	mg/l	620	EPA 353.2	0.10	mg-N/l		N/A
	07/06/94	Sulfate (SO4)	322	mg/l	945	EPA 375.2	10.0	mg/l		NA
	07/05/94	Total Dissolved Solids	1240	mg/l	515	EPA 160.1	10	mg/l		NA
	06/29/94	Turbidity	0.08	NTU	82079	EPA 180.1	0.01	NTU		NA
	07/05/94	Calcium	164	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		NA
	07/05/94	Magnesium	50.1	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		NA
	07/05/94	Sodium	139	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		NA
	07/13/94	Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		N/A
	07/25/94	Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l		NA
	07/12/94	Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l		NA
	07/05/94	Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l		NA
	07/05/94	Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l		NA
	07/11/94	Copper	ND		1042/1040	EPA 220.1	0.010	mg/l		NA
	07/12/94	Iron	ND		1045/1046	EPA 200.7 236.1	0.10	mg/l		NA
	07/06/94	Lead	ND		1051/1049	EPA 239.1	0.005	mg/l		NA
	07/12/94	Manganese	ND		1055/1055	EPA 200.7 243.1	0.05	mg/l		NA
	07/07/94	Mercury	ND		71890/71890	EPA 245.1	0.0005	mg/l		NA
	07/07/94	Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l		NA

Reviewed and Approved: Patricia A. Adler

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

1 3 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
3473	07/08/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	07/05/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

wed and Approved: Bobbie A. Adler 2g2
bie A. Adler, Manager
e of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 3, 1995

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	52000	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	12/05/94
PHOENIX, AZ 85012		SITE ID:	MV1294-24	Time Sampled:	14:33:00
		PWS NUMBER:		Date Lab Rec:	12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1343		*								
	12/26/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.26	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/13/94	* Nitrite-Nitrate Total N	1.52	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/13/94	* Nitrate as N (NO3-N)	1.52	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.11	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/28/94	* Selenium	ND < 0.05	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	209	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.72		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	1270	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/15/94	* Hardness (CaCO3)	579	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	183	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	57.7	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	139	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1185/1186	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1343		*								
	12/16/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	278	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	427	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ved and Approved: Patricia A Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

WELL# 46077

MV694-01, MV1294-05

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 06 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4176
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-01

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.9	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	75	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	22 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	<0.05	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	26	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	14 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	210	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	180	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	230	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.34	0.10	340.2	21 Jun 94
Hardness	mg/L	290	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	3.10	0.100	353.2	20 Jun 94
Sulfate	mg/L	290	5.0	375.4	21 Jun 94
TDS	mg/L	960	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	1,450	1.0	120.1	09 Jun 94
Turbidity	NTU	1.1	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 29 Nov 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10799

Client Identification: MV1294-05

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	190	5.0	*SM-2320B	05 Dec 94
pH	SU	7.7	N/A	150.1	02 Dec 94
Calcium	mg/L	84	0.05	200.7	16 Dec 94
Chloride	mg/L	210	5.0	325.2	14 Dec 94
Fluoride	mg/L	0.34	0.10	340.2	16 Dec 94
Magnesium	mg/L	27	0.05	200.7	16 Dec 94
Hardness	mg/L	320	0.50	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	3.40	0.10	353.2	13 Dec 94
Sulfate	mg/L	270	5.0	375.4	14 Dec 94
TDS	mg/L	980	5.0	160.1	05 Dec 94
Specific Conductance	µmhos/cm	1,530	1.0	120.1	06 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC:sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 29 Nov 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10799

Client Identification: MV1294-05

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	0.010	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	09 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	<0.05	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	14 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	12 Dec 94
Silver	mg/L	<0.005	0.005	272.2	08 Dec 94
Sodium	mg/L	230	1.0	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94

MRL = Minimum Reporting Limit

Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC sl

WELL# 46078

MV694-47, MV1294-25

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 21, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TOVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:3

PCA: 40141
PROJECT/PH: 594400-01
GRANT/PH: N/A
SITE ID: AV694-47
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/15/94
Time Sampled: 13:47:00
Date Lab Rec: 06/16/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
3193										
	07/19/94	SDW ALL INORGANICS								
	06/16/94	' Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/16/94	' Alkalinity, Total	181	mg/L	410	EPA 310.1	2.0	mg/l	NA	
	06/27/94	' Chloride	172	mg/L	940	Std Meth 407C	1.0	mg/l	NA	
	06/23/94	' Fluoride	0.28	mg/L	951	EPA 340.2	0.20	mg/l	NA	
	06/16/94	' pH	7.74		403	EPA 150.1	0.1	SU		
	07/11/94	' Hardness (CaCO3)	385	mg/L	900	EPA 130.2	10	mg/l	NA	
	06/20/94	' Nitrite-Nitrate Total N	7.48	mg/L	630	EPA 353.2	0.10	mg-N/l	NA	
	06/14/94	' Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	' Nitrate as N (NO3-N)	7.48	mg/L	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	' Sulfate (SO4)	214	mg/L	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	' Total Dissolved Solids	915	mg/L	515	EPA 160.1	10	mg/l	NA	
	06/16/94	' Turbidity	0.05	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	' Calcium	104	mg/L	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	' Magnesium	33.8	mg/L	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	' Sodium	142	mg/L	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	' Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/15/94	' Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/27/94	' Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/05/94	' Cadmium	ND		1027/1035	EPA 213.2	0.0010	mg/l	NA	
	07/12/94	' Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/21/94	' Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/27/94	' Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	' Lead	0.006	mg/L	1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/27/94	' Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/29/94	' Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/19/94	' Selenium	ND <0.125	mg/L	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A Adler
Patricia A. Adler, Manager
Bureau of Environmental and Analytical Chemistry
7/22

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
8303	06/24/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/27/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

eved and Approved:
tia A. Adler, Manager
te of Environmental and Analytical Chemistry

2q2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

January 3, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007

(602) 542-6108

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	52000	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	12/05/94
PHOENIX, AZ 85012		SITE ID:	MV1294-25	Time Sampled:	15:14:00
		PWS NUMBER:		Date Lab Rec:	12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
344		*								
	12/28/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.32	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/13/94	* Nitrite-Nitrate Total N	7.23	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		515	EPA 353.2	0.10	mg-N/l	NA	
	12/13/94	* Nitrate as N (NO3-N)	7.23	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.21	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/28/94	* Selenium	ND < 0.025	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	183	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.65		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	894	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/21/94	* Hardness (CaCO3)	418	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	108	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	35.8	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	135	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ved and Approved: Patricia P. Calder

cia A. Adler, Manager

e of Environmental and Analytical Chemistry

12

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AS #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
344		*								
	12/16/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	184	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	255	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ewed and Approved: Patricia A. Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry
2g2

WELL# 46079

MV694-11, MV1294-20, MV1294-21

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4175
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-11

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.7	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	0.009	0.005	206.2	14 Jun 94
Barium	mg/L	0.11	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	180	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	<0.05	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	73	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	14 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	430	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	230	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	810	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.23	0.10	340.2	21 Jun 94
Hardness	mg/L	750	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	7.20	0.100	353.2	20 Jun 94
Sulfate	mg/L	350	5.0	375.4	21 Jun 94
TDS	mg/L	1,900	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	2,860	1.0	120.1	09 Jun 94
Turbidity	NTU	0.47	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Analyzed: 10 Jun 94
Date Reported: 22 Jun 94
McKenzie I.D.: E94-4170
Units Reported: µg/L (ppb)
Project No.: 994600-01
Project Name: MOHAVE VALLEY

EPA 602

Compound	MV694-11	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	98	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10804

Client Identification: MV1294-20

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	250	5.0	*SM-2320B	05 Dec 94
pH	SU	7.3	N/A	150.1	02 Dec 94
Calcium	mg/L	220	0.05	200.7	16 Dec 94
Chloride	mg/L	870	5.0	325.2	14 Dec 94
Fluoride	mg/L	0.20	0.10	340.2	16 Dec 94
Magnesium	mg/L	79	0.05	200.7	16 Dec 94
Hardness	mg/L	870	0.50	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	7.20	0.10	353.2	13 Dec 94
Sulfate	mg/L	310	5.0	375.4	14 Dec 94
TDS	mg/L	2,500	5.0	160.1	05 Dec 94
Specific Conductance	µmhos/cm	3,875	1.0	120.1	06 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADEQ0798.DOC sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10804

Client Identification: MV1294-20

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	0.016	0.005	206.2	19 Dec 94
Barium	mg/L	0.12	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Dec 94
Chromium	mg/L	0.009	0.005	218.2	09 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.21	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	14 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	12 Dec 94
Silver	mg/L	<0.005	0.005	272.2	08 Dec 94
Sodium	mg/L	560	1.0	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94

MRL = Minimum Reporting Limit

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Analyzed: 09 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: E94-10804
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-20	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	93	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE10800.DOC sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

December 30, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-21
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/01/94
Time Sampled: 14:58:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
41384		*								
	12/12/94	SDW PRIMARY STANDARDS								
	12/08/94	* Fluoride	0.28	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	6.06	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/05/94	* Nitrate as N (NO3-N)	6.06	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	1.22	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	0.11	mg/l	1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	0.012	mg/l	1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND < 0.002	mg/l	1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	247	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	7.65		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	2570	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/07/94	* Hardness (CaCO3)	902	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	234	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	53.0	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	490	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia Adler 1/9/2
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1384		*								
	12/14/94	* Copper	0.016	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	0.26	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	1000	mg/l	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	321	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ered and Approved: Patricia Adler
icia A. Adler, Manager
e of Environmental and Analytical Chemistry 2/2

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Analyzed: 09 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: E94-10805
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-21	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	93	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE10800.DOC:sl

WELL# 46080

MV694-49, MV1294-27

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 18, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:3	GRANT/PH:	N/A	Date Sampled:	06/15/94
PHOENIX, AZ 85012		SITE ID:	MV694-49	Time Sampled:	15:34:00
		PWS NUMBER:		Date Lab Rec:	06/16/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
8385		*								
	07/19/94	SDW ALL INORGANICS								
	06/16/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/16/94	* Alkalinity, Total	192	mg/L	410	EPA 310.1	2.0	mg/l	NA	
	06/27/94	* Chloride	140	mg/L	940	Std Meth 407C	1.0	mg/l	NA	
	06/23/94	* Fluoride	0.25	mg/L	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	8.02		403	EPA 150.1	0.1	SU		
	07/01/94	* Hardness (CaCO3)	400	mg/L	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	1.42	mg/L	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	1.42	mg/L	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	328	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	1030	mg/L	515	EPA 160.1	10	mg/l	NA	
	06/16/94	* Turbidity	0.26	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	113	mg/L	915/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	31.3	mg/L	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	173	mg/L	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/18/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/27/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	07/19/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/27/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/27/94	* Manganese	0.44	mg/L	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/29/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/18/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A. Adler 7/22
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1305	06/24/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/27/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

Reviewed and Approved: Patricia A Adler

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

2 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1346		*								
	12/16/94	* Copper	0.010	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	0.43	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	131	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	367	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ved and Approved: Patricia A. Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

WELL# 46081

MV694-14, MV694-15, MV1294-19

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4183
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-14

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.9	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	90	0.05	200.7	15 Jun 94
Chromium	mg/L	0.008	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.32	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	32	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	200	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	180	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	180	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.18	0.10	340.2	21 Jun 94
Hardness	mg/L	360	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	3.54	0.100	353.2	20 Jun 94
Sulfate	mg/L	370	5.0	375.4	21 Jun 94
TDS	mg/L	1,100	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	1,368	1.0	120.1	09 Jun 94
Turbidity	NTU	3.7	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Analyzed: 10 Jun 94
Date Reported: 22 Jun 94
McKenzie I.D.: E94-4166
Units Reported: µg/L (ppb)
Project No.: 994600-01
Project Name: MOHAVE VALLEY

EPA 602

Compound	MV694-14	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	89	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

MCKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4184
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-15

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.9	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	92	0.05	200.7	15 Jun 94
Chromium	mg/L	0.006	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.35	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	32	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	200	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	180	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	180	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.18	0.10	340.2	21 Jun 94
Hardness	mg/L	360	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	3.42	0.100	353.2	20 Jun 94
Sulfate	mg/L	390	5.0	375.4	21 Jun 94
TDS	mg/L	1,100	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	1,375	1.0	120.1	09 Jun 94
Turbidity	NTU	1.1	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Analyzed: 10 Jun 94
Date Reported: 22 Jun 94
McKenzie I.D.: E94-4167
Units Reported: µg/L (ppb)
Project No.: 994600-01
Project Name: MOHAVE VALLEY

EPA 602

Compound	MV694-15	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	99	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ4165.DOC/sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10803

Client Identification: MV1294-19

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	09 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.14	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	14 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	12 Dec 94
Silver	mg/L	<0.005	0.005	272.2	08 Dec 94
Sodium	mg/L	210	1.0	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94

MRL = Minimum Reporting Limit

Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC sl

MCKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Analyzed: 09 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: E94-10803
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-19	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	96	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE10800.DOC sl

WELL# 46082

MV694-10, MV1294-17

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4181
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-10

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	8.0	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	98	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	1.1	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	36	0.05	200.7	15 Jun 94
Manganese	mg/L	0.46	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	14 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	150	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	200	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	140	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.26	0.10	340.2	21 Jun 94
Hardness	mg/L	390	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	<0.100	0.100	353.2	20 Jun 94
Sulfate	mg/L	370	5.0	375.4	21 Jun 94
TDS	mg/L	950	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	1,203	1.0	120.1	09 Jun 94
Turbidity	NTU	7.7	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Analyzed: 10 Jun 94
Date Reported: 22 Jun 94
McKenzie I.D.: E94-4165
Units Reported: µg/L (ppb)
Project No.: 994600-01
Project Name: MOHAVE VALLEY

EPA 602

Compound	MV694-10	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	99	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10801

Client Identification: MV1294-17

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	200	5.0	*SM-2320B	05 Dec 94
pH	SU	7.7	N/A	150.1	02 Dec 94
Calcium	mg/L	150	0.05	200.7	16 Dec 94
Chloride	mg/L	180	5.0	325.2	14 Dec 94
Fluoride	mg/L	0.24	0.10	340.2	16 Dec 94
Magnesium	mg/L	51	0.05	200.7	16 Dec 94
Hardness	mg/L	580	0.50	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	13 Dec 94
Sulfate	mg/L	470	5.0	375.4	14 Dec 94
TDS	mg/L	1,300	5.0	160.1	05 Dec 94
Specific Conductance	µmhos/cm	1,773	1.0	120.1	06 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC:sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10801

Client Identification: MV1294-17

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	09 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.84	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	14 Dec 94
Manganese	mg/L	0.63	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	12 Dec 94
Silver	mg/L	<0.005	0.005	272.2	08 Dec 94
Sodium	mg/L	200	1.0	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94

MRL = Minimum Reporting Limit

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Analyzed: 10 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: E94-10801
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-17	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	98	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE10801.DOC sl

WELL# 46083

MV694-16, MV1294-15

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4185
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-16

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.7	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	0.0008	0.0005	213.2	16 Jun 94
Calcium	mg/L	310	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.64	0.05	200.7	15 Jun 94
Lead	mg/L	0.006	0.005	239.2	16 Jun 94
Magnesium	mg/L	130	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	550	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	240	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	690	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.17	0.10	340.2	21 Jun 94
Hardness	mg/L	1,300	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	9.63	0.100	353.2	20 Jun 94
Sulfate	mg/L	1,100	5.0	375.4	21 Jun 94
TDS	mg/L	3,200	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	3,565	1.0	120.1	09 Jun 94
Turbidity	NTU	0.72	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Analyzed: 10 Jun 94
Date Reported: 22 Jun 94
McKenzie I.D.: E94-4168
Units Reported: µg/L (ppb)
Project No.: 994600-01
Project Name: MOHAVE VALLEY

EPA 602

Compound	MV694-16	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	99	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ4165.DOC/si

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10800

Client Identification: MV1294-15

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	250	5.0	*SM-2320B	05 Dec 94
pH	SU	7.3	N/A	150.1	02 Dec 94
Calcium	mg/L	400	0.05	200.7	16 Dec 94
Chloride	mg/L	690	5.0	325.2	14 Dec 94
Fluoride	mg/L	0.16	0.10	340.2	16 Dec 94
Magnesium	mg/L	150	0.05	200.7	16 Dec 94
Hardness	mg/L	1,600	0.50	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	9.00	0.10	353.2	13 Dec 94
Sulfate	mg/L	1,600	5.0	375.4	14 Dec 94
TDS	mg/L	3,800	5.0	160.1	05 Dec 94
Specific Conductance	µmhos/cm	4,790	1.0	120.1	06 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10800

Client Identification: MV1294-15

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	09 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.28	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	14 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	12 Dec 94
Silver	mg/L	<0.005	0.005	272.2	08 Dec 94
Sodium	mg/L	690	1.0	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94

MRL = Minimum Reporting Limit

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Analyzed: 10 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: E94-10800
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-15	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	93	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE10800.DOC sl

WELL# 46084

MV694-13, MV1294-01, MV295-07

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4182
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-13

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.9	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	0.059	0.005	206.2	15 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	79	0.05	200.7	15 Jun 94
Chromium	mg/L	0.006	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.29	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	12	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	0.0003	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	180	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	120	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	280	5.0	325.2	13 Jun 94
Fluoride	mg/L	1.6	0.10	340.2	21 Jun 94
Hardness	mg/L	250	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	7.50	0.100	353.2	20 Jun 94
Sulfate	mg/L	120	5.0	375.4	21 Jun 94
TDS	mg/L	840	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	1,240	1.0	120.1	09 Jun 94
Turbidity	NTU	2.5	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 29 Nov 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10798

Client Identification: MV1294-01

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	0.109	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	09 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.57	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	14 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	12 Dec 94
Silver	mg/L	<0.005	0.005	272.2	08 Dec 94
Sodium	mg/L	190	1.0	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94

MRL = Minimum Reporting Limit

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 29 Nov 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10798

Client Identification: MV1294-01

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	130	5.0	*SM-2320B	05 Dec 94
pH	SU	7.6	N/A	150.1	02 Dec 94
Calcium	mg/L	88	0.05	200.7	16 Dec 94
Chloride	mg/L	320	5.0	325.2	14 Dec 94
Fluoride	mg/L	1.7	0.10	340.2	15 Dec 94
Magnesium	mg/L	13	0.05	200.7	16 Dec 94
Hardness	mg/L	270	0.50	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	7.50	0.10	353.2	13 Dec 94
Sulfate	mg/L	94	5.0	375.4	14 Dec 94
TDS	mg/L	840	5.0	160.1	05 Dec 94
Specific Conductance	µmhos/cm	1,367	1.0	120.1	06 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC:sl

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Reported: 22 Feb 95
McKenzie I.D.: E95-0978

Client Identification: MV295-07

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	120	5.0	*SM-2320B	09 Feb 95
pH	SU	7.5	N/A	150.1	08 Feb 95
Calcium	mg/L	89	0.05	200.7	20 Feb 95
Chloride	mg/L	280	5.0	325.2	13 Feb 95
Fluoride	mg/L	1.7	0.10	340.2	10 Feb 95
Magnesium	mg/L	12	0.05	200.7	20 Feb 95
Hardness	mg/L	270	0.50	200.7	20 Feb 95
Nitrate/Nitrite as N	mg/L	5.72	0.10	353.2	17 Feb 95
Sodium	mg/L	190	1.0	200.7	20 Feb 95
Sulfate	mg/L	100	5.0	375.4	09 Feb 95
TDS	mg/L	850	5.0	160.1	13 Feb 95
Specific Conductance	µmhos/cm	1,393	1.0	120.1	09 Feb 95

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick, Inorganic Lab Manager

ADEQ0976.DOC:sl

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Reported: 22 Feb 95
McKenzie I.D.: E95-0978

Client Identification: MV295-07

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	0.082	0.005	206.2	09 Feb 95
Barium	mg/L	<0.05	0.05	200.7	20 Feb 95
Cadmium	mg/L	<0.0005	0.0005	213.2	15 Feb 95
Chromium	mg/L	<0.005	0.005	218.2	13 Feb 95
Copper	mg/L	<0.05	0.05	200.7	20 Feb 95
Iron	mg/L	0.11	0.05	200.7	20 Feb 95
Lead	mg/L	<0.005	0.005	239.2	09 Feb 95
Manganese	mg/L	<0.05	0.05	200.7	20 Feb 95
Mercury	mg/L	0.0004	0.0002	245.1	20 Feb 95
Selenium	mg/L	<0.005	0.005	270.2	13 Feb 95
Silver	mg/L	<0.005	0.005	272.2	09 Feb 95
Zinc	mg/L	<0.05	0.05	200.7	20 Feb 95

MRL = Minimum Reporting Limit

Maja Gradwick

Maja Gradwick, Inorganic Lab Manager

ADEQ0976.DOC sl

WELL# 46085

MV694-61, MV1294-23, MV295-01

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 27, 1994

BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody:
Priority:2

PCA: 46141
PROJECT/PH: 994620-01
GRANT/PH: N/A
SITE ID: MV694-61
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/27/94
Time Sampled: 15:10:00
Date Lab Rec: 06/29/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR pH, TURBIDITY, AND TDS.

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
8474		*								
	07/25/94	SDW ALL INORGANICS								
	06/29/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/29/94	* Alkalinity, Total	153	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	07/11/94	* Chloride	313	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	07/05/94	* Fluoride	2.84	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/29/94	* pH	7.96		403	EPA 150.1	0.1	SU		
	07/05/94	* Hardness (CaCO3)	301	mg/l	900	EPA 130.2	10	mg/l	NA	
	07/18/94	* Nitrite-Nitrate Total N	7.19	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/29/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	07/18/94	* Nitrate as N (NO3-N)	7.19	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	07/06/94	* Sulfate (SO4)	229	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	07/05/94	* Total Dissolved Solids	1190	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/29/94	* Turbidity	0.41	NTU	82079	EPA 180.1	0.01	NTU	NA	
	07/05/94	* Calcium	105	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	07/05/94	* Magnesium	10.8	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	07/05/94	* Sodium	247	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/11/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/25/94	* Arsenic	0.017	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/11/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/05/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	07/11/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/14/94	* Iron	0.33	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	07/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/11/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	07/22/94	* Mercury	0.0015	mg/l	71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/07/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

eved and Approved: Patricia A. Adler
ia A. Adler, Manager
e of Environmental and Analytical Chemistry 7/27

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
3474	07/08/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	07/05/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

ewed and Approved: Patricia A Adler
ricia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 3, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-23
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/05/94
Time Sampled: 13:48:00
Date Lab Rec: 12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
1342		*								
	12/26/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	2.56	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/13/94	* Nitrite-Nitrate Total N	10.1	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/13/94	* Nitrate as N (NO3-N)	10.1	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.44	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	0.012	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	0.0017	mg/l	71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/28/94	* Selenium	ND < 0.025	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	150	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.93		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	1200	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/15/94	* Hardness (CaCO3)	371	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	126	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	12.9	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	257	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ewed and Approved: Patricia A Adler 1/9/2
ricia A. Adler, Manager
ice of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN REPORTING LMT
41342		*								
	12/16/94	* Copper	0.036	mg/l	1042/1043	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	0.15	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	342	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	275	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ieved and Approved: Patricia Adler
ricia A. Adler, Manager
ice of Environmental and Analytical Chemistry

2 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

March 15, 1995

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	92001	Sample Name:	MV295-01
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	02/06/95
PHOENIX, AZ 85012		SITE ID:		Time Sampled:	14:00:00
		PWS NUMBER:		Date Lab Rec:	02/08/95

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY, FLUORIDE AND TOTAL DISSOLVED SOLIDS.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER METHOD REPORTING LMT		SOLIDS METHOD REFERENCE	SOLID METHOD REPORTING LMT
852		*								
	03/14/95	SDW PRIMARY STANDARDS								
	03/14/95	* Fluoride	3.30	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	02/13/95	* Nitrite-Nitrate Total N	13.2	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	02/08/95	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	02/13/95	* Nitrate as N (NO3-N)	13.2	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	02/08/95	* Turbidity	0.13	NTU	92079	EPA 180.1	0.01	NTU		
	02/16/95	* Arsenic	0.015	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	02/13/95	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	02/14/95	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	02/10/95	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	02/10/95	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	02/10/95	* Mercury	0.0009	mg/l	71900/71890	EPA 245.1	0.0005	mg/l	NA	
	02/15/95	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	02/15/95	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	02/14/95	SDW SECONDARY STANDARDS								
	02/08/95	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	02/09/95	* Alkalinity, Total	134	mg/l	410	EPA 310.1	2.0	mg/l		
	02/06/95	* pH	7.52		403	EPA 150.1	0.1	SU		
	02/14/95	* Total Dissolved Solids	1,050	mg/l	515	EPA 160.1	10	mg/l		
		*								
	02/10/95	* Hardness (CaCO3)	283	mg/l	900	EPA 130.2	10	mg/l		
	02/13/95	* Calcium	94.0	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	02/13/95	* Magnesium	9.8	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	02/13/95	* Sodium	235	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	02/14/95	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved:

Cecilia A. Adler, Manager
Office of Environmental and Analytical Chemistry

1/2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER METHOD REPORTING LMT		SOLIDS METHOD REFERENCE	SOLID METHOD REPORTING LMT
852		*								
	02/09/95	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	02/13/95	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	02/13/95	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	02/13/95	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	02/08/95	* Chloride	295	mg/l	940	Std Meth 407	1.0	mg/l		
	02/13/95	* Sulfate (SO4)	218	mg/l	945	EPA 375.2	10.0	mg/l		
	02/09/95	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	02/09/95	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ed and Approved:
ia A. Adler, Manager
of Environmental and Analytical Chemistry

292

WELL# 46086

MV694-43, MV694-44, MV1294-57

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 26, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV694-43
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/15/94
Time Sampled: 08:20:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

#	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
50		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	124	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	359	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/23/94	* Fluoride	1.97	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.52		403	EPA 150.1	0.1	SU		
	06/30/94	* Hardness (CaCO3)	357	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	0.95	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	0.95	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	223	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	1160	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	0.04	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	108	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	18.8	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	231	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	0.018	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/27/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	ND		1043/1040	EPA 220.1	0.010	mg/l	NA	
	06/27/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/28/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/27/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/05/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

d and Approved:
a A. Adler, Manager
of Environmental and Analytical Chemistry

1/72

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
150	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/27/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/08/94	2,4-D	ND < 20 ug/l					
		*						
	07/05/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	06/22/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/05/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Section of Environmental and Analytical Chemistry

2g2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 26, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

BARRY ROVE	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
1333 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	06/15/94
PHOENIX, AZ 85012		SITE ID:	MW694-44	Time Sampled:	08:14:00
		PWS NUMBER:		Date Lab Rec:	06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
38149										
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	123	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	362	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	1.83	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.27		403	EPA 150.1	0.1	SU		
	06/30/94	* Hardness (CaCO3)	355	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	0.96	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/15/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	0.96	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	201	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	1110	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	0.05	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	108	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	18.8	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	228	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	0.018	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/22/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/23/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/23/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	ND		1055/1055	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71890/71890	EPA 245.1	0.0005	mg/l	NA	
	07/05/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A Adler

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry 192

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
3049	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/08/94	2,4-D	ND < 20 ug/l					
		*						
	07/05/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	06/22/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/05/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

Reviewed and Approved: Patricia A Adler 2 g 2
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

February 6, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-57
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/12/94
Time Sampled: 13:06:00
Date Lab Rec: 12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: SILVER SPIKE RECOVERY WAS 86%.
EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED		COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
361		*									
	12/29/94		SDW PRIMARY STANDARDS								
	12/27/94	*	Fluoride	1.33	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	*	Nitrite-Nitrate Total N	0.81	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	*	Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	*	Nitrate as N (NO3-N)	0.81	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/14/94	*	Turbidity	0.52	NTU	82079	EPA 180.1	0.01	NTU		
	12/22/94	*	Arsenic	0.022	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/29/94	*	Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/20/94	*	Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/19/94	*	Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*									
	12/19/94	*	Lead	0.005	mg/l	1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	*	Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/27/94	*	Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/19/94	*	Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*									
	01/09/95		SDW SECONDARY STANDARDS								
	12/14/94	*	Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/14/94	*	Alkalinity, Total	129	mg/l	410	EPA 310.1	2.0	mg/l		
	12/14/94	*	pH	7.91		403	EPA 150.1	0.1	SU		
	12/15/94	*	Total Dissolved Solids	1000	mg/l	515	EPA 160.1	10	mg/l		
		*									
	12/23/94	*	Hardness (CaCO3)	323	mg/l	900	EPA 130.2	10	mg/l		
	01/09/95	*	Calcium	101	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	01/09/95	*	Magnesium	17.8	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	01/09/95	*	Sodium	211	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/30/94	*	Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ed and Approved:
ia A. Adler, Manager
of Environmental and Analytical Chemistry

12

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
361		*								
	12/21/94	* Copper	0.014	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/29/94	* Iron	0.20	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/29/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/29/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/21/94	* Chloride	305	mg/l	940	Std Meth 407	1.0	mg/l		
	01/09/95	* Sulfate (SO4)	225	mg/l	945	EPA 375.2	10.0	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/15/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/23/95	2,4-D	ND < 20	ug/l						
		*								
	01/26/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/26/95	*Fort Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/19/94	*2,4-D	EPA Method 515.1							
	12/21/94	*Fort Mohave pesticides	SW 846 Method 3510							
	01/26/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

Reviewed and Approved:
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

292

WELL# 46088

MV694-27, MV1294-02

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

July 14, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 9946G0-01
GRANT/PH: N/A
SITE ID: MV694-27
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/13/94
Time Sampled: 15:10:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY, pH, AND NITRITE.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
8041		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	140	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	192	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	* Fluoride	0.78	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.74		403	EPA 150.1	0.1	SU		
	06/21/94	* Hardness (CaCO3)	364	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	0.69	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/15/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	0.69	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	296	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	975	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	0.55	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	103	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	24.1	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	171	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/05/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/22/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	0.021	mg/l	1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/20/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71890/71890	EPA 245.1	0.0005	mg/l	NA	
	07/05/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved:
Lois A. Adler, Manager
Office of Environmental and Analytical Chemistry
7/22

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

#	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
41	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

ed Approved: Patricia L Adler
. Adler, Manager
Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

December 30, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-02
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 11/29/94
Time Sampled: 13:56:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: SPIKE RECOVERY FOR COPPER WAS 82%
EXCEEDED RECOMMENDED HOLDING TIME FOR NITRITE AND TURBIDITY.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1298		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.63	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	1.07	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	1.07	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	0.84	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	0.011	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	170	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	7.83		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	1220	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/07/94	* Hardness (CaCO3)	556	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	146	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	38.3	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	172	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia O Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
298		*								
	12/14/94	* Copper	0.010	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	263	mg/l	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	384	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ed and Approved: Patricia A. Adler
ia A. Adler, Manager
of Environmental and Analytical Chemistry
2q2

WELL# 46089

MV694-42, MV1294-13

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 14, 1994 BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PAETZ TOVE	TYPE OF SAMPLE: GROUND WATER	PCA: 46141	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH: 994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH: N/A	Date Sampled:	06/14/94
PHOENIX, AZ 85012		SITE ID: MV994-42	Time Sampled:	16:55:00
		PWS NUMBER:	Date Lab Rec:	06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1240										
	07/06/94	SDW ALL INORGANICS								
	06/15/94	' Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	' Alkalinity, Total	144	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	' Chloride	84.1	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/22/94	' Fluoride	0.25	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	' pH	8.01		403	EPA 150.1	0.1	SU		
	06/21/94	' Hardness (CaCO3)	337	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	' Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	' Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	' Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	' Sulfate (SO4)	302	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	' Total Dissolved Solids	744	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	' Turbidity -	0.10	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	' Calcium	94.5	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	' Magnesium	23.4	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	' Sodium	99.4	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/28/94	' Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	' Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/23/94	' Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/29/94	' Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	' Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	' Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/23/94	' Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/28/94	' Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/23/94	' Manganese	0.57	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	' Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	06/27/94	' Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Bobbie A. Adler

Bobbie A. Adler, Manager
Office of Environmental and Analytical Chemistry

1/92

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
18240	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

Reviewed and Approved: Patricia A. Adler 2/7/2
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

December 30, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-13
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 11/30/94
Time Sampled: 16:36:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR NITRITE AND TURBIDITY.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN REPORTING LI
11301		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.29	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	0.16	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	148	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	8.03		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	733	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/07/94	* Hardness (CaCO3)	348	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	101	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	25.8	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	98.5	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

12/2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1381		*								
	12/14/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	* Manganese	0.58	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	88.8	mg/l	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	292	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

eved and Approved: Patricia Adler
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

292

WELL# 46090

MV694-28, MV1294-16

ARIZONA DEPARTMENT OF HEALTH SERVICES

July 14, 1994

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TOVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV694-28
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/13/94
Time Sampled: 16:20:00
Date Lab Rec: 06/15/94

te: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

ments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY, pH, AND NITRITE.

-- ANALYTICAL RESULTS --

DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
07/06/94	SDW ALL INORGANICS								
06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
06/15/94	* Alkalinity, Total	140	mg/l	410	EPA 310.1	2.0	mg/l	NA	
06/24/94	* Chloride	82.2	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
06/22/94	* Fluoride	0.31	mg/l	951	EPA 340.2	0.20	mg/l	NA	
06/15/80	* pH	8.00		403	EPA 150.1	0.1	SU		
06/21/80	* Hardness (CaCO3)	335	mg/l	900	EPA 130.2	10	mg/l	NA	
6/20/80	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
06/16/80	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
6/20/80	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
6/24/94	* Sulfate (SO4)	247	mg/l	945	EPA 375.2	10.0	mg/l	NA	
6/16/94	* Total Dissolved Solids	786	mg/l	515	EPA 160.1	10	mg/l	NA	
6/15/94	* Turbidity	1.55	NTU	82079	EPA 180.1	0.01	NTU	NA	
/17/94	* Calcium	91.5	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
17/94	* Magnesium	23.1	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
17/94	* Sodium	93.6	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
23/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
06/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
23/94	* Barium	0.13	mg/l	1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
23/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
22/94	* Copper	0.027	mg/l	1042/1040	EPA 220.1	0.010	mg/l	NA	
23/94	* Iron	0.26	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
20/94	* Lead	0.006	mg/l	1051/1049	EPA 239.2	0.005	mg/l	NA	
23/94	* Manganese	0.62	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
28/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

pproved: Patricia A Eddleman
ector, Manager
nvironmental and Analytical Chemistry

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1139	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/23/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

eved and Approved: Patricia A. Adler 2/92
tria A. Adler, Manager
ce of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

December 30, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-15
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/01/94
Time Sampled: 09:13:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
3303		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.38	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	0.32	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	0.010	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	0.12	mg/l	1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	143	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	8.29		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	725	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/07/94	* Hardness (CaCO3)	351	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	100	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	26.0	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	90.3	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

1/2

WELL# 46091

MV694-30, MV1294-33

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

July 15, 1994

PATTI TOVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV694-30
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/14/94
Time Sampled: 07:44:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
8192										
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l		NA
	06/15/94	* Alkalinity, Total	112	mg/l	410	EPA 310.1	2.0	mg/l		NA
	06/24/94	* Chloride	217	mg/l	940	Std Meth 407C	1.0	mg/l		NA
	06/23/94	* Fluoride	3.48	mg/l	951	EPA 340.2	0.20	mg/l		NA
	06/15/94	* pH	8.25		403	EPA 150.1	0.1	SU		
	06/20/94	* Hardness (CaCO3)	55	mg/l	900	EPA 130.2	10	mg/l		NA
	06/20/94	* Nitrite-Nitrate Total N	7.12	mg/l	630	EPA 353.2	0.10	mg-N/l		NA
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l		NA
	06/20/94	* Nitrate as N (NO3-N)	7.12	mg/l	620	EPA 353.2	0.10	mg-N/l		N/A
	06/24/94	* Sulfate (SO4)	74.4	mg/l	945	EPA 375.2	10.0	mg/l		NA
	06/16/94	* Total Dissolved Solids	705	mg/l	515	EPA 160.1	10	mg/l		NA
	06/15/94	* Turbidity	0.25	NTU	82079	EPA 180.1	0.01	NTU		NA
	06/17/94	* Calcium	18.4	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		NA
	06/17/94	* Magnesium	1.6	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		NA
	06/17/94	* Sodium	215	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		NA
	06/23/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		N/A
	07/06/94	* Arsenic	0.037	mg/l	1002/1000	EPA 206.2	0.010	mg/l		NA
	06/27/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l		NA
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l		NA
	06/21/94	* Chromium	0.023	mg/l	1034/1032	EPA 218.2	0.010	mg/l		NA
	06/20/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l		NA
	06/27/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		NA
	06/24/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l		NA
	06/27/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		NA
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l		NA
	07/05/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l		NA

Reviewed and Approved:

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

E #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
252	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/27/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

and Approved: Catherine A Adler 2/2
A. Adler, Manager
Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1349		*								
	12/16/94	* Copper	0.010	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	0.24	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	221	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	73.1	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

Reviewed and Approved: Patricia A. Adler

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

292

WELL# 46092

MV694-29, MV1294-34

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

July 15, 1994

PATTI TUTE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MW694-29
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/14/94
Time Sampled: 07:26:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a 'Save Sample' form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. 'ND' means none detected at the MRL specified. 'TR' means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
8251		*								
	07/06/94	SDW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	3.5	mg/l	415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	125	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	161	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/23/94	* Fluoride	5.10	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	8.51		403	EPA 150.1	0.1	SU		
	06/30/94	* Hardness (CaCO3)	35	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	8.12	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	8.12	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	87.1	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	656	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	0.02	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	11.7	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	1.1	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	206	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/29/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	0.115	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/27/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/28/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	0.029	mg/l	1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/20/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/27/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/27/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900-71890	EPA 245.1	0.0005	mg/l	NA	
	07/05/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved:

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

7/22

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
2251	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/27/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

wed and Approved: Patricia Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry
2y2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

January 3, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007

(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-34
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/06/94
Time Sampled: 12:40:00
Date Lab Rec: 12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1350		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	3.62	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	7.13	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	7.13	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.35	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	0.031	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	0.031	mg/l	1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/27/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/23/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	122	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	8.29		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	693	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	61.8	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	19.3	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	2.2	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	193	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ewed and Approved: Patricia A. Adler

icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

1g2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1350		*								
	12/16/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	0.10	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	218	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	87.5	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

xed and Approved:
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

WELL# 46093

MV694-32, MV1294-36

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

July 15, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV694-32
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/14/94
Time Sampled: 08:33:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
18284		*								
	07/06/94	SEW ALL INORGANICS								
	06/15/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	* Alkalinity, Total	111	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	* Chloride	421	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/23/94	* Fluoride	0.43	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	* pH	7.67		403	EPA 150.1	0.1	SU		
	06/30/94	* Hardness (CaCO3)	398	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	3.21	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	3.21	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	135	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	1200	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	* Turbidity	ND		82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	126	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	20.9	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	220	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/23/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/27/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/28/94	* Copper	0.024	mg/l	1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/27/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/27/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	06/29/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

1/92

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
1184	06/23/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/27/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

...ved and Approved: Patricia A. Adler 2/2
...ia A. Adler, Manager
...n of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 3, 1995

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	52000	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	12/06/94
PHOENIX, AZ 85012		SITE ID:	MV1294-36	Time Sampled:	13:00:00
		PWS NUMBER:		Date Lab Rec:	12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1352		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.43	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	1.10	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	1.10	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.21	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/27/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/23/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	114	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.74		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	1250	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	451	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	131	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	22.9	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	210	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry 1/9/2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
1352		*								
	12/16/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	0.10	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	519	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	159	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ved and Approved: Patricia A. Adler
icia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

WELL# 46094

MV694-31, MV1294-35

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 15, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV694-31
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/14/94
Time Sampled: 08:17:00
Date Lab Rec: 06/15/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
8183										
	07/06/94	SDW ALL INORGANICS								
	06/15/94	' Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/15/94	' Alkalinity, Total	114	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	06/24/94	' Chloride	342	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	06/23/94	' Fluoride	0.45	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/15/94	' pH	7.56		403	EPA 150.1	0.1	SU		
	06/20/94	' Hardness (CaCO3)	405	mg/l	900	EPA 130.2	10	mg/l	NA	
	06/20/94	' Nitrite-Nitrate Total N	0.45	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/15/94	' Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	' Nitrate as N (NO3-N)	0.45	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	' Sulfate (SO4)	131	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	06/15/94	' Total Dissolved Solids	1030	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/15/94	' Turbidity	53	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	' Calcium	116	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	' Magnesium	21.9	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	' Sodium	161	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	06/23/94	' Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/06/94	' Arsenic	0.014	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	06/27/94	' Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	06/23/94	' Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	06/21/94	' Chromium	0.025	mg/l	1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/24/94	' Copper	0.370	mg/l	1042/1040	EPA 220.1	0.010	mg/l	NA	
	06/27/94	' Iron	7.75	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	' Lead	0.041	mg/l	1051/1049	EPA 239.2	0.005	mg/l	NA	
	06/27/94	' Manganese	0.09	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/21/94	' Mercury	ND		71900/71950	EPA 245.1	0.0005	mg/l	NA	
	07/05/94	' Selenium	ND < 0.005	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A. Adler 7/2
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
3133	06/23/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
	06/27/94	* Zinc	0.39	mg/l	1092/1090	EPA 289.1	0.05	mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	06/17/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

eved and Approved: Patricia Adler
ica A. Adler, Manager
ce of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 3, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-35
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/06/94
Time Sampled: 12:55:00
Date Lab Rec: 12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: SILVER SPIKE RECOVERY WAS 82%.
EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRATE.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
1351		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.59	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	2.86	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	2.86	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.69	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	ND	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	0.014	mg/l	1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/27/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/23/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	115	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.71		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	966	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	400	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	112	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	23.0	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	145	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

eved and Approved: Patricia A. Adler
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry

1/9

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1351		*								
	12/16/94	* Copper	0.039	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	0.10	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	0.12	mg/l	1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	355	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	163	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ved and Approved: Patricia A. Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

2 of 2

WELL# 46096

MV694-53, MV1294-64, MV295-03

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

July 25, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:3

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: NV694-53
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/16/94
Time Sampled: 09:55:00
Date Lab Rec: 06/16/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

AE #	DATE ANALYSED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
3109		*								
	07/19/94	SDW ALL INORGANICS								
	06/16/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/16/94	* Alkalinity, Total	325	mg/L	410	EPA 310.1	2.0	mg/l	NA	
	06/27/94	* Chloride	155	mg/L	940	Std Meth 407C	1.0	mg/l	NA	
	07/06/94	* Fluoride	0.37	mg/L	951	EPA 340.2	0.20	mg/l	NA	
	06/16/94	* pH	7.47		403	EPA 150.1	0.1	SU		
	07/01/94	* Hardness (CaCO3)	628	mg/L	900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	289	mg/L	945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	1110	mg/L	515	EPA 160.1	10	mg/l	NA	
	06/16/94	* Turbidity	348	mg/L	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	171	mg/L	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	45.9	mg/L	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	158	mg/L	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	13.8	mg/L	1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/18/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/12/94	* Barium	0.43	mg/L	1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/12/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/12/94	* Chromium	0.012	mg/L	1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/21/94	* Copper	0.012	mg/L	1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/14/94	* Iron	18.5	mg/L	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	* Lead	0.013	mg/L	1051 1049	EPA 239.2	0.005	mg/l	NA	
	07/12/94	* Manganese	0.55	mg/L	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/29/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/15/94	* Selenium	ND <0.05	mg/L	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved:
Patricia A. Adler
Patricia A. Adler, Manager
Section of Environmental and Analytical Chemistry
1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
3389	06/24/94	* Silver	ND		1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	0.11	mg/L	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020			

ewed and Approved: Patricia Adler 2 of 2
ia A. Adler, Manager
n of Environmental and Analytical Chemistry

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 16 Jun 94
Date Received: 16 Jun 94
Date Analyzed: 21 Jun 94
Date Reported: 28 Jun 94
McKenzie I.D.: E94-4447
Units Reported: µg/L (ppb)
Project No.: 994600-01

EPA 602

Compound	MV694-53	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	98	

MRL = Minimum Reporting Limit
ND = None Detected

SJJ.

Scott J. Jordan, Organic Lab Manager

ADEQ4445.DOC sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 20, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-64
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/13/94
Time Sampled: 08:46:00
Date Lab Rec: 12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
370		*								
	12/29/94	SDW PRIMARY STANDARDS								
	12/30/94	* Fluoride	0.34	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/14/94	* Turbidity	340	NTU	82079	EPA 180.1	0.01	NTU		
	12/22/94	* Arsenic	0.018	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/29/94	* Barium	0.80	mg/l	1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/20/94	* Cadmium	0.0010	mg/l	1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/19/94	* Chromium	0.013	mg/l	1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/19/94	* Lead	0.017	mg/l	1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/23/94	* Selenium	ND < 0.25	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/19/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	01/12/95	SDW SECONDARY STANDARDS								
	12/14/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/14/94	* Alkalinity, Total	382	mg/l	410	EPA 310.1	2.0	mg/l		
	12/14/94	* pH	7.15		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	1510	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/27/94	* Hardness (CaCO3)	840	mg/l	900	EPA 130.2	10	mg/l		
	01/09/95	* Calcium	226	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	01/09/95	* Magnesium	65.0	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	01/09/95	* Sodium	190	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	01/12/95	* Aluminum	25.2	mg/l	1105/1106	EPA 202.1	0.50	mg/l		

ed and Approved: Patricia A. Adler 1/2
ia A. Adler, Manager
e of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1370		*								
	12/21/94	* Copper	Ø.415	mg/l	1042/1040	EPA 220.1/220.2	Ø.1Ø	mg/l		
	12/29/94	* Iron	35.2	mg/l	1045/1046	EPA 200.7/236.1	Ø.1Ø	mg/l		
	12/29/94	* Manganese	1.17	mg/l	1055/1056	EPA 200.7/243.1	Ø.Ø5	mg/l		
	12/29/94	* Zinc	Ø.12	mg/l	1092/1090	EPA 289.1	Ø.Ø5	mg/l		
	12/21/94	* Chloride	23Ø	mg/l	94Ø	Std Meth 407	1.Ø	mg/l		
	Ø1/Ø9/95	* Sulfate (SO4)	294	mg/l	945	EPA 375.2	1Ø.Ø	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/15/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ved and Approved: Patricia A. Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 13 Dec 94
Date Received: 14 Dec 94
Date Analyzed: 16 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11175
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-64	MRL
Benzene	85	10
Chlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	ND	10
m,p-Xylene	ND	20
o-Xylene	ND	10
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene (PID)	90	

MRL = Minimum Reporting Limit
ND = None Detected
Dilution = 20

Scott J. Jordan, Organic Lab Manager

ADE11167.DOC/cap

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

March 21, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 92001
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID:
PWS NUMBER:

Sample Name: MV295-03
Station:
Date Sampled: 02/07/95
Time Sampled: 14:30:00
Date Lab Rec: 02/08/95

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR FLUORIDE

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER METHOD REPORTING LMT		SOLIDS METHOD REFERENCE	SOLID METHOD REPORTING LMT
854		*								
	03/14/95	SDW PRIMARY STANDARDS								
	03/14/95	* Fluoride	0.27	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	02/13/95	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	02/08/95	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	02/13/95	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	02/08/95	* Turbidity	358	NTU	82079	EPA 180.1	0.01	NTU		
	02/16/95	* Arsenic	0.016	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	02/13/95	* Barium	0.30	mg/l	1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	02/14/95	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	02/10/95	* Chromium	0.017	mg/l	1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	02/10/95	* Lead	0.016	mg/l	1051/1049	EPA 239.2	0.005	mg/l	NA	
	02/10/95	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	02/15/95	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	02/15/95	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	02/13/95	SDW SECONDARY STANDARDS								
	02/08/95	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	02/08/95	* Alkalinity, Total	352	mg/l	410	EPA 310.1	2.0	mg/l		
	02/08/95	* pH	7.15		403	EPA 150.1	0.1	SU		
	02/14/95	* Total Dissolved Solids	1,370	mg/l	515	EPA 160.1	10	mg/l		
		*								
	02/10/95	* Hardness (CaCO3)	910	mg/l	900	EPA 130.2	10	mg/l		
	02/13/95	* Calcium	240	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	02/13/95	* Magnesium	71.4	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	02/13/95	* Sodium	183	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	02/14/95	* Aluminum	0.00	mg/l	1105/1106	EPA 202.1	0.50	mg/l		

ed and Approved: Patricia J Cullen
ia A. Adler, Manager
of Environmental and Analytical Chemistry

172

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER METHOD REPORTING LMT		SOLIDS METHOD REFERENCE	SOLID METHOD REPORTING LMT
1354		*								
	02/09/95	* Copper	0.017	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	02/13/95	* Iron	12.2	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	02/13/95	* Manganese	1.20	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	02/13/95	* Zinc	0.13	mg/l	1092/1090	EPA 289.1	0.05	mg/l		
	02/06/95	* Chloride	318	mg/l	940	Std Meth 407	1.0	mg/l		
	02/13/95	* Sulfate (SO4)	353	mg/l	945	EPA 375.2	10.0	mg/l		
	02/09/95	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	02/09/95	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

242

McKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Analyzed: 10 Feb 95, 13 Feb 95
Date Reported: 21 Feb 95
McKenzie I.D.: E95-0975
Units Reported: µg/L (ppb)

EPA 602

Compound	MV295-03	MRL
Benzene	6.3	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	5.3	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
Fluorobenzene*	104	

MRL = Minimum Reporting Limit
ND = None Detected

**Alternate surrogate used due to co-elution of primary surrogate.*

Scott J. Jordan, Organic Lab Manager

ADEQ0974.DOC:sl

WELL# 46281

MV694-09, MV1294-29, MV295-06

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4180
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-09

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.9	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	66	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.13	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	5.0	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	14 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	110	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	110	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	150	5.0	325.2	13 Jun 94
Fluoride	mg/L	1.0	0.10	340.2	21 Jun 94
Hardness	mg/L	180	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	1.33	0.100	353.2	20 Jun 94
Sulfate	mg/L	110	5.0	375.4	21 Jun 94
TDS	mg/L	560	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	813	1.0	120.1	09 Jun 94
Turbidity	NTU	0.93	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick, Inorganic Lab Manager

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 06 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11003

Client Identification: MV1294-29

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.4	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	0.08	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	95	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.06	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	12	0.20	200.7	16 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	100	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	110	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	220	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.66	0.10	340.2	16 Dec 94
Hardness	mg/L	190	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	6.05	0.10	353.2	29 Dec 94
Sulfate	mg/L	130	5.0	375.4	29 Dec 94
TDS	mg/L	620	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	1,132	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC sl

McKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Reported: 22 Feb 95
McKenzie I.D.: E95-0977

Client Identification: MV295-06

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	100	5.0	*SM-2320B	09 Feb 95
pH	SU	7.6	N/A	150.1	08 Feb 95
Calcium	mg/L	120	0.05	200.7	20 Feb 95
Chloride	mg/L	190	5.0	325.2	14 Feb 95
Fluoride	mg/L	0.58	0.10	340.2	16 Feb 95
Magnesium	mg/L	16	0.05	200.7	20 Feb 95
Hardness	mg/L	370	0.50	200.7	20 Feb 95
Nitrate/Nitrite as N	mg/L	5.30	0.10	353.2	17 Feb 95
Sodium	mg/L	96	1.0	200.7	20 Feb 95
Sulfate	mg/L	110	5.0	375.4	09 Feb 95
TDS	mg/L	710	5.0	160.1	13 Feb 95
Specific Conductance	µmhos/cm	1,126	1.0	120.1	09 Feb 95

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick, Inorganic Lab Manager

ADEQ0976.DOC sl

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Reported: 22 Feb 95
McKenzie I.D.: E95-0977

Client Identification: MV295-06

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	09 Feb 95
Barium	mg/L	0.13	0.05	200.7	20 Feb 95
Cadmium	mg/L	<0.0005	0.0005	213.2	15 Feb 95
Chromium	mg/L	<0.005	0.005	218.2	13 Feb 95
Copper	mg/L	<0.05	0.05	200.7	20 Feb 95
Iron	mg/L	0.07	0.05	200.7	20 Feb 95
Lead	mg/L	<0.005	0.005	239.2	09 Feb 95
Manganese	mg/L	<0.05	0.05	200.7	20 Feb 95
Mercury	mg/L	<0.0002	0.0002	245.1	20 Feb 95
Selenium	mg/L	<0.005	0.005	270.2	13 Feb 95
Silver	mg/L	<0.005	0.005	272.2	09 Feb 95
Zinc	mg/L	<0.05	0.05	200.7	20 Feb 95

MRL = Minimum Reporting Limit

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

ADEQ0976.DOC sl

WELL# 46282

MV694-08, MV894-04, MV1294-28

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4174
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV94-08

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.6	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	0.07	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	140	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	1.4	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	52	0.05	200.7	15 Jun 94
Manganese	mg/L	0.34	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	14 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	360	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	270	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	540	5.0	325.2	13 Jun 94
Fluoride	mg/L	0.48	0.10	340.2	21 Jun 94
Hardness	mg/L	560	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	0.519	0.100	353.2	20 Jun 94
Sulfate	mg/L	380	5.0	375.4	21 Jun 94
TDS	mg/L	1,800	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	2,340	1.0	120.1	09 Jun 94
Turbidity	NTU	21	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 31 Aug 94
Date Received: 01 Sep 94
Date Reported: 14 Sep 94
McKenzie ID: E94-7133
Corrected Report: 02 Dec 94

Client Identification: MV894-4

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	<0.010	0.010*	206.2	08 Sep 94
Barium	mg/L	0.07	0.05	200.7	08 Sep 94
Cadmium	mg/L	<0.0005	0.0005	213.2	12 Sep 94
Chromium	mg/L	<0.005	0.005	218.2	12 Sep 94
Lead	mg/L	<0.005	0.005	239.2	12 Sep 94
Mercury	mg/L	<0.0002	0.0002	245.1	06 Sep 94
Silver	mg/L	<0.005	0.005	272.2	08 Sep 94
Selenium	mg/L	<0.005	0.005	270.2	12 Sep 94
Non-Metals					
Fluoride	mg/L	0.46	0.10	340.2	07 Sep 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	06 Sep 94
Turbidity	mg/L	14	0.02	180.1	01 Sep 94

MRL = Minimum Reporting Limit

*Increased MRL due to matrix interference.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADEQ7130.DOC/sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 31 Aug 94
Date Received: 01 Sep 94
Date Reported: 11 Oct 94
McKenzie I.D.: E94-7133

Client Identification: MW894-4

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Calcium	mg/L	160	0.10	200.7	04 Oct 94
Copper	mg/L	<0.05	0.05	200.7	04 Oct 94
Iron	mg/L	1.5	0.05	200.7	04 Oct 94
Magnesium	mg/L	44	0.20	200.7	04 Oct 94
Manganese	mg/L	0.35	0.05	200.7	04 Oct 94
Sodium	mg/L	360	1.0	200.7	04 Oct 94
Zinc	mg/L	<0.05	0.05	200.7	04 Oct 94
Non-Metals					
Chloride	mg/L	460	5.0	325.2	26 Sep 94
Hardness	mg/L	580	1	200.7	04 Oct 94
Sulfate	mg/L	390	5.0	375.4	04 Oct 94

MRL = Minimum Reporting Limit

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE7133a.DOC sl

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 06 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11002

Client Identification: MV1294-28

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.3	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	0.005	0.005	206.2	19 Dec 94
Barium	mg/L	0.07	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	150	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	1.5	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	40	0.20	200.7	16 Dec 94
Manganese	mg/L	0.36	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	360	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	280	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	530	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.44	0.10	340.2	16 Dec 94
Hardness	mg/L	540	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	29 Dec 94
Sulfate	mg/L	320	5.0	375.4	29 Dec 94
TDS	mg/L	1,700	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	2,570	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC sl

WELL# 46292

MV694-56, MV1294-08

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

August 23, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV694-56
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/27/94
Time Sampled: 08:45:00
Date Lab Rec: 06/29/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR pH, TURBIDITY, AND TDS.
CORRECTED REPORT FOR DATE RECEIVED.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MI REPORTING LM
33477		*								
	07/18/94	SDW ALL INORGANICS								
	06/29/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/29/94	* Alkalinity, Total	192	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	07/11/94	* Chloride	171	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	07/05/94	* Fluoride	0.23	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/29/94	* pH	7.98		403	EPA 150.1	0.1	SU		
	07/05/94	* Hardness (CaCO3)	422	mg/l	900	EPA 130.2	10	mg/l	NA	
	07/18/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/29/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	07/18/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	07/06/94	* Sulfate (SO4)	217	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	07/05/94	* Total Dissolved Solids	909	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/29/94	* Turbidity	1.20	NTU	82079	EPA 180.1	0.01	NTU	NA	
	07/05/94	* Calcium	122	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	07/05/94	* Magnesium	29.1	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	07/05/94	* Sodium	107	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/18/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/12/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/05/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	07/11/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/14/94	* Iron	0.27	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	07/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/12/94	* Manganese	0.49	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	07/07/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/07/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia Adler, RP
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry
1/2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LI
18477	07/08/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	07/05/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/14/94	2,4-D	ND < 20 ug/l					
		*						
	07/11/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	07/01/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/11/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

Reviewed and Approved: Patricia Adler / RP
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry
2-9-2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 24, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 9945B0-01
GRANT/PH: N/A
SITE ID: MV1294-08
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 11/30/94
Time Sampled: 09:39:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY. DUE TO INSTRUMENTATION PROBLEMS, THE ANALYSIS OF 2,4-D EXCEEDED THE HOLDING TIME BY 3 DAYS. THE ANALYSIS OF ALL OTHER ANALYTES DID MEET THE HOLDING TIMES.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1387		*								
	12/12/94	SDW PRIMARY STANDARDS								
	12/06/94	* Fluoride	0.24	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	3.0	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	196	mg/l	410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	7.92		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	969	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/09/94	* Hardness (CaCO3)	488	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	138	mg/l	915/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	34.0	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	113	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1105	EPA 202.1	0.50	mg/l		

ewed and Approved: Patricia A. Adler
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry
1/9?

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1387		*								
	12/14/94	* Copper	ND		1042/1048	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	* Iron	0.41	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/06/94	* Manganese	0.51	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	184	mg/l	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	289	mg/l	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/17/95	2,4-D	ND < 20	ug/l						
		*See Comments								
	01/11/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/11/95	*Ft. Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/05/94	*Ft. Mohave pesticides	SW 846 Method 3510							
	12/05/94	*2,4-D	EPA Method 515.1							
	01/11/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

Reviewed and Approved: Patricia A. Adler

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

292

WELL# 46293

MV694-19, MV1294-47

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 09 Jun 94
Date Received: 09 Jun 94
Date Reported: 30 Jun 94
McKenzie I.D.: E94-4256
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-19

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.9	N/A	150.1	09 Jun 94
Metals					
Arsenic	mg/L	0.011	0.005	206.2	14 Jun 94
Barium	mg/L	0.09	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	130	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	0.39	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	36	0.05	200.7	15 Jun 94
Manganese	mg/L	0.58	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	120	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	210	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	320	5.0	325.2	23 Jun 94
Fluoride	mg/L	0.21	0.10	340.2	21 Jun 94
Hardness	mg/L	470	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	<0.100	0.100	353.2	20 Jun 94
Sulfate	mg/L	300	5.0	375.4	23 Jun 94
TDS	mg/L	930	5.0	160.1	14 Jun 94
Specific Conductance	µmhos/cm	1,313	1.0	120.1	21 Jun 94
Turbidity	NTU	0.63	0.02	180.1	10 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

ADE4253.DOC/sl

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 08 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11011

Client Identification: MV1294-47

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.4	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	0.017	0.005	206.2	19 Dec 94
Barium	mg/L	0.07	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	130	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.34	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	34	0.20	200.7	16 Dec 94
Manganese	mg/L	0.53	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	130	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	200	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	160	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.21	0.10	340.2	16 Dec 94
Hardness	mg/L	460	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	29 Dec 94
Sulfate	mg/L	320	5.0	375.4	29 Dec 94
TDS	mg/L	880	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	1,358	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC'sl

ATEL

Aqua Tech Environmental Laboratories Inc.

Client: MCKENZIE LABORATORIES
ATEL Sample No.: 94-16852-MEL
Date Sampled: 12/08/94
Date Received: 12/13/94
Date Extracted: 12/14/94
Date Analyzed: 01/03/95
Client ID: MV1294-47

Method: SW-846; 8270
Sample Type: WATER
Percent Solids:
Analyst: CAM
Project No.: MO 5506 ORG

Compound	Concentration - ug/l (ppb)
Chlorpyrifos	< 5.0
Malathion	< 5.0
Cypermethrin	< 5.0
Monocrotophos	< 50.0
Butifos	< 5.0
Ethyl Parathion	< 5.0
Methyl Parathion	< 5.0
Chlordimeform	< 5.0
Fluazifop-butyl	< 5.0
Azinphos-methyl	< 5.0
Methomyl	< 5.0
Permethrin	< 5.0
Trifluralin	< 5.0
Metribuzin	< 5.0
2,4-D	< 20.0

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

WELL# 46294

MV694-20, MV1294-49

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave
Phoenix, AZ 85012

Date Sampled: 09 June 94
Date Received: 09 June 94
Date Analyzed: 14 June 94
Date Reported: 20 June 94
McKenzie I.D.: E94-4248
Units Reported: µg/L (ppb)
Project No.: 994600-01

EPA 602

Compound	MV694 - 20	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5

Surrogate Recovery (%)
1-Chloro-2-fluorobenzene 88

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ4248.DOC/cap

McKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 08 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11013

Client Identification: MV1294-49

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.4	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	0.12	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	260	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.67	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	65	0.20	200.7	16 Dec 94
Manganese	mg/L	1.1	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	240	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	250	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	400	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.16	0.10	340.2	16 Dec 94
Hardness	mg/L	920	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	29 Dec 94
Sulfate	mg/L	520	5.0	375.4	29 Dec 94
TDS	mg/L	1,800	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	2,530	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 08 Dec 94
Date Received: 09 Dec 94
Date Analyzed: 14 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11013
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-49	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
Fluorobenzene (PID)*	88	

MRL = Minimum Reporting Limit
ND = None Detected

* *Alternate surrogate used due to co-elution of primary surrogate.*

Scott J. Jordan, Organic Lab Manager

ADE11005.DOC/esp

ATEL

Aqua Tech Environmental Laboratories Inc.

Client: MCKENZIE LABORATORIES
ATEL Sample No.: 94-16854-MEL
Date Sampled: 12/08/94
Date Received: 12/13/94
Date Extracted: 12/14/94
Date Analyzed: 01/03/95
Client ID: MV1294-49

Method: SW-846; 8270
Sample Type: WATER
Percent Solids:
Analyst: CAM
Project No.: MO 5506 ORG

Compound	Concentration - ug/l (ppb)
Chlorpyrifos	< 5.0
Malathion	< 5.0
Cypermethrin	< 5.0
Monocrotophos	< 50.0
Butifos	< 5.0
Ethyl Parathion	< 5.0
Methyl Parathion	< 5.0
Chlordimeform	< 5.0
Fluazifop-butyl	< 5.0
Azinphos-methyl	< 5.0
Methomyl	< 5.0
Permethrin	< 5.0
Trifluralin	< 5.0
Metribuzin	< 5.0
2,4-D	< 20.0

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

WELL# 46295

MV694-62, MV1294-50, MV1294-51

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

August 11, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	06/27/94
PHOENIX, AZ 85012		SITE ID:	MV694-62	Time Sampled:	07:47:00
		PWS NUMBER:		Date Lab Rec:	06/29/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR pH, TURBIDITY AND TDS.
CORRECTED REPORTED FOR DATE RECEIVED.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM.
8481										
	07/18/94	SDW ALL INORGANICS								
	06/29/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/29/94	* Alkalinity, Total	355	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	07/11/94	* Chloride	107	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	07/06/94	* Fluoride	0.28	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/29/94	* pH	8.22		403	EPA 150.1	0.1	SU		
	07/05/94	* Hardness (CaCO3)	549	mg/l	900	EPA 130.2	10	mg/l	NA	
	07/18/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/29/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	07/18/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	07/06/94	* Sulfate (SO4)	307	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	07/05/94	* Total Dissolved Solids	1090	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/29/94	* Turbidity	2.5	NTU	82079	EPA 180.1	0.01	NTU	NA	
	07/05/94	* Calcium	165	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	07/05/94	* Magnesium	47.0	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	07/05/94	* Sodium	125	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/12/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/05/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	07/11/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/14/94	* Iron	0.76	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	07/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/12/94	* Manganese	1.19	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	07/07/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/07/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia Adler, RP
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

172

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
18481	07/08/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	07/05/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/15/94	2,4-D	ND < 20 ug/l					
		*						
	07/12/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	07/01/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/12/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

Reviewed and Approved: Patricia Adler/RP
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry
2 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 31, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994606-01
GRANT/PH: N/A
SITE ID: MV1294-50
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/08/94
Time Sampled: 09:52:00
Date Lab Rec: 12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
939		*								
	12/28/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.35	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/13/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/13/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	4.1	NTU	82079	EPA 180.1	0.01	NTU		
	12/22/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/28/94	* Selenium	ND < 0.025	mg/l	1147/1145	EPA 270.2	0.025	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	242	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.93		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	853	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/15/94	* Hardness (CaCO3)	442	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	123	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	38.6	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	109	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

wed and Approved: Patricia A. Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1339		*								
	12/16/94	* Copper	ND		1042/1048	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	0.63	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	0.90	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1098	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	96.4	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	338	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/20/95	2,4-D	ND < 20	ug/l						
		*								
	01/19/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/19/95	*Fort Mohave pesticides	ND							
		* TARGET CMPDS./EST. POL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/12/94	*Fort Mohave pesticides	SW 846 Method 3510							
	12/19/94	*2,4-D	EPA Method 515.1							
	01/19/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

ewed and Approved: Patricia A. Adler 2-8-2
icia A. Adler, Manager
e of Environmental and Analytical Chemistry

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 08 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11014

Client Identification: MV1294-51

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.7	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	120	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.61	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	40	0.20	200.7	16 Dec 94
Manganese	mg/L	0.93	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	120	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	250	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	90	5.0	325.2	03 Jan 95
Fluoride	mg/L	0.25	0.10	340.2	16 Dec 94
Hardness	mg/L	460	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	29 Dec 94
Sulfate	mg/L	270	5.0	375.4	29 Dec 94
TDS	mg/L	910	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	1,268	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC/sl

ATEL

Aqua Tech Environmental Laboratories Inc.

Client: MCKENZIE LABORATORIES
ATEL Sample No.: 94-16855-MEL
Date Sampled: 12/08/94
Date Received: 12/13/94
Date Extracted: 12/14/94
Date Analyzed: 01/03/95
Client ID: MV1294-51

Method: SW-846; 8270
Sample Type: WATER
Percent Solids:
Analyst: CAM
Project No.: MO 5506 ORG

Compound	Concentration - ug/l (ppb)
Chlorpyrifos	< 5.0
Malathion	< 5.0
Cypermethrin	< 5.0
Monocrotophos	< 50.0
Butifos	< 5.0
Ethyl Parathion	< 5.0
Methyl Parathion	< 5.0
Chlordimeform	< 5.0
Fluazifop-butyl	< 5.0
Azinphos-methyl	< 5.0
Methomyl	< 5.0
Permethrin	< 5.0
Trifluralin	< 5.0
Metribuzin	< 5.0
2,4-D	< 20.0

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

WELL# 46296

MV694-65, MV694-66, MV1294-53

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 28 Jun 94
Date Received: 29 Jun 94
Date Reported: 19 Jul 94
McKenzie I.D.: E94-4879-4881
Amended Report

Client Identification: MV694-65

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.2	N/A	150.1	29 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	11 Jul 94
Barium	mg/L	0.06	0.05	200.7	11 Jul 94
Cadmium	mg/L	<0.0005	0.0005	213.2	14 Jul 94
Calcium	mg/L	250	0.05	200.7	11 Jul 94
Chromium	mg/L	0.008	0.005	218.2	14 Jul 94
Copper	mg/L	<0.05	0.05	200.7	11 Jul 94
Iron	mg/L	3.1	0.05	200.7	11 Jul 94
Lead	mg/L	<0.005	0.005	239.2	13 Jul 94
Magnesium	mg/L	96	0.05	200.7	11 Jul 94
Manganese	mg/L	0.90	0.05	200.7	11 Jul 94
Mercury	mg/L	<0.0002	0.0002	245.1	13 Jul 94
Selenium	mg/L	<0.005	0.005	270.2	12 Jul 94
Silver	mg/L	<0.005	0.005	272.2	15 Jul 94
Sodium	mg/L	610	1.0	200.7	11 Jul 94
Zinc	mg/L	<0.05	0.05	200.7	11 Jul 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	330	5.0	*SM 2320B	07 Jul 94
Chloride	mg/L	680	5.0	325.2	08 Jul 94
Fluoride	mg/L	0.47	0.10	340.2	05 Jul 94
Hardness	mg/L	1,000	0.50	200.7	11 Jul 94
Nitrate/Nitrite as N	mg/L	0.798	0.100	353.2	05 Jul 94
Sulfate	mg/L	940	5.0	375.4	05 Jul 94
TDS	mg/L	2,900	5.0	160.1	05 Jul 94
Turbidity	NTU	31	0.02	180.1	30 Jun 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADEQ4875.DOC/sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

August 24, 1994

PIERRE J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TITE	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled: 06/27/94
PHOENIX, AZ 85012		SITE ID:	MW694-66	Time Sampled: 09:34:00
		PWS NUMBER:		Date Lab Rec: 06/29/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR pH, TURBIDITY AND TDS.
CORRECTED REPORTED FOR DATE RECEIVED.

-- ANALYTICAL RESULTS --

SE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LM
8483		*								
	07/18/94	SDW ALL INORGANICS								
	06/29/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/29/94	* Alkalinity, Total	315	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	07/11/94	* Chloride	671	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	07/06/94	* Fluoride	0.60	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	06/29/94	* pH	7.79		403	EPA 150.1	0.1	SU		
	07/05/94	* Hardness (CaCO3)	1050	mg/l	900	EPA 130.2	10	mg/l	NA	
	07/18/94	* Nitrite-Nitrate Total N	0.58	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	06/29/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	07/18/94	* Nitrate as N (NO3-N)	0.58	mg/l	620	EPA 353.2	0.10	mg-N/l	N/A	
	07/06/94	* Sulfate (SO4)	879	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	07/05/94	* Total Dissolved Solids	3030	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/29/94	* Turbidity	21.5	NTU	82079	EPA 180.1	0.01	NTU	NA	
	07/05/94	* Calcium	284	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	07/05/94	* Magnesium	90.4	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	07/05/94	* Sodium	560	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/12/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/05/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	07/11/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/14/94	* Iron	2.67	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	07/05/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/12/94	* Manganese	0.83	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	07/07/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/07/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia Adler/RP
Lois A. Adler, Manager
Environmental and Technical Services

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AE #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
18433	07/08/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	07/05/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			
	07/15/94	2,4-D	ND < 20 ug/l					
		*						
	07/12/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	07/01/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/12/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						
		*						

Reviewed and Approved: Patricia Adler/RP
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

January 31, 1995 — BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	52000	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	12/08/94
PHOENIX, AZ 85012		SITE ID:	MV:1284-55	Time Sampled:	11:16:00
		PWS NUMBER:		Date Lab Rec:	12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
341		*								
	12/28/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.61	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/13/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/13/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	91	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 208.7/208.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/26/94	* Selenium	ND < 0.10	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/29/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	314	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.84		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	2670	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/15/94	* Hardness (CaCO3)	912	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	247	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	87.3	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	536	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1135/1136	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler 1/92

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AS #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
341		*								
	12/16/94	* Copper	0.010	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/29/94	* Iron	6.72	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	0.62	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	600	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	975	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/20/95	2,4-D	ND < 20	ug/l						
		*								
	01/19/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/19/95	*Fort Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/12/94	*Fort Mohave pesticides	SW 846 Method 3510							
	12/19/94	*2,4-D	EPA Method 515.1							
	01/19/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

Reviewed and Approved: Patricia Keller 2-9-95

Patricia A. Adler, Manager
Section of Environmental and Analytical Chemistry

WELL# 46297

MV694-63, MV1294-52

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

August 24, 1994

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	46141	Sample Name:
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled: 06/27/94
PHOENIX, AZ 85012		SITE ID:	MV694-63	Time Sampled: 08:38:00
		PWS NUMBER:		Date Lab Rec: 06/29/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR pH, TURBIDITY AND TDS.
CORRECTED REPORTED FOR DATE RECEIVED.

-- ANALYTICAL RESULTS --

LE #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
8482										
	07/18/94	SDW ALL INORGANICS								
	06/29/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/29/94	* Alkalinity, Total	282	mg/l	410	EPA 310.1	2.0	mg/l	NA	
	07/11/94	* Chloride	275	mg/l	940	Std Meth 407C	1.0	mg/l	NA	
	07/06/94	* Fluoride	ND		951	EPA 340.2	0.20	mg/l	NA	
	06/29/94	* pH	7.85		403	EPA 150.1	0.1	SU		
	07/05/94	* Hardness (CaCO3)	1050	mg/l	900	EPA 130.2	10	mg/l	NA	
	07/18/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/29/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	07/18/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	07/06/94	* Sulfate (SO4)	762	mg/l	945	EPA 375.2	10.0	mg/l	NA	
	07/05/94	* Total Dissolved Solids	2090	mg/l	515	EPA 160.1	10	mg/l	NA	
	06/29/94	* Turbidity	0.38	NTU	82079	EPA 180.1	0.01	NTU	NA	
	07/05/94	* Calcium	301	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	07/05/94	* Magnesium	76.1	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	07/05/94	* Sodium	222	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/08/94	* Arsenic	0.013	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/12/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/06/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/05/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	07/11/94	* Copper	0.020	mg/l	1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/12/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	07/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/12/94	* Manganese	0.13	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	07/07/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/07/94	* Selenium	ND <0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Patricia A. Adler RP
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

172

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LS #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
8482	07/08/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Y		EPA600/4-79-020			
	07/05/94	Total Recoverable Metals-AAS	Y		EPA600/4-79-020			
	07/15/94	2,4-D	ND < 20 ug/l					
		*						
	07/12/94	CUSTOM GCMS						
		*						
		* ANALYTICAL RESULTS:						
		*Fort Mohave pesticides	ND					
		* TARGET CMPDS./EST. PQL	See Cover Letter					
	07/01/94	* SAMPLE PREPARATION:	SW 846 Method 3510					
	07/12/94	*ANALYTICAL METHOD	SW 846 Method 8270					
		*Cover Letter Enclosed?	Yes					
		*PLEASE NOTE: This is a						
		*customized test, unique						
		*for each sample. Contact						
		*the lab for QA or methods						
		*information.						
		*						

:ved and Approved: Patricia Adler/KP
:cia A. Adler, Manager
:e of Environmental and Analytical Chemistry

242

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 31, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-52
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/08/94
Time Sampled: 10:35:00
Date Lab Rec: 12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1340		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	ND		951	EPA 340.2	0.20	mg/l		NA
	12/13/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l		NA
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l		NA
	12/13/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l		NA
	12/10/94	* Turbidity	1.44	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	0.017	mg/l	1002/1000	EPA 206.2	0.010	mg/l		NA
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l		NA
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l		NA
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l		NA
		*								
	12/15/94	* Lead	0.007	mg/l	1051/1049	EPA 239.2	0.005	mg/l		NA
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l		NA
	01/04/95	* Selenium	ND < 0.025	mg/l	1147/1145	EPA 270.2	0.005	mg/l		NA
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l		NA
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	301	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.55		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	2000	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/15/94	* Hardness (CaCO3)	1,020	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	309	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	81.2	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	226	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

wed and Approved:
icia A. Adler, Manager
e of Environmental and Analytical Chemistry

1/92

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
41340		*								
	12/16/94	* Copper	0.020	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	0.23	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	0.33	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	0.99	mg/l	1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	264	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	907	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/20/95	2,4-D	ND < 20	ug/l						
		*								
	01/19/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/19/95	*Fort Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/12/94	*Fort Mohave pesticides	SW 846 Method 3510							
	12/19/94	*2,4-D	EPA Method 515.1							
	01/19/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

Reviewed and Approved: Patricia A. Adler

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

2072

WELL# 46595

MV1294-65

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

February 6, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-65
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/13/94
Time Sampled: 10:13:00
Date Lab Rec: 12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
352		*								
	01/05/95	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	ND		951	EPA 340.2	0.20	mg/l	NA	
	01/05/95	* Nitrite-Nitrate Total N	ND<0.50	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	01/05/95	* Nitrate as N (NO3-N)	ND<0.50	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/14/94	* Turbidity	21	NTU	82079	EPA 180.1	0.01	NTU		
	12/22/94	* Arsenic	0.028	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/29/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/20/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/19/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/19/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/28/94	* Selenium	ND < 0.010	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	
	01/05/95	* Silver	ND < 0.002	mg/l	1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	01/09/95	SDW SECONDARY STANDARDS								
	12/14/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/14/94	* Alkalinity, Total	174	mg/l	410	EPA 310.1	2.0	mg/l		
	12/14/94	* pH	7.71		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	3640	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	1730	mg/l	900	EPA 130.2	10	mg/l		
	01/09/95	* Calcium	432	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	01/09/95	* Magnesium	125	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	01/09/95	* Sodium	689	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/30/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved:
Cecilia A. Adler, Manager
Office of Environmental and Analytical Chemistry

192

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1382		*								
	12/21/94	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/29/94	* Iron	1.91	mg/l	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/29/94	* Manganese	1.47	mg/l	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/29/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/21/94	* Chloride	1570	mg/l	940	Std Meth 407	1.0	mg/l		
	01/09/95	* Sulfate (SO4)	752	mg/l	945	EPA 375.2	10.0	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/15/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				
	01/23/95	2,4-D	ND < 20	ug/l						
		*								
	01/26/95	CUSTOM GCMS								
		*								
		* ANALYTICAL RESULTS:								
	01/26/95	*Fort Mohave pesticides	ND							
		* TARGET CMPDS./EST. PQL	See Cover Letter							
		* SAMPLE PREPARATION:								
	12/19/94	*2,4-D	EPA Method 515.1							
	12/21/94	*Fort Mohave pesticides	SW 846 Method 3510							
	01/26/95	*ANALYTICAL METHOD	SW 846 Method 8270							
		*Cover Letter Enclosed?	Yes							
		*PLEASE NOTE: This is a								
		*customized test, unique								
		*for each sample. Contact								
		*the lab for QA or methods								
		*information.								
		*								

Reviewed and Approved: Patricia A. Adler 2/2

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

WELL# 46596

MV1294-59, MV295-04, MV295-05

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 12 Dec 94
Date Received: 14 Dec 94
Date Reported: 11 Jan 95
McKenzie I.D.: E94-11168

Client Identification: MV1294-59

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	120	5.0	*SM-2320B	20 Dec 94
pH	SU	7.5	N/A	150.1	14 Dec 94
Calcium	mg/L	59	0.05	200.7	16 Dec 94
Chloride	mg/L	210	5.0	325.2	03 Jan 95
Fluoride	mg/L	3.8	0.10	340.2	21 Dec 94
Magnesium	mg/L	8.8	0.05	200.7	16 Dec 94
Hardness	mg/L	180	0.50	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	3.56	0.10	353.2	29 Dec 94
Sodium	mg/L	190	1.0	200.7	16 Dec 94
Sulfate	mg/L	190	5.0	375.4	29 Dec 94
TDS	mg/L	790	5.0	160.1	15 Dec 94
Specific Conductance	µmhos/cm	1,253	1.0	120.1	16 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11167.DOC:m

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 12 Dec 94
Date Received: 14 Dec 94
Date Reported: 11 Jan 95
McKenzie I.D.: E94-11168

Client Identification: MV1294-59

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	0.168	0.005	206.2	29 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	02 Jan 95
Chromium	mg/L	<0.011	0.005	218.2	03 Jan 95
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	0.07	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	0.0004	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	30 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94

MRL = Minimum Reporting Limit

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11167.DOC:m

McKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Reported: 22 Feb 95
McKenzie I.D.: E95-0976

Client Identification: MV295-04

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	120	5.0	*SM-2320B	09 Feb 95
pH	SU	7.5	N/A	150.1	08 Feb 95
Calcium	mg/L	64	0.05	200.7	20 Feb 95
Chloride	mg/L	210	5.0	325.2	13 Feb 95
Fluoride	mg/L	3.6	0.10	340.2	10 Feb 95
Magnesium	mg/L	8.7	0.05	200.7	20 Feb 95
Hardness	mg/L	200	0.50	200.7	20 Feb 95
Nitrate/Nitrite as N	mg/L	2.38	0.10	353.2	17 Feb 95
Sodium	mg/L	190	1.0	200.7	20 Feb 95
Sulfate	mg/L	130	5.0	375.4	09 Feb 95
TDS	mg/L	760	5.0	160.1	13 Feb 95
Specific Conductance	µmhos/cm	1,256	1.0	120.1	09 Feb 95

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADEQ0976.DOC sl

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Reported: 22 Feb 95
McKenzie I.D.: E95-0976

Client Identification: MV295-04

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	0.12	0.005	206.2	09 Feb 95
Barium	mg/L	<0.05	0.05	200.7	20 Feb 95
Cadmium	mg/L	<0.0005	0.0005	213.2	15 Feb 95
Chromium	mg/L	0.009	0.005	218.2	13 Feb 95
Copper	mg/L	<0.05	0.05	200.7	20 Feb 95
Iron	mg/L	<0.05	0.05	200.7	20 Feb 95
Lead	mg/L	<0.005	0.005	239.2	09 Feb 95
Manganese	mg/L	<0.05	0.05	200.7	20 Feb 95
Mercury	mg/L	<0.0002	0.0002	245.1	20 Feb 95
Selenium	mg/L	<0.005	0.005	270.2	13 Feb 95
Silver	mg/L	<0.005	0.005	272.2	09 Feb 95
Zinc	mg/L	<0.05	0.05	200.7	20 Feb 95

MRL = Minimum Reporting Limit

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADEQ0976.DOC:sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, PH.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

March 21, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 92001
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID:
PWS NUMBER:

Sample Name: MV295-05
Station:
Date Sampled: 02/07/95
Time Sampled: 09:06:00
Date Lab Rec: 02/08/95

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR FLUORIDE

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER METHOD REPORTING LMT		SOLIDS METHOD REFERENCE	SOLID METHOD REPORTING LMT
1855		*								
	03/14/95	SDW PRIMARY STANDARDS								
	03/14/95	* Fluoride	3.85	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	02/13/95	* Nitrite-Nitrate Total N	1.98	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	02/08/95	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	02/13/95	* Nitrate as N (NO3-N)	1.98	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	02/08/95	* Turbidity	0.06	NTU	82079	EPA 180.1	0.01	NTU		
	02/16/95	* Arsenic	0.133	mg/l	1002/1000	EPA 206.2	0.010	mg/l	NA	
	02/13/95	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	02/15/95	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	02/10/95	* Chromium	0.016	mg/l	1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	02/10/95	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	02/10/95	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	02/15/95	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	02/15/95	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	02/14/95	SDW SECONDARY STANDARDS								
	02/08/95	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	02/08/95	* Alkalinity, Total	119	mg/l	410	EPA 310.1	2.0	mg/l		
	02/08/95	* pH	7.72		403	EPA 150.1	0.1	SU		
	02/14/95	* Total Dissolved Solids	769	mg/l	515	EPA 160.1	10	mg/l		
		*								
	02/10/95	* Hardness (CaCO3)	188	mg/l	900	EPA 130.2	10	mg/l		
	02/13/95	* Calcium	60.6	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	02/13/95	* Magnesium	8.7	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	02/13/95	* Sodium	167	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	02/14/95	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler 3/22

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

S #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER METHOD REPORTING LMT		SOLIDS METHOD REFERENCE	SOLID METHOD REPORTING LMT
355		*								
	02/09/95	* Copper	ND		1042/1040	EPA 220.1/220.2	0.10	mg/l		
	02/13/95	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	02/13/95	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	02/13/95	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	02/08/95	* Chloride	213	mg/l	940	Std Meth 407	1.0	mg/l		
	02/13/95	* Sulfate (SO4)	159	mg/l	945	EPA 375.2	10.0	mg/l		
	02/09/95	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	02/09/95	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ed and Approved: Patricia L. Collen
e A. Adler, Manager
of Environmental and Analytical Chemistry

292

WELL# 46597

MV1294-58, MV295-08

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 12 Dec 94
Date Received: 14 Dec 94
Date Reported: 11 Jan 95
McKenzie I.D.: E94-11167

Client Identification: MV1294-58

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	120	5.0	*SM-2320B	20 Dec 94
pH	SU	7.5	N/A	150.1	14 Dec 94
Calcium	mg/L	77	0.05	200.7	16 Dec 94
Chloride	mg/L	300	5.0	325.2	03 Jan 95
Fluoride	mg/L	2.2	0.10	340.2	21 Dec 94
Magnesium	mg/L	11	0.05	200.7	16 Dec 94
Hardness	mg/L	240	0.50	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	0.942	0.10	353.2	29 Dec 94
Sodium	mg/L	220	1.0	200.7	16 Dec 94
Sulfate	mg/L	200	5.0	375.4	29 Dec 94
TDS	mg/L	910	5.0	160.1	15 Dec 94
Specific Conductance	µmhos/cm	1,512	1.0	120.1	16 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11167.DOC:m

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 12 Dec 94
Date Received: 14 Dec 94
Date Reported: 11 Jan 95
McKenzie I.D.: E94-11167

Client Identification: MV1294-58

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	0.098	0.005	206.2	29 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	02 Jan 95
Chromium	mg/L	<0.005	0.005	218.2	03 Jan 95
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	<0.05	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	0.0006	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	30 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94

MRL = Minimum Reporting Limit

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADEM167.DOC rn

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Reported: 22 Feb 95
McKenzie I.D.: E95-0979

Client Identification: MV295-08

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	120	5.0	*SM-2320B	09 Feb 95
pH	SU	7.5	N/A	150.1	08 Feb 95
Calcium	mg/L	81	0.05	200.7	20 Feb 95
Chloride	mg/L	290	5.0	325.2	13 Feb 95
Fluoride	mg/L	2.3	0.10	340.2	10 Feb 95
Magnesium	mg/L	11	0.05	200.7	20 Feb 95
Hardness	mg/L	250	0.50	200.7	20 Feb 95
Nitrate/Nitrite as N	mg/L	0.914	0.10	353.2	17 Feb 95
Sodium	mg/L	210	1.0	200.7	20 Feb 95
Sulfate	mg/L	140	5.0	375.4	09 Feb 95
TDS	mg/L	900	5.0	160.1	13 Feb 95
Specific Conductance	µmhos/cm	1,474	1.0	120.1	09 Feb 95

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADEQ0976.DOC:sl

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Reported: 22 Feb 95
McKenzie I.D.: E95-0979

Client Identification: MV295-08

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	0.094	0.005	206.2	09 Feb 95
Barium	mg/L	<0.05	0.05	200.7	20 Feb 95
Cadmium	mg/L	<0.0005	0.0005	213.2	15 Feb 95
Chromium	mg/L	<0.005	0.005	218.2	13 Feb 95
Copper	mg/L	<0.05	0.05	200.7	20 Feb 95
Iron	mg/L	<0.05	0.05	200.7	20 Feb 95
Lead	mg/L	<0.005	0.005	239.2	09 Feb 95
Manganese	mg/L	<0.05	0.05	200.7	20 Feb 95
Mercury	mg/L	0.0003	0.0002	245.1	20 Feb 95
Selenium	mg/L	<0.005	0.005	270.2	13 Feb 95
Silver	mg/L	<0.005	0.005	272.2	09 Feb 95
Zinc	mg/L	<0.05	0.05	200.7	20 Feb 95

MRL = Minimum Reporting Limit

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADEQ0976.DOC :sl

SURFACE SAMPLES
BULLHEAD CITY - LAUGHLIN BRIDGE

MV694-18, MV1294-44

MCKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 08 Jun 94
Date Received: 09 Jun 94
Date Reported: 30 Jun 94
McKenzie I.D.: E94-4255
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-18

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	8.2	N/A	150.1	09 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	0.14	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	77	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	<0.05	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	33	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	110	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	140	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	89	5.0	325.2	23 Jun 94
Fluoride	mg/L	0.31	0.10	340.2	21 Jun 94
Hardness	mg/L	330	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	0.304	0.100	353.2	20 Jun 94
Sulfate	mg/L	320	5.0	375.4	23 Jun 94
TDS	mg/L	720	5.0	160.1	14 Jun 94
Specific Conductance	µmhos/cm	1,079	1.0	120.1	21 Jun 94
Turbidity	NTU	0.70	0.02	180.1	10 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick, Inorganic Lab Manager

ADE4253.DOC:sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

December, 8, 1994

PATTI TUYE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 9946GG-01
GRANT/PH: N/A
SITE ID: MV1294-44
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/07/94
Time Sampled: 12:30:00
Date Lab Rec: 12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: SILVER SPIKE RECOVERY WAS 85%.
EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND TDS.
CORRECTED REPORT FOR TOTAL DISSOLVED SOLIDS.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
357										
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.37	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	0.23	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	0.23	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.42	NTU	82079	EPA 180.1	0.01	NTU		
	12/22/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	0.14	mg/l	1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71900	EPA 245.1	0.0005	mg/l	NA	
	12/27/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/23/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	128	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	8.30		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	741	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	328	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	85.3	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	33.1	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	106	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved:
Doris A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
357		*								
	12/16/94	* Copper	0.017	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1055	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	95.0	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	308	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ved and Approved: _____
icia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

SURFACE SAMPLES
NEEDLES BRIDGE

MV694-17, MV1294-43

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 08 Jun 94
Date Received: 09 Jun 94
Date Reported: 30 Jun 94
McKenzie I.D.: E94-4254
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-17

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	8.2	N/A	150.1	09 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	0.15	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	78	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	<0.05	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	34	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	110	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	130	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	94	5.0	325.2	23 Jun 94
Fluoride	mg/L	0.29	0.10	340.2	21 Jun 94
Hardness	mg/L	330	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	0.519	0.100	353.2	20 Jun 94
Sulfate	mg/L	310	5.0	375.4	23 Jun 94
TDS	mg/L	680	5.0	160.1	14 Jun 94
Specific Conductance	µmhos/cm	1,018	1.0	120.1	21 Jun 94
Turbidity	NTU	0.84	0.02	180.1	10 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Gradwick
Maja Gradwick, Inorganic Lab Manager

ADE4253.DOC sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

February 14, 1995 BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-43
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/07/94
Time Sampled: 10:15:00
Date Lab Rec: 12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND TDS.
CORRECTED REPORT FOR TOTAL DISSOLVED SOLIDS.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
355		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	0.35	mg/l	951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	0.25	mg/l	630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	0.25	mg/l	620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.20	NTU	62079	EPA 180.1	0.01	NTU		
	12/22/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	0.14	mg/l	1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/27/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/23/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	129	mg/l	410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	8.24		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	707	mg/l	515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	328	mg/l	900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	94.7	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	32.7	mg/l	927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	105	mg/l	929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ewed and Approved: Patricia A. Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry 1/92

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1855		*								
	12/16/94	* Copper	0.016	mg/l	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND		1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	95.2	mg/l	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	310	mg/l	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes			EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes			EPA600/4-79-020				

ewed and Approved:
cle A. Adler, Manager
ce of Environmental and Analytical Chemistry

2y2

TRIP BLANK

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Analyzed: 10 Jun 94
Date Reported: 22 Jun 94
McKenzie I.D.: E94-4171
Units Reported: µg/L (ppb)
Project No.: 994600-01
Project Name: MOHAVE VALLEY

EPA 602

Compound	Trip Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	94	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ4165.DOC/sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 10 Jun 94
Date Reported: 22 Jun 94
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)
Project No.: 994600-01
Project Name: MOHAVE VALLEY

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	106	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ4165.DOC/sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Analyzed: 10 Jun 94
Date Reported: 22 Jun 94
McKenzie I.D.: E94-4170
Units Reported: µg/L (ppb)
Project No.: 994600-01
Project Name: MOHAVE VALLEY

EPA 602

Quality Control Data

Client I.D.: MV694-11

Compound	Sample Result	Conc. Spiked	Spiked Sample	% Rec.	Dup. Spiked Sample	Dup. % Rec.	RPD
Benzene	ND	10.0	9.7	97	9.6	96	1
Ethylbenzene	ND	10.0	10.9	109	10.7	107	2
Toluene	ND	10.0	9.2	92	9.1	91	1

$$\% \text{ Recovery} = \frac{\text{Spiked Sample Result - Sample Result}}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{\text{Spiked Sample Result - Duplicate Spiked Sample Result}}{\text{Average of Spiked Samples}} \times 100$$

SJJ.

Scott J. Jordan, Organic Lab Manager

ADEQ4165.DOC/sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave
Phoenix, AZ 85012

Date Sampled:	09 June 94
Date Received:	09 June 94
Date Analyzed:	14 June 94
Date Reported:	20 June 94
McKenzie I.D.:	E94-4252
Units Reported:	µg/L (ppb)
Project No.:	994600-01

EPA 602

Compound	Trip Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	87	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ4248.DOC/cap

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 14 June 94
Date Reported: 20 June 94
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)
Project No.: 994600-01

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5

Surrogate Recovery (%)
1-Chloro-2-fluorobenzene 91

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 13 June 94
Date Reported: 20 June 94
McKenzie I.D.: E94-4222
Units Reported: µg/L (ppb)
Project No.: 994600-01

EPA 602

Quality Control Data

Client I.D.: N/A

Compound	Sample Result	Conc. Spiked	Spiked Sample	% Rec.	Dup. Spiked Sample	Dup. % Rec.	RPD
Benzene	ND	10.0	9.1	91	9.5	95	4
Ethylbenzene	ND	10.0	10.0	100	10.4	104	4
Toluene	ND	10.0	8.8	88	9.3	93	6

$$\% \text{ Recovery} = \frac{\text{Spiked Sample Result - Sample Result}}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{\text{Spiked Sample Result - Duplicate Spiked Sample Result}}{\text{Average of Spiked Samples}} \times 100$$

Scott J. Jordan, Organic Lab Manager

ADEQ4248.DOC/cap

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 16 Jun 94
Date Received: 16 Jun 94
Date Analyzed: 21 Jun 94
Date Reported: 28 Jun 94
McKenzie I.D.: E94-4448
Units Reported: µg/L (ppb)
Project No.: 994600-01

EPA 602

Compound	Trip Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	90.	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ4448.DOC sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 21 Jun 94
Date Reported: 28 Jun 94
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)
Project No.: 994600-01

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	97	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ4445.DOC sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 21 Jun 94
Date Reported: 28 Jun 94
McKenzie I.D.: E94-4489
Units Reported: µg/L (ppb)
Project No.: 994600-01

EPA 602

Quality Control Data

Client I.D.: N/A

Compound	Sample Result	Conc. Spiked	Spiked Sample	% Rec.	Dup. Spiked Sample	Dup. % Rec.	RPD
Benzene	ND	10.0	9.2	92	9.2	92	0
Ethylbenzene	ND	10.0	11.8	118	11.8	118	0
Toluene	ND	10.0	9.4	94	9.3	93	1

$$\% \text{ Recovery} = \frac{\text{Spiked Sample Result - Sample Result}}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{\text{Spiked Sample Result - Duplicate Spiked Sample Result}}{\text{Average of Spiked Samples}} \times 100$$

Scott J. Jordan, Organic Lab Manager

ADEQ4445.DOC sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 06 Dec 94
Date Received: 09 Dec 94
Date Analyzed: 14 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11006
Units Reported: µg/L (ppb)

EPA 602

Compound	Trip Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
Fluorobenzene (PID)*	84	

MRL = Minimum Reporting Limit
ND = None Detected

* *Alternate surrogate used due to co-elution of primary surrogate.*

Scott J. Jordan, Organic Lab Manager

ADE11005.DOC/cap

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 07 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	102	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE10800.DOC sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 08 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: E94-10759
Units Reported: µg/L (ppb)

EPA 602

Quality Control Data

Client I.D.: N/A

Compound	Sample Result	Conc. Spiked	Spiked Sample	% Rec.	Dup. Spiked Sample	Dup. % Rec.	RPD
Benzene	14.4	10.0	23.4	90	24.7	103	5
Ethylbenzene	1.2	10.0	11.8	106	12.0	108	2
Toluene	2.7	10.0	11.7	90	12.6	99	7

$$\% \text{ Recovery} = \frac{\text{Spiked Sample Result - Sample Result}}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{\text{Spiked Sample Result - Duplicate Spiked Sample Result}}{\text{Average of Spiked Samples}} \times 100$$

Scott J. Jordan, Organic Lab Manager

ADE10800.DOC sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Analyzed: 08 Dec 94, 09 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: E94-10806
Units Reported: µg/L (ppb)

EPA 602

Compound	Trip Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	102	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE10800.DOC sj

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 08 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	101	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ0800.DOC sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 09 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	101	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADL1080.DOC sl

MCKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 09 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	97	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE10800.DOC sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 12 Dec 94
Date Received: 14 Dec 94
Date Analyzed: 16 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11170
Units Reported: µg/L (ppb)

EPA 602

Compound	Trip Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene (PID)	96	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE11167.DOC'cap

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 14 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
Fluorobenzene (PID)*	87	

MRL = Minimum Reporting Limit
ND = None Detected

* *Alternate surrogate used due to co-elution of primary surrogate.*

Scott J. Jordan, Organic Lab Manager

ADE11005.DOC cap

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 15 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene (PID)	97	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE11167.DOC:cap

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 16 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene (PID)	96	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE11167.DOC cap

MCKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 14 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-10954
Units Reported: µg/L (ppb)

EPA 602

Quality Control Data

Client I.D.: N/A

Compound	Sample Result	Conc. Spiked	Spiked Sample	% Rec.	Dup. Spiked Sample	Dup. % Rec.	RPD
Benzene	ND	10.0	9.5	95	10.0	100	5
Ethylbenzene/1CL2FBZ	ND	30.0	29.9	100	30.2	101	1
Toluene	ND	10.0	9.4	94	9.9	99	5

$$\% \text{ Recovery} = \frac{\text{Spiked Sample Result - Sample Result}}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{\text{Spiked Sample Result - Duplicate Spiked Sample Result}}{\text{Average of Spiked Samples}} \times 100$$

Scott J. Jordan, Organic Lab Manager

ADE11005.DOC/cap

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 14 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-10962
Units Reported: µg/L (ppb)

EPA 602

Quality Control Data

Client I.D.: N/A

Compound	Sample Result	Conc. Spiked	Spiked Sample	% Rec.	Dup. Spiked Sample	Dup. % Rec.	RPD
Benzene	ND	10.0	10.2	102	10.0	100	2
Ethylbenzene/1CL2FBZ	ND	30.0	30.3	101	30.4	101	<1
Toluene	ND	10.0	9.8	98	9.6	96	2

$$\% \text{ Recovery} = \frac{\text{Spiked Sample Result - Sample Result}}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{\text{Spiked Sample Result - Duplicate Spiked Sample Result}}{\text{Average of Spiked Samples}} \times 100$$

Scott J. Jordan, Organic Lab Manager

ADE11005.DOC/cap

McKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 12 Dec 94
Date Received: 14 Dec 94
Date Analyzed: 15 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11171
Units Reported: µg/L (ppb)

EPA 602

Quality Control Data

Client I.D.: MV1294-61

Compound	Sample Result	Conc. Spiked	Spiked Sample	% Rec.	Dup. Spiked Sample	Dup. % Rec.	RPD
Benzene	ND	10.0	10.6	106	10.9	109	3
Ethylbenzene	ND	10.0	9.2	92	10.4	104	12
Toluene	ND	10.0	8.5	85	9.6	96	12

$$\% \text{ Recovery} = \frac{\text{Spiked Sample Result - Sample Result}}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{\text{Spiked Sample Result - Duplicate Spiked Sample Result}}{\text{Average of Spiked Samples}} \times 100$$

Scott J. Jordan, Organic Lab Manager

ADE11167.DOC:cap

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 16 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11164
Units Reported: µg/L (ppb)

EPA 602

Quality Control Data

Client I.D.: N/A

Compound	Sample Result	Conc. Spiked	Spiked Sample	% Rec.	Dup. Spiked Sample	Dup. % Rec.	RPD
Benzene	ND	10.0	9.9	99	10.1	101	2
Ethylbenzene	ND	10.0	10.0	100	10.3	103	3
Toluene	ND	10.0	9.4	94	9.6	96	2

$$\% \text{ Recovery} = \frac{\text{Spiked Sample Result - Sample Result}}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{\text{Spiked Sample Result - Duplicate Spiked Sample Result}}{\text{Average of Spiked Samples}} \times 100$$

Scott J. Jordan, Organic Lab Manager

ADE11167.DOC:cap

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Analyzed: 10 Feb 95, 13 Feb 95
Date Reported: 21 Feb 95
McKenzie I.D.: E95-0980
Units Reported: µg/L (ppb)

EPA 602

Compound	Trip Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
Fluorobenzene*	100	

MRL = Minimum Reporting Limit
ND = None Detected

**Alternate surrogate used due to co-elution of primary surrogate.*

SJJ.

Scott J. Jordan, Organic Lab Manager

ADEQ0974.DOC/sl

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 09 Feb 95
Date Reported: 21 Feb 95
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	104	

MRL = Minimum Reporting Limit
ND = None Detected

SJJ.

Scott J. Jordan, Organic Lab Manager

ADEQ0974.DOC sj

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 14 Feb 95
Date Reported: 21 Feb 95
McKenzie I.D.: N/A
Units Reported: µg/L (ppb)

EPA 602

Compound	Method Blank	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
Fluorobenzene*	100	

MRL = Minimum Reporting Limit
ND = None Detected

**Alternate surrogate used due to co-elution of primary surrogate.*

Scott J. Jordan, Organic Lab Manager

ADEQ0974.DOC:sl

McKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Feb 95
Date Received: 08 Feb 95
Date Analyzed: 10 Feb 95
Date Reported: 21 Feb 95
McKenzie I.D.: E95-0974
Units Reported: µg/L (ppb)

EPA 602

Quality Control Data

Client I.D.: MV295-02

Compound	Sample Result	Conc. Spiked	Spiked Sample	% Rec.	Dup. Spiked Sample	Dup. % Rec.	RPD
Benzene	ND	10.0	9.5	95	9.8	98	3
Ethylbenzene	ND	10.0	9.2	92	9.3	93	1
Toluene	ND	10.0	9.2	92	9.3	93	1

$$\% \text{ Recovery} = \frac{\text{Spiked Sample Result - Sample Result}}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{\text{Spiked Sample Result - Duplicate Spiked Sample Result}}{\text{Average of Spiked Samples}} \times 100$$

SJJ.

Scott J. Jordan, Organic Lab Manager

ADEQ0974.DOC:sl

EQUIPMENT BLANKS

MV694-03, MV694-07, MV694-23, MV694-26, MV694-41
MV694-50, MV694-52, MV694-60, MV694-64, MV894-02
MV1294-03, MV1294-14, MV1294-18, MV1294-26, MV1294-39
MV1294-42, MV1294-54, MV1294-62, MV1294-63, MV295-02

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 06 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4178
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-03

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.5	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	<0.05	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	<0.05	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	<0.05	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	<1.0	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	6.0	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	<5.0	5.0	325.2	13 Jun 94
Fluoride	mg/L	<0.10	0.10	340.2	21 Jun 94
Hardness	mg/L	<0.50	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	<0.100	0.100	353.2	20 Jun 94
Sulfate	mg/L	<5.0	5.0	375.4	21 Jun 94
TDS	mg/L	<5.0	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	1.0	1.0	120.1	09 Jun 94
Turbidity	NTU	0.02	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

ADEQ417L.DOC/sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 07 Jun 94
Date Received: 08 Jun 94
Date Reported: 15 Jul 94
McKenzie I.D.: E94-4172
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: M694-07

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	8.3	N/A	150.1	08 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	14 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	<0.05	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	<0.05	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	<0.05	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	14 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	<1.0	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	5.0	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	<5.0	5.0	325.2	13 Jun 94
Fluoride	mg/L	<0.10	0.10	340.2	21 Jun 94
Hardness	mg/L	<0.50	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	0.367	0.100	353.2	20 Jun 94
Sulfate	mg/L	<5.0	5.0	375.4	21 Jun 94
TDS	mg/L	<5.0	5.0	160.1	09 Jun 94
Specific Conductance	µmhos/cm	1.4	1.0	120.1	09 Jun 94
Turbidity	NTU	0.20	0.02	180.1	08 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

ADEQ4172.DOC/sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 09 Jun 94
Date Received: 09 Jun 94
Date Reported: 30 Jun 94
McKenzie I.D.: E94-4260
Project No.: 994600-01
Amended Report
CORRECTED COPY

Client Identification: MV694-23

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.1	N/A	150.1	09 Jun 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	15 Jun 94
Barium	mg/L	<0.05	0.05	200.7	15 Jun 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Jun 94
Calcium	mg/L	<0.05	0.05	200.7	15 Jun 94
Chromium	mg/L	<0.005	0.005	218.2	17 Jun 94
Copper	mg/L	<0.05	0.05	200.7	15 Jun 94
Iron	mg/L	<0.05	0.05	200.7	15 Jun 94
Lead	mg/L	<0.005	0.005	239.2	16 Jun 94
Magnesium	mg/L	<0.05	0.05	200.7	15 Jun 94
Manganese	mg/L	<0.05	0.05	200.7	15 Jun 94
Mercury	mg/L	<0.0002	0.0002	245.1	16 Jun 94
Selenium	mg/L	<0.005	0.005	270.2	15 Jun 94
Silver	mg/L	<0.005	0.005	272.2	10 Jun 94
Sodium	mg/L	<1.0	1.0	200.7	15 Jun 94
Zinc	mg/L	<0.05	0.05	200.7	15 Jun 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	5.0	5.0	*SM 2320B	17 Jun 94
Chloride	mg/L	19	5.0	325.2	23 Jun 94
Fluoride	mg/L	<0.10	0.10	340.2	21 Jun 94
Hardness	mg/L	<0.50	0.50	200.7	15 Jun 94
Nitrate/Nitrite as N	mg/L	<0.100	0.100	353.2	20 Jun 94
Sulfate	mg/L	<5.0	5.0	375.4	23 Jun 94
TDS	mg/L	<5.0	5.0	160.1	14 Jun 94
Specific Conductance	µmhos/cm	2.3	1.0	120.1	21 Jun 94
Turbidity	NTU	0.45	0.02	180.1	10 Jun 94

MRL = Minimum Reporting Limit

*Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE4253.DOC/sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
3326	06/24/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	06/27/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	06/20/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

Reviewed and Approved: Patricia A. Adler 2/2
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

August 23, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:3

PCA: 46141
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV694-52
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 06/16/94
Time Sampled: 09:25:00
Date Lab Rec: 06/16/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: CORRECTED REPORT FOR DATE SAMPLED.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MI REPORTING LI
33308		*								
	07/19/94	SDW ALL INORGANICS								
	06/16/94	* Alkalinity, Phenol.	ND		415	EPA 310.1	2.0	mg/l	NA	
	06/16/94	* Alkalinity, Total	ND		410	EPA 310.1	2.0	mg/l	NA	
	06/27/94	* Chloride	ND		940	Std Meth 407C	1.0	mg/l	NA	
	07/06/94	* Fluoride	ND		951	EPA 340.2	0.20	mg/l	NA	
	06/16/94	* pH	5.40		403	EPA 150.1	0.1	SU		
	07/01/94	* Hardness (CaCO3)	ND		900	EPA 130.2	10	mg/l	NA	
	06/20/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	06/16/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	06/20/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	N/A	
	06/24/94	* Sulfate (SO4)	ND		945	EPA 375.2	10.0	mg/l	NA	
	06/16/94	* Total Dissolved Solids	ND		515	EPA 160.1	10	mg/l	NA	
	06/16/94	* Turbidity	0.02	NTU	82079	EPA 180.1	0.01	NTU	NA	
	06/17/94	* Calcium	ND <5.0	mg/l	916/915	EPA 200.7/215.1	1.0	mg/l	NA	
	06/17/94	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l	NA	
	06/17/94	* Sodium	ND		929/930	EPA 200.7/273.1	5.0	mg/l	NA	
	07/13/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l	N/A	
	07/19/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	07/12/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	07/13/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	07/12/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
	06/21/94	* Copper	ND		1042/1040	EPA 220.1	0.010	mg/l	NA	
	07/12/94	* Iron	ND		1045/1046	EPA 200.7/236.1	0.10	mg/l	NA	
	06/24/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	07/12/94	* Manganese	ND		1055/1056	EPA 200.7/243.1	0.05	mg/l	NA	
	06/29/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	07/18/94	* Selenium	ND <0.125	mg/l	1147/1145	EPA 270.2	0.005	mg/l	NA	

Reviewed and Approved: Rosa Ann Passerotti for P. Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry 1/7-2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
18308	06/24/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
	07/12/94	* Zinc	ND	1092/1090	EPA 289.1	0.05 mg/l	NA	
	07/11/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020			
	06/17/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020			

Reviewed and Approved: R Pasqualone for P. Adler
Phyllis A. Adler, Manager
Office of Environmental and Analytical Chemistry

2 of 2

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 31 Aug 94
Date Received: 01 Sep 94
Date Reported: 11 Oct 94
McKenzie I.D.: E94-7131

Client Identification: MW894-2

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Calcium	mg/L	<0.10	0.10	200.7	04 Oct 94
Copper	mg/L	<0.05	0.05	200.7	04 Oct 94
Iron	mg/L	<0.05	0.05	200.7	04 Oct 94
Magnesium	mg/L	<0.20	0.20	200.7	04 Oct 94
Manganese	mg/L	<0.05	0.05	200.7	04 Oct 94
Sodium	mg/L	<1.0	1.0	200.7	04 Oct 94
Zinc	mg/L	<0.05	0.05	200.7	04 Oct 94
Non-Metals					
Chloride	mg/L	<5.0	5.0	325.2	26 Sep 94
Hardness	mg/L	<1	1	200.7	04 Oct 94
Sulfate	mg/L	<5.0	5.0	375.4	04 Oct 94

MRL = Minimum Reporting Limit

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE7130a.DOC:sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

December 30, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-03
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 11/29/94
Time Sampled: 14:05:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR NITRITE AND TURBIDITY.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1299		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	ND		951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	0.02	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/05/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	ND		410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	6.17		403	EPA 150.1	0.1	SU		
	12/02/94	* Total Dissolved Solids	ND		515	EPA 160.1	10	mg/l		
		*								
	12/07/94	* Hardness (CaCO3)	ND		900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	ND		916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	ND		929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

ewed and Approved: Patricia A Adler
icia A. Adler, Manager
ce of Environmental and Analytical Chemistry 1/9 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED		COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
299		*								
	12/14/94	*	Copper	ND	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/08/94	*	Iron	ND	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/08/94	*	Manganese	ND	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/08/94	*	Zinc	ND	1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	*	Chloride	ND	940	Std Meth 407	1.0	mg/l		
	12/07/94	*	Sulfate (SO4)	ND	945	EPA 375.2	10.0	mg/l		
	12/05/94		Total Recoverable Metals-ICP	Yes		EPA600/4-79-020				
	12/05/94		Total Recoverable Metals-AAS	Yes		EPA600/4-79-020				

ed and Approved: Patricia A. Adler
ia A. Adler, Manager
of Environmental and Analytical Chemistry

292

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

December 30, 1994

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-14
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 11/30/94
Time Sampled: 17:44:00
Date Lab Rec: 12/02/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR NITRITE AND TURBIDITY.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
11382		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	ND		951	EPA 340.2	0.20	mg/l	NA	
	12/06/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/06/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/02/94	* Turbidity	0.01	NTU	82079	EPA 180.1	0.01	NTU		
	12/08/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/08/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/07/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/06/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/06/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/08/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/12/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/07/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/06/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/06/94	* Alkalinity, Total	ND		410	EPA 310.1	2.0	mg/l		
	12/02/94	* pH	6.44		403	EPA 150.1	0.1	SU		
	12/07/94	* Total Dissolved Solids	ND		515	EPA 160.1	10	mg/l		
		*								
	12/07/94	* Hardness (CaCO3)	ND		900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	ND		916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	ND		929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler 1/9/2
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
302		*							
	12/14/94	* Copper	ND	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/06/94	* Iron	ND	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/06/94	* Manganese	ND	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/06/94	* Zinc	ND	1092/1090	EPA 289.1	0.05	mg/l		
	12/06/94	* Chloride	ND	940	Std Meth 407	1.0	mg/l		
	12/07/94	* Sulfate (SO4)	ND	945	EPA 375.2	10.0	mg/l		
	12/05/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020				
	12/05/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020				

ed and Approved: Patricia A. Adler
ia A. Adler, Manager
of Environmental and Analytical Chemistry

292

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10802

Client Identification: MV1294-18

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Alkalinity: Total	mg/L as $CaCO_3$	12	5.0	*SM-2320B	05 Dec 94
pH	SU	6.7	N/A	150.1	02 Dec 94
Calcium	mg/L	<0.05	0.05	200.7	16 Dec 94
Chloride	mg/L	<5.0	5.0	325.2	14 Dec 94
Fluoride	mg/L	<0.10	0.10	340.2	16 Dec 94
Magnesium	mg/L	<0.05	0.05	200.7	16 Dec 94
Hardness	mg/L	<0.50	0.50	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	13 Dec 94
Sulfate	mg/L	<5.0	5.0	375.4	14 Dec 94
TDS	mg/L	<5.0	5.0	160.1	05 Dec 94
Specific Conductance	µmhos/cm	1.77	1.0	120.1	06 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC sl

McKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Reported: 28 Dec 94
McKenzie I.D.: E94-10802

Client Identification: MV1294-18

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	09 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	<0.05	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	14 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	12 Dec 94
Silver	mg/L	<0.005	0.005	272.2	08 Dec 94
Sodium	mg/L	<1.0	1.0	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94

MRL = Minimum Reporting Limit

Maja Chadwick
Maja Chadwick, Inorganic Lab Manager

ADE10798.DOC.sl

McKENZIE

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 01 Dec 94
Date Received: 02 Dec 94
Date Analyzed: 10 Dec 94
Date Reported: 20 Dec 94
McKenzie I.D.: E94-10802
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-18	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene	95	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADEQ0800.DOC sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 3, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-26
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/05/94
Time Sampled: 16:07:00
Date Lab Rec: 12/09/94

lote: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

omments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND NITRITE.

-- ANALYTICAL RESULTS --

#	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
45		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	ND		951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.25	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/200.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/27/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/22/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	ND		410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	6.50		403	EPA 150.1	0.1	SU		
	12/12/94	* Total Dissolved Solids	ND		515	EPA 160.1	10	mg/l		
		*								
	12/21/94	* Hardness (CaCO3)	ND		900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	ND		916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	ND		929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

l and Approved: Patricia A Adler 1/9/2
t A. Adler, Manager
of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1345		*							
	12/16/94	* Copper	ND	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	ND	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND	1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	ND	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	ND	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020				

ewed and Approved: Patricia A. Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

McKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 06 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11008

Client Identification: MV1294-39

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	8.0	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	0.07	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	<0.05	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	<0.20	0.20	200.7	16 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	<0.50	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	<5.0	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	<5.0	5.0	325.2	03 Jan 95
Fluoride	mg/L	<0.10	0.10	340.2	16 Dec 94
Hardness	mg/L	<1.0	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	29 Dec 94
Sulfate	mg/L	<5.0	5.0	375.4	29 Dec 94
TDS	mg/L	<5.0	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	3.0	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC:sl

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 3, 1995

PATTI TUVE	TYPE OF SAMPLE: GROUND WATER	PCA:	52000	Sample Name:	
ADEQ	Custody: Y	PROJECT/PH:	994600-01	Station:	
3033 N. CENTRAL	Priority:2	GRANT/PH:	N/A	Date Sampled:	12/07/94
PHOENIX, AZ 85012		SITE ID:	AV1294-42	Time Sampled:	09:35:00
		PWS NUMBER:		Date Lab Rec:	12/09/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR TURBIDITY AND TDS.

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1355		*								
	12/27/94	SDW PRIMARY STANDARDS								
	12/27/94	* Fluoride	ND		951	EPA 340.2	0.20	mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	12/09/94	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	12/10/94	* Turbidity	0.06	NTU	82079	EPA 180.1	0.01	NTU		
	12/21/94	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	12/16/94	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	12/15/94	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	12/14/94	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	12/15/94	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	12/23/94	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	12/27/94	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	12/15/94	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	12/29/94	SDW SECONDARY STANDARDS								
	12/12/94	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	12/12/94	* Alkalinity, Total	ND		410	EPA 310.1	2.0	mg/l		
	12/09/94	* pH	7.04		403	EPA 150.1	0.1	SU		
	12/15/94	* Total Dissolved Solids	ND		515	EPA 160.1	10	mg/l		
		*								
	12/23/94	* Hardness (CaCO3)	ND		900	EPA 130.2	10	mg/l		
	12/13/94	* Calcium	ND		916/915	EPA 200.7/215.1	1.0	mg/l		
	12/13/94	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l		
	12/13/94	* Sodium	ND		929/930	EPA 200.7/273.1	5.0	mg/l		
	12/22/94	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved: Patricia A. Adler
Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

1 of 2

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1355		*							
	12/29/94	* Copper	ND	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/16/94	* Iron	ND	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/16/94	* Manganese	ND	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/16/94	* Zinc	ND	1092/1090	EPA 289.1	0.05	mg/l		
	12/20/94	* Chloride	ND	940	Std Meth 407	1.0	mg/l		
	12/13/94	* Sulfate (SO4)	ND	945	EPA 375.2	10.0	mg/l		
	12/13/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020				

wed and Approved: Patricia A Adler
cia A. Adler, Manager
e of Environmental and Analytical Chemistry

2 of 2

MCKENZIE

Arizona Department of Environmental Quality
3033 N. Central Avenue
Phoenix, AZ 85012

Date Sampled: 08 Dec 94
Date Received: 09 Dec 94
Date Reported: 05 Jan 95
McKenzie I.D.: E94-11015

Client Identification: MV1294-54

Parameter	Units	Result	MRL	EPA Method	Date Analyzed
Physicals					
pH	SU	7.0	N/A	150.1	09 Dec 94
Metals					
Arsenic	mg/L	<0.005	0.005	206.2	19 Dec 94
Barium	mg/L	<0.05	0.05	200.7	16 Dec 94
Cadmium	mg/L	<0.0005	0.0005	213.2	22 Dec 94
Calcium	mg/L	<0.05	0.05	200.7	16 Dec 94
Chromium	mg/L	<0.005	0.005	218.2	27 Dec 94
Copper	mg/L	<0.05	0.05	200.7	16 Dec 94
Iron	mg/L	<0.05	0.05	200.7	16 Dec 94
Lead	mg/L	<0.005	0.005	239.2	21 Dec 94
Magnesium	mg/L	<0.20	0.20	200.7	16 Dec 94
Manganese	mg/L	<0.05	0.05	200.7	16 Dec 94
Mercury	mg/L	<0.0002	0.0002	245.1	15 Dec 94
Selenium	mg/L	<0.005	0.005	270.2	21 Dec 94
Silver	mg/L	<0.005	0.005	272.2	20 Dec 94
Sodium	mg/L	<0.50	0.50	200.7	16 Dec 94
Zinc	mg/L	<0.05	0.05	200.7	16 Dec 94
Non-Metals					
Alkalinity	mg/L as $CaCO_3$	<5.0	5.0	*SM 2320B	14 Dec 94
Chloride	mg/L	<5.0	5.0	325.2	03 Jan 95
Fluoride	mg/L	<0.10	0.10	340.2	16 Dec 94
Hardness	mg/L	<1.0	1.0	200.7	16 Dec 94
Nitrate/Nitrite as N	mg/L	<0.10	0.10	353.2	29 Dec 94
Sulfate	mg/L	<5.0	5.0	375.4	29 Dec 94
TDS	mg/L	<5.0	5.0	160.1	13 Dec 94
Specific Conductance	µmhos/cm	1.8	1.0	120.1	13 Dec 94

MRL = Minimum Reporting Limit

* Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989.

Maja Chadwick

Maja Chadwick, Inorganic Lab Manager

ADE11002.DOC/sl

ATEL

Aqua Tech Environmental Laboratories Inc.

Client: MCKENZIE LABORATORIES
ATEL Sample No.: 94-16856-MEL
Date Sampled: 12/08/94
Date Received: 12/13/94
Date Extracted: 12/14/94
Date Analyzed: 01/03/95
Client ID: MV1294-54

Method: SW-846; 8270
Sample Type: WATER
Percent Solids:
Analyst: CAM
Project No.: MO 5506 ORG

Compound	Concentration - ug/l (ppb)
Chlorpyrifos	< 5.0
Malathion	< 5.0
Cypermethrin	< 5.0
Monocrotophos	< 50.0
Butifos	< 5.0
Ethyl Parathion	< 5.0
Methyl Parathion	< 5.0
Chlordimeform	< 5.0
Fluazifop-butyl	< 5.0
Azinphos-methyl	< 5.0
Methomyl	< 5.0
Permethrin	< 5.0
Trifluralin	< 5.0
Metribuzin	< 5.0
2,4-D	< 20.0

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 20, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-62
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/12/94
Time Sampled: 17:33:00
Date Lab Rec: 12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR NITRITE AND TURBIDITY.

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
368		*						
	12/29/94	SDW PRIMARY STANDARDS						
	12/27/94	* Fluoride	ND	951	EPA 340.2	0.20 mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	ND	630	EPA 353.2	0.10 mg-N/l	NA	
	12/15/94	* Nitrite as N (NO2-N)	ND	615	EPA 353.2	0.10 mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	ND	620	EPA 353.2	0.10 mg-N/l	NA	
	12/14/94	* Turbidity	0.07 NTU	82079	EPA 180.1	0.01 NTU		
	12/22/94	* Arsenic	ND	1002/1000	EPA 206.2	0.010 mg/l	NA	
	12/29/94	* Barium	ND	1007/1025	EPA 200.7/200.1	0.10 mg/l	NA	
	12/20/94	* Cadmium	ND	1027/1025	EPA 213.2	0.0010mg/l	NA	
	12/19/94	* Chromium	ND	1034/1032	EPA 218.2	0.010 mg/l	NA	
		*						
	12/19/94	* Lead	ND	1051/1049	EPA 239.2	0.005 mg/l	NA	
	12/23/94	* Mercury	ND	71900/71890	EPA 245.1	0.0005mg/l	NA	
	12/27/94	* Selenium	ND	1147/1145	EPA 270.2	0.005 mg/l	NA	
	12/19/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
		*						
	01/12/95	SDW SECONDARY STANDARDS						
	12/14/94	* Alkalinity, Phenol	ND	415	EPA 310.1	2.0 mg/l		
	12/14/94	* Alkalinity, Total	ND	410	EPA 310.1	2.0 mg/l		
	12/14/94	* pH	5.94	403	EPA 150.1	0.1 SU		
	12/15/94	* Total Dissolved Solids	ND	515	EPA 160.1	10 mg/l		
		*						
	12/27/94	* Hardness (CaCO3)	ND	900	EPA 130.2	10 mg/l		
	01/09/95	* Calcium	ND < 5.0 mg/l	916/915	EPA 200.7/215.1	1.0 mg/l		
	01/09/95	* Magnesium	ND	927/925	EPA 200.7/242.1	1.0 mg/l		
	01/09/95	* Sodium	ND	929/930	EPA 200.7/273.1	5.0 mg/l		
	01/12/95	* Aluminum	ND	1105/1106	EPA 202.1	0.50 mg/l		

Reviewed and Approved: Patricia A. Adler '92

Patricia A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

) #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
168		*							
	12/21/94	* Copper	ND	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	01/12/95	* Iron	ND	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/29/94	* Manganese	ND	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/29/94	* Zinc	ND	1092/1090	EPA 289.1	0.05	mg/l		
	12/21/94	* Chloride	ND	940	Std Meth 407	1.0	mg/l		
	01/09/95	* Sulfate (SO4)	ND	945	EPA 375.2	10.0	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020				
	12/15/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020				

ed and Approved:
a A. Adler, Manager
of Environmental and Analytical Chemistry

292

MCKENZIE
LABORATORIES

REPORT OF ANALYSIS

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 12 Dec 94
Date Received: 14 Dec 94
Date Analyzed: 16 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11173
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-62	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene (PID)	97	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE11167.DOC/cap

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR
1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

January 17, 1995

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 52000
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID: MV1294-63
PWS NUMBER:

Sample Name:
Station:
Date Sampled: 12/13/94
Time Sampled: 08:15:00
Date Lab Rec: 12/14/94

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: None

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT	SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
169		*						
	01/11/95	SDW PRIMARY STANDARDS						
	12/30/94	* Fluoride	ND	951	EPA 340.2	0.20 mg/l	NA	
	12/15/94	* Nitrite-Nitrate Total N	ND	630	EPA 353.2	0.10 mg-N/l	NA	
	12/15/94	* Nitrite as N (NO2-N)	ND	615	EPA 353.2	0.10 mg-N/l	NA	
	12/15/94	* Nitrate as N (NO3-N)	ND	620	EPA 353.2	0.10 mg-N/l	NA	
	12/14/94	* Turbidity	0.66 NTU	82079	EPA 180.1	0.01 NTU		
	12/22/94	* Arsenic	ND	1002/1000	EPA 206.2	0.010 mg/l	NA	
	12/29/94	* Barium	ND	1007/1005	EPA 200.7/208.1	0.10 mg/l	NA	
	12/20/94	* Cadmium	ND	1027/1025	EPA 213.2	0.0010mg/l	NA	
	12/19/94	* Chromium	ND	1034/1032	EPA 218.2	0.010 mg/l	NA	
		*						
	12/19/94	* Lead	ND	1051/1049	EPA 239.2	0.005 mg/l	NA	
	01/11/95	* Mercury	ND	71900/71890	EPA 245.1	0.0005mg/l	NA	
	12/27/94	* Selenium	ND	1147/1145	EPA 270.2	0.005 mg/l	NA	
	12/19/94	* Silver	ND	1077/1075	EPA 272.2	0.001 mg/l	NA	
		*						
	01/12/95	SDW SECONDARY STANDARDS						
	12/14/94	* Alkalinity, Phenol	ND	415	EPA 310.1	2.0 mg/l		
	12/14/94	* Alkalinity, Total	ND	410	EPA 310.1	2.0 mg/l		
	12/14/94	* pH	5.54	403	EPA 150.1	0.1 SU		
	12/15/94	* Total Dissolved Solids	ND	515	EPA 160.1	10 mg/l		
		*						
	12/27/94	* Hardness (CaCO3)	ND	900	EPA 130.2	10 mg/l		
	01/09/95	* Calcium	ND < 5.0 mg/l	916/915	EPA 200.7/215.1	1.0 mg/l		
	01/09/95	* Magnesium	ND	927/925	EPA 200.7/242.1	1.0 mg/l		
	01/09/95	* Sodium	ND	929/930	EPA 200.7/273.1	5.0 mg/l		
	01/12/95	* Aluminum	ND	1105/1106	EPA 202.1	0.50 mg/l		

d and Approved:
a A. Adler, Manager
of Environmental and Analytical Chemistry

1/92

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

AB #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER MIN. REPORTING LMT		SOLIDS METHOD REFERENCE	SOLIDS MIN. REPORTING LMT
1369		*							
	12/21/94	* Copper	ND	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	12/29/94	* Iron	ND	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	12/29/94	* Manganese	ND	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	12/29/94	* Zinc	ND	1092/1090	EPA 289.1	0.05	mg/l		
	12/21/94	* Chloride	ND	940	Std Meth 407	1.0	mg/l		
	01/09/95	* Sulfate (SO4)	ND	945	EPA 375.2	10.0	mg/l		
	12/28/94	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020				
	12/13/94	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020				

ec and Approved: Patricia Nickler
ricia A. Adler, Manager
e of Environmental and Analytical Chemistry

292

MCKENZIE

Arizona Department of Environmental Quality
Attn: Patti Tuve
3033 N. Central Ave.
Phoenix, AZ 85012

Date Sampled: 13 Dec 94
Date Received: 14 Dec 94
Date Analyzed: 16 Dec 94
Date Reported: 27 Dec 94
McKenzie I.D.: E94-11174
Units Reported: µg/L (ppb)

EPA 602

Compound	MV1294-63	MRL
Benzene	ND	0.5
Chlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Toluene	ND	0.5
m,p-Xylene	ND	1.0
o-Xylene	ND	0.5
Surrogate Recovery (%)		
1-Chloro-2-fluorobenzene (PID)	92	

MRL = Minimum Reporting Limit
ND = None Detected

Scott J. Jordan, Organic Lab Manager

ADE11167.DOC/sap

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

March 15, 1995

BARBARA J. ERICKSON, Ph.D., ASSISTANT DIRECTOR

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

PATTI TUVE
ADEQ
3033 N. CENTRAL
PHOENIX, AZ 85012

TYPE OF SAMPLE: GROUND WATER
Custody: Y
Priority:2

PCA: 92001
PROJECT/PH: 994600-01
GRANT/PH: N/A
SITE ID:
PWS NUMBER:

Sample Name: MV295-02
Station:
Date Sampled: 02/07/95
Time Sampled: 14:01:00
Date Lab Rec: 02/08/95

Note: All samples, including chain-of-custody, will be disposed of within 30 days unless a "Save Sample" form is received by the Chemistry Laboratory. All lab QA is within the limits defined in the SLS QA Manual unless otherwise noted in the report. "ND" means none detected at the MRL specified. "TR" means present at less than MRL, but not quantifiable.

Comments: EXCEEDED RECOMMENDED HOLDING TIME FOR FLUORIDE

-- ANALYTICAL RESULTS --

LAB #	DATE ANALYZED	COMPOUND	RESULT		STORET NUMBER	WATER METHOD REFERENCE	WATER METHOD REPORTING LMT		SOLIDS METHOD REFERENCE	SOLID METHOD REPORTING LMT
853		*								
	03/14/95	SDW PRIMARY STANDARDS								
	03/14/95	* Fluoride	ND		951	EPA 340.2	0.20	mg/l	NA	
	02/13/95	* Nitrite-Nitrate Total N	ND		630	EPA 353.2	0.10	mg-N/l	NA	
	02/08/95	* Nitrite as N (NO2-N)	ND		615	EPA 353.2	0.10	mg-N/l	NA	
	02/13/95	* Nitrate as N (NO3-N)	ND		620	EPA 353.2	0.10	mg-N/l	NA	
	02/08/95	* Turbidity	0.08	NTU	82079	EPA 180.1	0.01	NTU		
	02/16/95	* Arsenic	ND		1002/1000	EPA 206.2	0.010	mg/l	NA	
	02/13/95	* Barium	ND		1007/1005	EPA 200.7/208.1	0.10	mg/l	NA	
	02/15/95	* Cadmium	ND		1027/1025	EPA 213.2	0.0010	mg/l	NA	
	02/10/95	* Chromium	ND		1034/1032	EPA 218.2	0.010	mg/l	NA	
		*								
	02/10/95	* Lead	ND		1051/1049	EPA 239.2	0.005	mg/l	NA	
	02/10/95	* Mercury	ND		71900/71890	EPA 245.1	0.0005	mg/l	NA	
	02/15/95	* Selenium	ND		1147/1145	EPA 270.2	0.005	mg/l	NA	
	02/15/95	* Silver	ND		1077/1075	EPA 272.2	0.001	mg/l	NA	
		*								
	02/14/95	SDW SECONDARY STANDARDS								
	02/08/95	* Alkalinity, Phenol	ND		415	EPA 310.1	2.0	mg/l		
	02/08/95	* Alkalinity, Total	3.1	mg/l	410	EPA 310.1	2.0	mg/l		
	02/08/95	* pH	6.88		403	EPA 150.1	0.1	SU		
	02/14/95	* Total Dissolved Solids	ND		515	EPA 160.1	10	mg/l		
		*								
	02/10/95	* Hardness (CaCO3)	ND		900	EPA 130.2	10	mg/l		
	02/13/95	* Calcium	ND		916/915	EPA 200.7/215.1	1.0	mg/l		
	02/13/95	* Magnesium	ND		927/925	EPA 200.7/242.1	1.0	mg/l		
	02/13/95	* Sodium	ND		929/930	EPA 200.7/273.1	5.0	mg/l		
	02/14/95	* Aluminum	ND		1105/1106	EPA 202.1	0.50	mg/l		

Reviewed and Approved:

Otis A. Adler, Manager
Office of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

1520 West Adams, Phoenix, Arizona 85007
(602) 542-6108

-- ANALYTICAL RESULTS --

B #	DATE ANALYZED	COMPOUND	RESULT	STORET NUMBER	WATER METHOD REFERENCE	WATER METHOD REPORTING LMT		SOLIDS METHOD REFERENCE	SOLID METHOD REPORTING LMT
853		*							
	02/09/95	* Copper	ND	1042/1040	EPA 220.1/220.2	0.10	mg/l		
	02/13/95	* Iron	ND	1045/1046	EPA 200.7/236.1	0.10	mg/l		
	02/13/95	* Manganese	ND	1055/1056	EPA 200.7/243.1	0.05	mg/l		
	02/13/95	* Zinc	ND	1092/1090	EPA 289.1	0.05	mg/l		
	02/08/95	* Chloride	ND	940	Std Meth 407	1.0	mg/l		
	02/13/95	* Sulfate (SO4)	ND	945	EPA 375.2	10.0	mg/l		
	02/09/95	Total Recoverable Metals-ICP	Yes		EPA600/4-79-020				
	02/09/95	Total Recoverable Metals-AAS	Yes		EPA600/4-79-020				

ed and Approved:
ia A. Adler, Manager
of Environmental and Analytical Chemistry

CHAIN OF CUSTODY

Chain of Custody

(602, .0-0288
FAX (602) 470-0756

DATE 6-6-94 PAGE 1 of 4

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 2033 N. Central Ave.
Phoenix, Az 85012

BILL TO: Pat Tuve

COMPANY: ADEQ

ADDRESS: 2033 N. Central Ave Phoenix 85012

Pat Tuve 207-4467 207-4476
SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MV694-01	4°	Plastic	6/6/94	1:05pm	g.w.	
	N/A	Plastic	6/6/94	1:14pm	g.w.	
	S/A	Plastic	6/6/94	1:16pm	g.w.	
MV694-02	4°	Plastic	6/6/94	2:21pm	g.w.	
	N/A	Plastic	6/6/94	2:23pm	g.w.	
	S/A	Plastic	6/6/94	2:32pm	g.w.	
MV694-03	4°	Plastic	6/6/94	2:37pm	g.w.	
	N/A	Plastic	6/6/94	2:38pm	g.w.	
	S/A	Plastic	6/6/94	2:39pm	g.w.	

ANALYSIS REQUEST

	NUMBER OF CONTAINERS
Petroleum Hydrocarbons (418.1 / 418.1 AZ)	
BTXE (8020)	
Chlorinated Hydrocarbons (601/8010)	
Aromatic Hydrocarbons (602/8020)	
Organochlorine Pesticides (608/8080)	
Chlorinated Herbicides (615/8150)	
Organophosphate Pesticides (614/8140)	
Semi-Volatile Organics GC/MS (625/8270)	
Volatile Organics GC/MS (624/8240)	
SDWA Primary Standards	1
SDWA Secondary Standards	1
SDWA Volatiles (502.1/503.1/502.2)	1
The 13 Priority Pollutant Metals	1
The 8 TC Metals by TCLP (1311)	1

PROJECT INFORMATION

PROJECT NO: 94.0.01
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS:
CHAIN OF CUSTODY SEALS:
RECEIVED INTACT:
TEMPERATURE: AMBIENT / COLD
ICE: PRESENT / ABSENT
WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: 4°C - Iced
DCM 6/6/94
Auth Co: 1334

* Samples will be discarded / returned after 90 days

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Pat Tuve Time: 17:34	Signature: Time:	Signature: Time:
Printed Name: Pat Tuve Date: 6-7-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES
[illegible] Labs
372 Atlanta Ave.
Ph. , AZ 85040
(602) 470-0288
FAX (602) 470-0758

Chain of Custody

DATE 6-6-94 PAGE 2 of 4

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central Ave
Phoenix, AZ 85012

BILL TO: Pam Tuve

COMPANY: Same

ADDRESS:

[illegible] 207-4417 207-4476
SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MV694-04	4°C	P	6-6-94	3:34pm	g.w	
	N/A	P	6-6-94	3:37pm	g.w	
	3/4°C	P	6-6-94	3:37p	g.w	
MV694-05	4°C	P	6-7-94	10:05am	g.w	
	N/A	P	6-7-94	10:10am	g.w	
	3/4°C	P	6-7-94	10:11am	g.w	
MV694-10	4°C	P	6-7-94	11:03	g.w	
	N/A	P	6-7-94	11:04	g.w	
	3/4°C	P	6-7-94	11:05	g.w	

ANALYSIS REQUEST

	Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)			Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)		Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)			SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)									NUMBER OF CONTAINERS
MV694-04															X	X												1
															X	X												1
															X	X												1
MV694-05															X	X												1
															X	X												1
															X	X												1
MV694-10															X	X												1
															X	X												1
															X	X												1

PROJECT INFORMATION

PROJECT NO:	94660-01
PROJECT NAME:	
P.O. NO.:	
SHIPPED VIA:	
SAMPLE DISPOSAL INSTRUCTIONS*	
☐ McKENZIE ☐ RETURN	

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS:	
CHAIN OF CUSTODY SEALS:	
RECEIVED INTACT:	
TEMPERATURE: AMBIENT / COLD	
ICE: PRESENT / ABSENT	
WET / BLUE	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: N = Nitric Acid
S = H2SO4
HC = HCl

PCM # 46101
Hall Code: 4334

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time: 17:51	Signature: Time:	Signature: Time:
Printed Name: Pam Tuve Date: 6-7-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

LABORATORIES

Chain of Custody

3727 Atlanta Ave.
Phoenix, AZ 85040
(602) 470-0288
FAX (602) 470-0756

DATE 6-7-94 PAGE 3 of 4

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N Central Ave
Phoenix, Az 85012

BILL TO: Dan Tuite

COMPANY: ADEQ

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER 602-4476 PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW94-13	4°C	Plastic	6-7-94	1:51pm	gw	
	2 4°C		6-7-94	1:32pm		
	3 4°C		6-7-94	1:40pm		
MW94-14	4°C		6-7-94	2:37pm		
	2 4°C		6-7-94	2:39pm		
	3 4°C		6-7-94	2:41pm		
MW94-15	4°C		6-7-94	2:38pm		
	2 4°C		6-7-94	2:40pm		
	3 4°C		6-7-94	2:43pm		

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1

PROJECT INFORMATION

PROJECT NO: 94-600-01

PROJECT NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS:

CHAIN OF CUSTODY SEALS:

RECEIVED INTACT:

TEMPERATURE: AMBIENT /COLD

ICE: PRESENT / ABSENT

WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: D = Nitric Acid Prm 46141
S = H2SO4
HCl = HCl Acid Cd: 4334

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 17:34	Signature: Time:	Signature: Time:
Printed Name: Dan Tuite Date: 6-7-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES

Chain of Custody

McKenzie Labs
3727 Atlanta Ave.
Phoenix AZ 85040
(602) 470-0288
FAX (602) 470-0756

DATE 6-7-94 PAGE 1 of 1

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, Az 85012

BILL TO: Pat Tice

COMPANY: ADEQ

ADDRESS:

Pat Tice 207-4446
SAMPLERS: (Signature) PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MV694-10	HCl	40ml	6-7-94	11:07am	gw	
MV694-14	HCl	"	6-7-94	2:30pm	"	
MV694-15	HCl	"	6-7-94	2:32pm	"	
MV694-16	HCl	"	6-7-94	3:44pm	"	
MV694-05	HCl	"	6-7-94	1:35pm	"	
MV694-11	HCl	"	6-7-94	12:25	"	

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1)	Volatile Organics (502.2)	BLS-181 (418.1)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
			X													6
			X													6
			X													6
			X													6
			X													6
			X													6

PROJECT INFORMATION

PROJECT NO: 94666-01

PROJECT NAME: McClave Ranch

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND./COLD	
LAB NUMBER	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: 1 = HCl * pCA 4446 TPT
TC - Pb * Auth. Code 4334

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Pat Tice Time: 17:35	Signature: Time:	Signature: Time:
Printed Name: Pat Tice Date: 6-7-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

* Samples will be discarded / returned after 30 days

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES
[illegible]
37 [illegible] Atlanta Ave.
Phoenix, AZ 85040
(602) 470-0888
FAX (602) 470-0756

Chain of Custody

DATE 6-7-94 PAGE 1 of 2

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central Ave
Phoenix, AZ 85012

BILL TO: Lynn Fine

COMPANY: ADEQ

ADDRESS:

Lynn Fine 207-4446
SAMPLERS: (Signature) PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW94-07	H/C	Plastic	6-7-94	9:56	gw	
	N/HC	"		9:56	"	
"	S/HC	"		9:56	"	
MW94-06	H/C	"	"	10:25	"	
	N/HC	"	"	10:25	"	
"	S/HC	"	"	10:25	"	
MW94-08	H/C	"	"	11:15	"	
	N/HC	"	"	11:15	"	
"	S/HC	"	"	11:15	"	

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1)	Volatile Organics (502.2)	BLS-181 (418.1)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
											X	X				1
											X	X				1
											X	X				1
											X	X				1
											X	X				1
											X	X				1
											X	X				1
											X	X				1
											X	X				1

PROJECT INFORMATION

PROJECT NO: 94-11-01
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS
CHAIN OF CUSTODY SEALS
INTACT?
RECEIVED GOOD COND./COLD
LAB NUMBER

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: 1 - Nitrate
2 - Nitrite
MW4 - 11641
Well Co: 139

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature] Time: 12:14	Signature: Time:	Signature: Time:
Printed Name: Lynn Fine Date: 6-7-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

LABORATORIES

Chain of Custody

377 Atlanta Ave.
Phx, AZ 85040
(602) 470-0288
FAX (602) 470-0756

DATE 6-8-94 PAGE 1 of 2

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, AZ 85012

BILL TO: ADEQ Fund

COMPANY: ADEQ

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER 417-4414 PHONE NUMBER

ANALYSIS REQUEST

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Metals	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
MW694-10	HCl	Plastic	6-7-94	9:31	GW												X	X				1
	HCl			9:32													X	X				1
	HCl			9:33																		1
	HCl		6-8-94	9:30													X	X				1
MW694-11	HCl	Plastic	6-7-94	10:10	GW						X											1
	HCl		6-8-94	10:15													X	X				3
	HCl		6-7-94	11:45													X	X				1
MW694-12	HCl	Plastic	6-7-94	13:10	GW												X	X				1
	HCl		6-8-94	13:10													X	X				1
																	X	X				1
																						1

PROJECT INFORMATION

PROJECT NO: 94600-01

PROJECT NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 12

CHAIN OF CUSTODY SEALS: Y

RECEIVED INTACT: Y

TEMPERATURE: AMBIENT / COLD

ICE: PRESENT / ABSENT

WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: PCH-B 4611

All C.O.C. 4334

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 1610	Signature: Time:	Signature: Time:
Printed Name: Date: Tom Tuite 6/8/94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES

McKenzie Labs
3725 Santa Ave.
Phoenix, AZ 85040
(602) 470-0288
FAX (602) 470-0756

Chain of Custody

DATE 6-8-94 PAGE 2 of 2

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central Ave
Phoenix, AZ 85012

BILL TO: Kazi Lane

COMPANY: ADEQ

ADDRESS:

SAMPLERS: (Signature) | FAX NUMBER | PHONE NUMBER: 207-4446

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MV694-18	4°C	VOA	6-8-94	15:10	SW	
MV694-19	4°C	AMBER	6-9-94	7:37	GW	
	4°C	HDPE	6-9-94	7:40	GW	
	4°C	VOA	6-9-94	7:38	GW	
	4°C	VOA	6-9-94	7:39	GW	
MV694-20	4°C	AMBER	6-9-94	8:29	GW	
	4°C	AMBER	6-9-94	8:30	GW	
	4°C	AMBER	6-9-94	8:31	GW	
	4°C	AMBER	6-9-94	8:32	GW	

ANALYSIS REQUEST

	Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)			Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)		Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)			SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)								NUMBER OF CONTAINERS:
MV694-18															X	X											1
MV694-19						X																					2
															X	X											1
															X	X											1
															X	X											1
MV694-20						X																					2
															X	X											1
															X	X											1
															X	X											1

PROJECT INFORMATION

PROJECT NO:	6W600-01
PROJECT NAME:	
P.O. NO.:	
SHIPPED VIA:	
SAMPLE DISPOSAL INSTRUCTIONS*	☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS:	11
CHAIN OF CUSTODY SEALS:	N
RECEIVED INTACT:	Y
TEMPERATURE:	AMBIENT / COLD
ICE:	PRESENT / ABSENT
	WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: Do Arsenic speciation on MV694-20 PCN # 46141 [illegible]

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature] Time:	Signature: Time:	Signature: Time:
Printed Name: Date: Kazi Lane	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: [signature] Time:	Signature: Time:	Signature: Time:
Printed Name: Date: [illegible]	Printed Name: Date:	Printed Name: Date:
Company: McKenzie	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs — Pink, Originator

LABORATORIES

Chain of Custody

[illegible] Alumia Ave.
Phoe[illegible], AZ 85040
(602) 470-0268
FAX (602) 470-0756

DATE 6-9-94 PAGE 1 of 1

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. CENTRAL AVE
PHOENIX, AZ 85012

BILL TO: [illegible]

COMPANY: SAME

ADDRESS:

[illegible] 602-414-46
SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW694-20	HCL	GLASS	6-9-94	8:27	gw	
MW694-21	HCL	GLASS	6-9-94	9:08	gw	
MW694-22	HCL	GLASS	6-9-94	9:10	gw	
MW694-23	HCL	GLASS	6-9-94	9:30	gw	
Trip Blank						

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
	X													2
	X													2
	X													2
	X													2

PROJECT INFORMATION

PROJECT NO: 694600-01
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 4
CHAIN OF CUSTODY SEALS:
RECEIVED INTACT: Y
TEMPERATURE: AMBIENT / COLD
ICE: PRESENT / ABSENT
WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: PCA # 46141
Ice Cold @ 4.3°C

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time:	Signature: Time:	Signature: Time:
Printed Name: Date: [illegible] 6-9-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: [illegible] Time:	Signature: Time:	Signature: Time:
Printed Name: [illegible] Date:	Printed Name: Date:	Printed Name: Date:
Company: [illegible]	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES

Chain of Custody

McKenzie Labs
3725 E. Atlanta Ave.
Phoenix, AZ 85040
(602) 470-0288
FAX (602) 470-0756

Alpha Test, Inc.
14603 N.E. 87th St.
Redmond, WA 98053
(206) 885-1664
FAX (206) 883-3495

CONTACT
1523 L J Ave.
Vancouver BC V6J 1J8
(604) 734-7876
FAX (604) 000 0000

DATE 6-9-94 PAGE 1 of 2

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. CENTRAL
PHOENIX, AZ 85012

BILL TO: PATTI TUVE

COMPANY: SAME

ADDRESS:

SAMPLERS: (Signature)

PHONE NUMBER: 207-4446

ANALYSIS REQUEST

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MV694-21	4°C	AMBER	6-9-94	9:11	GW	
	4°C	PLASTIC	6-9-94	9:15	GW	
	4°C	PLASTIC	6-9-94	9:15	GW	
	4°C	PLASTIC	6-9-94	9:15	GW	
MV694-22	4°C	AMBER	6-9-94	9:14	GW	
	4°C	PLASTIC	6-9-94	9:17	GW	
	4°C	PLASTIC	6-9-94	9:17	GW	
	4°C	PLASTIC	6-9-94	9:17	GW	
MV694-23	4°C	AMBER	6-9-94	9:30	GW	

Petroleum Hydrocarbons (418.1)	Volatile Organics (502.2)	BLS-181 (418.1/8020)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	MOHAVE Suite	Organochloride Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1)	The 13 Priority Pollutant Metals	The 8 EP-Tox Metals by TCLP (1311)	NUMBER OF CONTAINERS
						X						X	X				2
												X	X				1
												X	X				1
						X											2
												X	X				1
												X	X				1
												X	X				1
						X											1

PROJECT INFORMATION

PROJECT NO: 94-1600-01

PROJECT NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	12
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND./COLD	Cold
LAB NUMBER	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: N = NITRIC ACID
S = H2SO4
HCl = HCL

POH # 46141
McKenzie: 437

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 11:00	Signature: Time:	Signature: Time:
Printed Name: Date: PATTI TUVE 6-9-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	McKenzie Laboratories

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES

Chain of Custody

McKenzie Labs
3725 E. Atlanta Ave.
Phoenix, AZ 85040
(602) 470-0288
FAX (602) 470-0756

Dimtest, Inc.
14603 N.E. 87th St.
Redmond, WA 98053
(206) 885-1664
FAX (206) 883-3495

CHINTEX
1523 L J Ave
Vancouver BC V6J 1J8
(604) 734-7276
FAX (604) 000-0000

DATE 6-7-94 PAGE 2 of 2

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, Az. 85012

BILL TO: Patti Jane

COMPANY: Same

ADDRESS:

SAMPLERS: (Signature)

PHONE NUMBER 207-4446

ANALYSIS REQUEST

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW694-23	4°C	Plastic	6-9-94	9:30	gw	
	HNO3	Plastic	6-9-94	9:30	gw	
	5 gal	Plastic	6-9-94	9:30	gw	
MW694-24	4°C	Amber	6-9-94	10:35	gw	
	HCl	Plastic	6-9-94	10:35	gw	
	HNO3	Plastic	6-9-94	10:35	gw	
	5 gal	Plastic	6-9-94	10:35	gw	
	4°C	Amber	6-9-94	10:35	gw	

Petroleum Hydrocarbons (418.1)	Volatile Organics (502.2)	BLS-181 (418.1/8015)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Xylenes	Organochloride Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1)	The 13 Priority Pollutant Metals	The 8 EP-Tox Metals by TCLP (1311)	NUMBER OF CONTAINERS
												X	X				1
												X	X				1
												X	X				1
												X	X	-			1
												X	X				1
												X	X				1
												X	X				1
						X											3

PROJECT INFORMATION

PROJECT NO: 94116.00-01

PROJECT NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	6
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND./COLD	Y
LAB NUMBER	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: ADEQ Project Manager: Patti Jane (602) 207-4446

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Time:	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date: 6-7-94	Date:	Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature:	Signature:	Signature:
Time:	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date:	Date:	Date:
Company:	Company:	McKenzie Laboratories

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED Jun 15 12 ...
FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: Patti Tuve

PRINT NAME: Patti Tuve

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	COLLECTION Time	COLLECTION Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
	MV694-25	6-13-94	14:28			3
	MV694-26	6-13-94	14:22			3
	MV694-27	6-13-94	15:10			3
	MV694-28	6-13-94	16:20			3
	MV694-4	6-14-94	16:55			3

TOTAL NUMBER OF CONTAINERS 15

Relinquished By: (Signature)	Relinquished By: (Print name)	Received By: (Signature)	Received By: (Print name)	Date/Time	Comments
Patti Tuve	PATTI TUVE	David M. Watson	David M. Watson	6-15-94 / 10:43	6/15/94 16:15 opened sealed cooler

Final Disposal; Date & Time disposed: _____ Signature _____

ADHS Laboratory 128 (10/90)

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED 6/15 1330 #1
FOR LABORATORY USE ONLY

AGENCY NAME: A-DEQ

SAMPLER'S SIGNATURE: Patti Turner

PRINT NAME: PATTI TURNER

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
	MV694-2A	6-14-94	07:26		PRE-CHLORINATED	3
	MV694-32	6-14-94	07:44		PRE-CHLORINATED	3
	MV694-31	6-14-94	08:17		PRE-CHLORINATED	3
	MV694-3	6-14-94	08:33			3
	MV694-33	6-14-94	08:55			3
	MV694-34	6-14-94	09:20			3

TOTAL NUMBER OF CONTAINERS 18

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
Patti Turner	PATTI TURNER	David M. Watson	David M. Watson	6-15-94 / 10.47	6/15/94 16:15 opened/sealed cooler

Final Disposal; Date & Time disposed: _____ Signature _____

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED 15 4
FOR LABORATORY USE ONLY

AGENCY NAME: APEQ

SAMPLER'S SIGNATURE: Patti Tuve

PRINT NAME: PATTI TUVE

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
	MV694-35	6-14-94	09:35			3
	MV694-36	6-14-94	09:48			3
	MV694-37	6-14-94	11:37			3 FIL 4
	MV694-38	6-14-94	13:55			4
	MV694-39	6-14-94	14:51			4
	MV694-40	6-14-94	15:30			4
	MV694-41	6-14-94	15:25			4
	MV694-42	6-15-94	08:14			4
	MV694-43	6-15-94	08:20			4

TOTAL NUMBER OF CONTAINERS 31 33

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
Patti Tuve	PATTI TUVE	David M. Watson	David M. Watson	6-15-94/10:51	6/15/94 OPENED SEALED COOLER 16:15

Final Disposal; Date & Time disposed: _____ Signature _____

ADHS Laboratory 128 (10/90)

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED: ____ FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: Patti Tuve

PRINT NAME: Patti Tuve

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
	MV694-45	6-15-94	09:30			4
	MV694-46	6-15-94	10:15			4
					TOTAL NUMBER OF CONTAINERS	8

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
Patti Tuve			Patti Tuve	6-15-94 10:54	
		David M. Watson	David M. Watson	6/15/94 16:15	opened sealed cooler

Final Disposal; Date & Time disposed: _____ Signature _____

LABORATORIES

Chain of Custody

McKenzie Labs
3725 [illegible]lania Ave.
Phoe[illegible]AZ 85040
(602) [illegible]-0288
FAX (602) 470-0756

DATE 6-16-94 PAGE 1 of 1

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, Az. 85012

BILL TO: Patti Tuve

COMPANY: Same

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW6-94-51	HCl	glass	6-11-94	08:33	gw	
MW6-94-52	HCl	glass	6-11-94	9:25	gw	
MW6-94-53	HCl	glass	6-11-94	09:50	gw	
Trip Blank	HCl	glass	6-11-94		gw	

ANALYSIS REQUEST

	Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
MW6-94-51	X	X	X	X											2
MW6-94-52	X	X	X	X											2
MW6-94-53	X	X	X	X											2
Trip Blank	X	X	X	X											2

PROJECT INFORMATION

PROJECT NO: 94-1600-01
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS:	7
CHAIN OF CUSTODY SEALS:	Y
RECEIVED INTACT:	Y
TEMPERATURE: AMBIENT / COLD	
ICE: PRESENT / ABSENT	
WET / BLUE	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 15:58	Signature: Time:	Signature: Time:
Printed Name: Patti Tuve Date: 6-16-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES

Chain of Custody

Mcke ies
3725 E nta Ave.
Phoenix, AZ 85040
(602) 470-0288
FAX (602) 470-0756

DATE_____ PAGE____ of ____

PROJECT MANAGER:

COMPANY: AECOM

ADDRESS: 3033 N. Central
Phoenix, AZ

BILL TO: Lyn Tice

COMPANY: same

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW-99-64	HNO3	plastic	6-28-99	10:01	gw	
MW-99-64	HCl	plastic	6-28-99	10:01	gw	
MW-99-64	non	none	6-28-99	9:01	gw	
MW-99-64	non	VOA vial	6-28-99	09:01	gw	
MW-99-65	HCl	amber	6-28-99	09:55	gw	
MW-99-65	HCl	plastic	6-28-99	09:35	gw	
MW-99-65	HCl	VOA vial	6-28-99	09:35	gw	
MW-99-65	non	amber	6-28-99	09:55	gw	

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)		NUMBER OF CONTAINERS
									X	X				X	3
									X	X					1
									X	X					1
									X	X					1
														X	2
									X	X					1
									X	X					1
									X	X					1

PROJECT INFORMATION

PROJECT NO:
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 8
CHAIN OF CUSTODY SEALS: Y
RECEIVED INTACT: Y
TEMPERATURE: AMBIENT / COLD
ICE: PRESENT / ABSENT
WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☒ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:
1) 4501
2) AFW

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time: 13:11	Signature: Time:	Signature: Time:
Printed Name: Lyn Tice Date: 6-29-99	Printed Name: Date:	Printed Name: Date:
Company: AECOM	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED _____
FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: Patti Tune

PRINT NAME: Patti Tune

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
	MV684-1	6-15-94	13:57			3
	MV684-4	6-15-94	14:14			3
	MV684-3	6-15-94	15:34			3
	MV684-2	6-15-94	15:41			3
	MV684-5	6-16-94	08:33			3
	MV684-6	6-16-94	09:25			3
	MV684-7	6-16-94	09:55			3

TOTAL NUMBER OF CONTAINERS 21

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
Patti Tune	Patti Tune	Libby Farris	Libby Farris	6-16-94/15:35	

Final Disposal; Date & Time disposed: _____ Signature _____

ADHS Laboratory 128 (10/90)

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED _____
FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: [signature]

PRINT NAME: Patti Lucas

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
32476	MW6W-5A	6-27-94	07:54		H2O	4
32472	MW6W-5B	6-27-94	08:19			4
32477	MW6W-5C	6-27-94	08:45			4
32478	MW6W-5D	6-27-94	09:30			4
32479	MW6W-5E	6-27-94	09:57			4
32473	MW6W-5F	6-27-94	10:55			3
32480	MW6W-6A	6-27-94	11:04			4
32474	MW6W-6B	6-27-94	15:10			3
32481	MW6W-6C	6-28-94	07:47			4
32482	MW6W-6D	6-28-94	08:38			4
					TOTAL NUMBER OF CONTAINERS	39

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
[signature]	Patti Lucas	[signature]	[illegible]	6/28/94 0810	
[signature]	[illegible]	[signature]	Kay Dandy	6-28-94 915	[illegible]

Final Disposal; Date & Time disposed: _____ Signature _____

ADHS Laboratory 128 (10/90)

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED _____
FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: [signature]

PRINT NAME: Amy Tivis

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	COLLECTION Time	COLLECTION Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
39473	MW4A-16	6-20-94	08:34		Ice	3
					TOTAL NUMBER OF CONTAINERS	3

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
[signature]	Amy Tivis	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Kay Dunlap	KAY DUNLAP	6-20-94 0834	Preservation [illegible]

Final Disposal; Date & Time disposed: _____ Signature _____

ADHS Laboratory 128 (10/90)

MCKENZIE LABORATORIES
3711 S. Atlanta Ave.
Phoenix, AZ 85040
(602) 470-0288
FAX (602) 470-0756

Chain of Custody

DATE 8/31/94 PAGE 1 of ___

PROJECT MANAGER: Julie Tove

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, Az 85012

BILL TO: Same

COMPANY: ___

ADDRESS: ___

[signature] 207-4466
SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MV899-1	HNO	PLASTIC	8-31-94	10:14	water	7132
MV897-1	"	"	8-31-94	10:14	"	"
MV898-1	"	"	8-31-94	10:14	"	"
MV896-2	"	"	8-31-94	11:10	water	7131
MV895-2	"	"	8-31-94	11:10	"	"
MV894-2	"	"	8-31-94	11:10	"	"
MV893-3	"	"	8-31-94	11:45	water	7133
MV892-3	"	"	8-31-94	11:45	"	"
MV891-3	"	"	8-31-94	11:45	"	"

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
									X					1
									X					1
									X					1
									X					1
									X					1
									X					1
									X					1
									X					1
									X					1

PROJECT INFORMATION	
PROJECT NO:	
PROJECT NAME:	
P.O. NO.:	
SHIPPED VIA:	
SAMPLE DISPOSAL INSTRUCTIONS*	
☐ McKENZIE ☐ RETURN	

SAMPLE RECEIPT	
TOTAL NO. OF CONTAINERS:	9
CHAIN OF CUSTODY SEALS:	N
RECEIVED INTACT:	Y
TEMPERATURE: AMBIENT / COLD	
ICE: PRESENT / ABSENT	
WET / BLUE	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☑ 1 WEEK

Comments: Please run methods requested on Sequential Report with this group

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature] Time: 11:45	Signature: Time:	Signature: Time:
Printed Name: [illegible] Date: 9-1-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days - Alan has Sequence

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES

Chain of Custody

McKenzie Labs
3725 E Atlanta Ave
Phoenix, AZ 85040
(602) 470-0268
FAX (602) 470-0756

Redmond Inc
14603 N.E. 87th St
Redmond, WA 98053
(206) 885-1664
FAX (206) 883-3495

Vancouver
1521 Burrard St
Vancouver BC V6J 3G8
(604) 734-7276
FAX (604) 000 0000

DATE 8/31/94 PAGE 2 of

PROJECT MANAGER: Patti Tuve

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, Az 85012

BILL TO: SAME

COMPANY:

ADDRESS:

Patti Tuve (602) 207-4476
SAMPLERS: (Signature) PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW 874-1	HCl	Plastic	8/31/94	14:18	WATER	7123
MW 874-4	HNO3	Plastic	8/31/94	14:18	WATER	↓
MW 874-4	Sulfuric	Plastic	8/31/94	14:18	WATER	

ANALYSIS REQUEST

																													NUMBER OF CONTAINERS
Petroleum Hydrocarbons (418.1)																													1
Volatile Organics (502.2)																													1
BLS-181 (418.1/8015)																													1
BTXE (8020)																													
Chlorinated Hydrocarbons (601/8010)																													
Aromatic Hydrocarbons (602/8020)																													
Organochloride Pesticides (608/8080)																													
Chlorinated Herbicides (615/8150)																													
Organophosphate Pesticides (614/8140)																													
Semi-Volatile Organics GC/MS (625/8270)																													
Volatile Organics GC/MS (624/8240)																													
SDWA Primary Standards	X	X	X																										
SDWA Secondary Standards																													
SDWA Volatiles (502.1/503.1)																													
The 13 Priority Pollutant Metals																													
The 8 EP-Tox Metals by TCLP (1311)																													

PROJECT INFORMATION	
PROJECT NO:	
PROJECT NAME:	
P.O. NO.:	
SHIPPED VIA:	
SAMPLE DISPOSAL INSTRUCTIONS*	
☐ McKENZIE ☐ RETURN	

SAMPLE RECEIPT	
TOTAL NO. OF CONTAINERS	3
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND./COLD	
LAB NUMBER	WET ICE PRESENT

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) (RUSH) ☐ 24 ☐ 48 ☐ 72 ☒ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 10:27	Signature: Time:	Signature: Time
Printed Name: Date: Patti Tuve 9/1/94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company: McKENZIE	Company:	McKenzie Laboratories

* Samples will be discarded / returned after 90 days

White Canary McKenzie Labs Pink Originator

McKENZIE LABORATORIES

Chain of Custody

McKenzie Labs
37 Atlanta Ave.
Phoenix, AZ 85040
(602) 470-0288
FAX (602) 470-0756

DATE 11-29-99 PAGE 1 of 3

PROJECT MANAGER: BETH TIME

COMPANY: ADEQ

ADDRESS: 3033 N. Central Ave
Phoenix, AZ 85012

BILL TO:

COMPANY:

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER 602-771-4416 PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW134-01	4°C	VOA	11-29-99	13:02	GW	
2	HCl		11-29-99	13:02		
3	HNO3		11-29-99	13:02		
MW134-02	4°C		11-29-99	15:50		
4	HCl		11-29-99	15:50		
5	HNO3		11-29-99	15:50		
MW134-10	4°C		11-30-99	08:45		
6	HCl		11-30-99	08:45		
7	HNO3		11-30-99	08:45		

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1

PROJECT INFORMATION

PROJECT NO:
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 9
CHAIN OF CUSTODY SEALS: Y
RECEIVED INTACT: Y
TEMPERATURE: AMBIENT / COLD
ICE: PRESENT / ABSENT
WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☑ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

* Samples will be discarded / returned after 90 days

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Beth Time 10:40	Signature: Time:	Signature: Time:
Printed Name: Beth Time Date: 12-2-99	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

White, Canary: McKenzie Labs Pink: Originator

MCKENZIE LABORATORIES
3725 Atlanta Ave.
Pho AZ 85040
(602) 470-0288
FAX (602) 470-0756

Chain of Custody

DATE 11-29-94 PAGE 2 of 3

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central Ave
Phoenix, A. 85012

BILL TO:

COMPANY: ADEQ

ADDRESS: 3033 N. Central, Ph, Az

SAMPLERS: (Signature) FAX NUMBER 207-4148 PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW127-15	4°C	plas	12-1-94	08:45	gw	
MW127-17	4°C	plastic	12-1-94	10:03	gw	
	4°C	"	12-1-94	10:03		
	4°C	"	12-1-94	10:03		
	4°C	glass	12-1-94	10:03		
MW127-18	4°C	plastic	12-1-94	10:57		
	4°C	"	12-1-94	10:57		
	4°C	"	12-1-94	10:57		
	4°C	glass	12-1-94	10:57		

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
	X								X	X				2
									X	X				1
									X	X				1
									X	X				1
	X													2
									X	X				1
									X	X				1
									X	X				1
	X													2

PROJECT INFORMATION

PROJECT NO:
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 12
CHAIN OF CUSTODY SEALS: Y
RECEIVED INTACT: Y
TEMPERATURE: AMBIENT / COLD
ICE: PRESENT / ABSENT
WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☑ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

LABORATORIES

3727 Ilanta Ave.
Phoe AZ 85040
(602) 470-0888
FAX (602) 470-0756

Chain of Custody

PROJECT MANAGER: Dan Tuve

DATE 11-29-94 PAGE 3 of 3

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, Az 85012

BILL TO:

COMPANY: ADEQ

ADDRESS: 3033 N. Central, Phx. Az

Faith Lee — 602-1446

SAMPLERS: (Signature) — FAX NUMBER — PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MV1294-19	HCl	plastic	12-1-94	11:10	gw	
	HNO3		12-1-94	11:10		
	HCl	"	12-1-94	11:10		
	HNO3	"	12-1-94	11:10		
MV1294-20	HCl	plastic	12-1-94	13:55		
	HNO3	"	12-1-94	13:55		
	HCl	"	12-1-94	13:55		
	HNO3	glass	12-1-94	13:55		
MV1294-21	HCl	glass	12-1-94	14:38		

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
									X	X				1
									X	X				1
									X	X				1
	X													1
									X	X				2
									X	X				1
									X	X				1
									X	X				1
	X													2
	X													2

PROJECT INFORMATION

PROJECT NO:

PROJECT NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 12

CHAIN OF CUSTODY SEALS: Y

RECEIVED INTACT: Y

TEMPERATURE: AMBIENT / COLD

ICE: PRESENT / ABSENT

WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Faith Lee — Time: 1640	Signature: — Time:	Signature: — Time:
Printed Name: — Date:	Printed Name: — Date:	Printed Name: — Date:
Company: ADEQ	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.
Signature: — Time: 1640	Signature: — Time:	Signature: — Time:
Printed Name: — Date:	Printed Name: — Date:	Printed Name: — Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 30 days

White, Canary: McKenzie Labs — Pink: Originator

McKENZIE LABORATORIES

McKenzie Labs
3725 Atlanta Ave.
Phoenix AZ 85040
(602) 470-0288
FAX (602) 470-0756

Chain of Custody

DATE 12-2-94 PAGE 4 of 4

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS:

BILL TO:

COMPANY:

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
TRIP BLANK	HCl	glass				

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
	X													2

PROJECT INFORMATION

PROJECT NO:
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 2
CHAIN OF CUSTODY SEALS: Y
RECEIVED INTACT: Y
TEMPERATURE: AMBIENT / COLD
ICE: PRESENT / ABSENT
WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☑ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 10:40	Signature: Time:	Signature: Time:
Printed Name: Patti Tivis Date: 12-2-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time: 11:00	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED _____
FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: [signature]

PRINT NAME: Patti Tuve

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
41298	MV129A-02	11-21-94	13:56	Hillcrest Water	[illegible]	3
41299	MV129A-03	11-29-94	1705			3
41300	MV129A-04	11-29-94	15:07			3
41305	MV129A-05	11-30-94	08:45			1
41306	MV129A-06	11-30-94	09:13			4
41307	MV129A-07	11-30-94	09:39			4
41308	MV129A-08	11-30-94	10:13			4
41309	MV129A-09	11-30-94	10:39			4
41310	MV129A-10	11-30-94	11:49			1
41311	MV129A-12	11-30-94	14:24			1
					TOTAL NUMBER OF CONTAINERS	37

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
[signature]	Patti Tuve	Libby Farris	Libby Farris	12/2/94 11:54am	

Final Disposal; Date & Time disposed: _____ Signature _____

Chain of Custody

FAX (602) 470-0756

DATE 12-6-91 PAGE 1 of 1

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix AZ 85012

BILL TO: SAME

COMPANY:

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER 257-4411

ANALYSIS REQUEST

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
MW-1	4°C		12-4-91	9:40	GW											X	X				1
	4°C		12-4-91	9:40												X	X				1
	4°C		12-4-91	9:40												X	X				1
MW-2	4°C		12-4-91	10:53												X	X				1
	4°C		12-4-91	10:53												X	X				1
	4°C		12-4-91	10:53												X	X				1
MW-3	4°C		12-4-91	12:51												X	X				1
	4°C		12-4-91	12:51												X	X				1
	4°C		12-4-91	12:51												X	X				1

PROJECT INFORMATION

PROJECT NO:

PROJECT NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 9

CHAIN OF CUSTODY SEALS: N/

RECEIVED INTACT: Y

TEMPERATURE: AMBIENT / COLD

ICE: PRESENT / ABSENT

WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES
372' Atlanta Ave.
Pho AZ 85040
(602) 470-0888
FAX (602) 470-0756

Chain of Custody

DATE 12-6-24 PAGE 2 of 2

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 2033 N. [illegible]
Phoenix, Az 85012

BILL TO: SAME

COMPANY:

ADDRESS:

[illegible] 602-[illegible]
SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW24-05	HCl	plastic	12-6-24	15:11	gw	
	HNO3	"	12-6-24	15:11	"	
	H2SO4	"	12-6-24	15:11	"	
	NH4Cl	glass	12-6-24	15:11	"	
Trip Blank	Vial	glass			"	
MW24-10	HCl	plastic	12-6-24	17:09	"	
	HNO3	"	12-6-24	17:09	"	
	H2SO4	"	12-6-24	17:09	"	
MW24-39	HCl	"	12-6-24	16:22	"	

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
	X								X	X				1
									X	X				1
									X	X				1
	X													2
	X													2
									X	X				1
									X	X				1
									X	X				1
									X	X				1

PROJECT INFORMATION

PROJECT NO:
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 11
CHAIN OF CUSTODY SEALS: Y
RECEIVED INTACT: Y
TEMPERATURE: AMBIENT / COLD
ICE: PRESENT / ABSENT
WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time: 0935	Signature: Time:	Signature: Time:
Printed Name: [illegible] Date: 12-6-24	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: [illegible] Time: 0935	Signature: Time:	Signature: Time:
Printed Name: [illegible] Date: 12-6-24	Printed Name: Date:	Printed Name: Date:
Company: [illegible]	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

MCKENZIE LABORATORIES
McKenzie Labs
372 Atlanta Ave.
Pho. ., AZ 85040
(602) 470-0288
FAX (602) 470-0756

Chain of Custody

DATE 12-6-94 PAGE 3 of 4

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, Az 85012

BILL TO:

COMPANY:

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW129-39	HCl	plastic	12-6-94	16:27	gw	
2	HNO3		12-6-94	16:27		
MW129-43	HCl		12-7-94	15:32		
	HNO3		12-7-94	15:32		
			12-7-94	15:32		
MW129-46	HCl		12-7-94	16:30		
2	HNO3		12-7-94	16:30		
			12-7-94	16:30		
MW129-47	HCl		12-8-94			

ANALYSIS REQUEST

| | | |

McKENZIE LABORATORIES
[illegible] Labs
37[illegible] Atlanta Ave.
Phoe[illegible], AZ 85040
(602) 470-0268
FAX (602) 470-0756

Chain of Custody

DATE 12-8-94 PAGE 1 of 6

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central Ave.
Phoenix, AZ 85012

BILL TO: Same

COMPANY:

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
MW1294-4T	4°C	Plastic	12-8-94	07:53	gw											X	X				1
	4°C		12-8-94	07:53																	1
MW1294-4S	4°C		12-8-94	08:38												X	X				1
	4°C		12-8-94	08:38												X	X				1
	4°C		12-8-94	08:38												X	X				1
	4°C	glass	12-8-94	08:38																	1
MW1294-4T	4°C	Plastic	12-8-94	09:13				X													1
	4°C		12-8-94	09:13												X	X				1
	4°C		12-8-94	09:13												X	X				1
	4°C		12-8-94	09:13												X	X				1

ANALYSIS REQUEST

PROJECT INFORMATION

PROJECT NO:

PROJECT NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 12

CHAIN OF CUSTODY SEALS: Y

RECEIVED INTACT: Y

TEMPERATURE: AMBIENT / COLD

ICE: PRESENT / ABSENT

WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☒ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

MCKENZIE LABORATORIES
372 Atlanta Ave.
Phoenix, AZ 85040
(602) 470-0288
FAX (602) 470-0756

Chain of Custody

DATE 12-8-94 PAGE 5 of 6

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, AZ 85012

BILL TO: Same

COMPANY:

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER 207-4467 PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW294-49	HCl	glass	12-5-94	09:13	gw	
MW294-51	HCl	plastic	12-5-94	11:05		
"	NO3	"	12-5-94	11:05		
"	H2SO4	"	12-5-94	11:05		
MW294-54	HCl	"	12-5-94	11:32		
"	NO3	"	12-5-94	11:32		
"	H2SO4	"	12-5-94	11:32		
MW294-55	HCl	"	12-5-94	11:58		
"	NO3	"	12-5-94	11:58		

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
	X													2
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1

PROJECT INFORMATION

PROJECT NO:	
PROJECT NAME:	
P.O. NO.:	
SHIPPED VIA:	
SAMPLE DISPOSAL INSTRUCTIONS*	
☐ McKENZIE ☐ RETURN	

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS:	10
CHAIN OF CUSTODY SEALS:	Y
RECEIVED INTACT:	Y
TEMPERATURE:	AMBIENT / COLD
ICE:	PRESENT / ABSENT
	WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☑ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES
372 Atlanta Ave.
Phoenix, AZ 85040
(602) 470-0288
FAX (602) 470-0756

Chain of Custody

DATE 12-9-91 PAGE 6 of 6

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, Az 85012

BILL TO: Same

COMPANY:

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

ANALYSIS REQUEST

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW12-91-55	HNO3	1 L GLS	12-8-91	11:58	GW	
MW12-91-56	HNO3	1 L GLS	12-8-91	12:38	GW	
7	HNO3	1 L GLS	12-8-91	12:58	GW	
	HNO3	1 L GLS	12-8-91	12:58	GW	

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
									X	X				1
									X	X				1
									X	X				1
									X	X				1

PROJECT INFORMATION

PROJECT NO:

PROJECT NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 4

CHAIN OF CUSTODY SEALS: Y

RECEIVED INTACT: Y

TEMPERATURE: AMBIENT / COLD

ICE: PRESENT / ABSENT

WET BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED 12/7 FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: [signature]

PRINT NAME: Pam Innes

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
41301	MV1294-13	11-30-94	16:38	Mohave Valley	ground water	3
41302	MV1294-14	11-30-94	17:44			3
41303	MV1294-16	12-1-94	09:13			3
41304	MV1294-21	12-1-94	14:38			3
41312	MV1294-22	12-1-94	15:18			4

TOTAL NUMBER OF CONTAINERS 16

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
[signature]	Pam Innes	[signature]	Libby Farris	12/7/94 11:54a.	

Final Disposal; Date & Time disposed: _____ Signature _____

ADHS Laboratory 128 (10/90)

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED: _____ FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: Pat Tuve

PRINT NAME: Pat Tuve

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
C 41342	MV127-23	12-5-94	13:18	Mohave Valley	groundwater	3
C 41343	MV127-24	12-5-94	11:33			3
C 41344	MV127-25	12-5-94	15:11			3
C 41345	MV127-26	12-5-94	16:07			3
C 41346	MV127-27	12-5-94	16:50			3
C 41347	MV127-28	12-6-94	11:49			3
C 41348	MV127-29	12-6-94	12:07			3
C 41349	MV127-33	12-6-94	12:29			3
C 41350	MV127-31	12-6-94	12:40			3
C 41351	MV127-30	12-6-94	12:55			3
					TOTAL NUMBER OF CONTAINERS	30

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
	Pat Tuve		Heard from	12-9-94 0:20	

Final Disposal; Date & Time disposed: _____ Signature _____

DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED _____
FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: [signature]

PRINT NAME: Kim Time

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
C 41352	MW3-94-3	12-6-94	13:05	Wilmot Valley	Ground water	3
C 41353	MW94-37	12-6-94	13:21			3
C 41354	MW94-41	12-6-94	16:18			3
C 41355	MW94-42	12-7-94	09:30			3
C 41356	MW-94-43	12-7-94	10:15			3
C 41357	MW94-44	12-7-94	12:30		Surface water	2

TOTAL NUMBER OF CONTAINERS 17

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
[signature]	Kim Time	[signature]	[illegible]	12-9-94 10:22	

Final Disposal; Date & Time disposed _____ Signature _____

ADHS Laboratory 0/90)

McKENZIE LABORATORIES

McK[illegible]ie Labs
372 [illegible]lanta Ave.
Pho. AZ 85040
(602) 470-0288
FAX (602) 470-0756

Chain of Custody

DATE 12-9-94 PAGE 1 of 1

PROJECT MANAGER: [illegible]

COMPANY: ADEQ

ADDRESS: 3033 N. Central Ave
Phoenix, AZ 85012

BILL TO: ADEQ

COMPANY:

ADDRESS:

[illegible] 602-[illegible]
SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW294-45	4°C	glass	12-7-94	15:52	gw	
MW294-46	4°C		12-7-94	16:30		
MW294-47	4°C		12-8-94	07:53		
MW294-48	4°C		12-8-94	08:38		
MW294-49	4°C		12-8-94	09:13		
MW294-51	4°C		12-8-94	11:05		
MW294-54	4°C		12-8-94	11:32		
MW294-55	4°C		12-8-94	11:58		
MW294-56	4°C		12-8-94	12:53		

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	[illegible]	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)		Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)			SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)								NUMBER OF CONTAINERS
				X	X																				2
				X	X																				2
				X	X																				2
				X	X																				2
				X	X																				2
				X	X																				2
				X	X																				2
				X	X																				2
				X	X																				2

PROJECT INFORMATION

PROJECT NO:
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 17
CHAIN OF CUSTODY SEALS: Y
RECEIVED INTACT: Y
TEMPERATURE: AMBIENT / COLD
ICE: PRESENT / ABSENT
WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: [illegible] Same as Normal
4 C [illegible]

RELINQUISHED BY: 1.
Signature: [illegible] Time: 09:53
Printed Name: [illegible] Date: 12-9-94
Company: ADEQ

RECEIVED BY: 1.
Signature: [illegible] Time: [illegible]
Printed Name: [illegible] Date: [illegible]
Company: McKenzie

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 3.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: 3.
Signature: Time:
Printed Name: Date:
Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

MCKENZIE LABORATORIES
372 Atlanta Ave.
Pho , AZ 85040
(602) 470-0288
FAX (602) 470-0756

Chain of Custody

DATE 12-13-94 PAGE 1 of 2

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central Ave
Phoenix

BILL TO: SAME

COMPANY:

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER 207-4446 PHONE NUMBER

ANALYSIS REQUEST

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW294-58	HCl	plas	12-12-94	15:35	g.w	
			12-12-94	15:35		
			12-12-94	15:35		
MW294-59			12-12-94	16:10		
			12-12-94	16:10		
			12-12-94	16:10		
MW294-60			12-12-94	17:19		
trip blank			12-12-94			
MW294-61			12-12-94	18:05		

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)			Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)		Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)			SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)									NUMBER OF CONTAINERS
														X	X												1
														X	X												1
														X	X												1
														X	X												1
														X	X												1
														X	X												1
	X																										3
	X																										
	X																										3

PROJECT INFORMATION

PROJECT NO:

PROJECT NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 12

CHAIN OF CUSTODY SEALS: Y

RECEIVED INTACT: Y

TEMPERATURE: AMBIENT / COLD

ICE: PRESENT / ABSENT

WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments: AUTHORIZATION FOR 24 HR TAT GIVEN BY [illegible] 12-13-94

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 9:45	Signature: Time:	Signature: Time:
Printed Name: Date: Terri Lucas 12-13-94	Printed Name: Date:	Printed Name: Date:
Company: ADEQ	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

NOTES: 1) 3 Signature Types

White, Canary: McKenzie Labs Pink, Original

LABORATORIES

Chain of Custody

3725 Atlanta Ave.
Phoenix, AZ 85040
(602) ...-0200
FAX (602) 470-0756

DATE 12-12-94 PAGE 2 of ...

PROJECT MANAGER:

COMPANY: ADEQ

ADDRESS: 3033 N. Central
Phoenix, AZ 85012

BILL TO: SAME

COMPANY:

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MV12.94-L1	HCl	plastic	12-12-94	18:25	gw	
	HNO3		12-12-94	18:25		
	H2SO4		12-12-94	18:25		
MV12.94-L2	HCl	glass	12-12-94	17:33		
MV12.94-L3	HCl		12-13-94	08:10		
MV12.94-L4	HCl		12-13-94	08:46		

ANALYSIS REQUEST

	Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
MV12.94-L1		X								X	X				4
MV12.94-L2		X								X	X				2
MV12.94-L3		X								X	X				1
MV12.94-L4		X								X	X				1

PROJECT INFORMATION

PROJECT NO:

PROJECT NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE DISPOSAL INSTRUCTIONS*

☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS:

CHAIN OF CUSTODY SEALS:

RECEIVED INTACT:

TEMPERATURE: AMBIENT / COLD

ICE: PRESENT / ABSENT

WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Origina...

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED DEC 9 10 15 AM '94
FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: Patti Tuve

PRINT NAME: Patti Tuve

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
C 41339	MV1294-50	12-8-94	09:52	Mohave Valley	groundwater	4
C 41340	MV1294-52	12-8-94	10:36			4
C 41341	MV1294-53	12-8-94	11:18			4
						1
						1
						1
					TOTAL NUMBER OF CONTAINERS	12

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
Patti Tuve	Patti Tuve		Merry Ellenbaum	12-9-94 / 10:20	

Final Disposal; Date & Time disposed: _____ Signature _____

ADHS-Laboratory 128 (10/90)

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED _____
FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: Patti Tuttle

PRINT NAME: Patti Tuttle

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
C 41361	MV1294-SW	12-13-94	13:06	Mohave Valley	ground water	4
C 41362	MV1294-GW	12-13-94	10:13			4
C 41363	MV1294-GW	12-13-94	11:27			4
C 41364	MV1294-GW	12-13-94	12:18			4
C 41365	MV1294-GW	12-13-94	14:48			4
C 41366	MV1294-GW	12-13-94	15:59			4
					TOTAL NUMBER OF CONTAINERS	24

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
Patti Tuttle	Patti Tuttle	Isaac Robert	ISAAC ROBERT	12-14-94 09:30	

Final Disposal; Date & Time disposed: _____ Signature _____

ADHS Laboratory 128 (10/90)

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED _____
FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: Patti Tivis

PRINT NAME: Patti Tivis

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	Time	Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
41367	MV1294-6	12-12-94	17:19	Wellton Valley	groundwater	3
41368	MV1294-6	12-12-94	17:33			3
41369	MV1294-6	12-13-94	08:15			3
41370	MV1294-6	12-13-94	08:46			3
41371	MV1294-6	12-13-94	12:51			3

TOTAL NUMBER OF CONTAINERS 15

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
Patti Tivis	Patti Tivis	Isaac Robert	ISAAC ROBERT	12-14-94 07:35	

Final Disposal; Date & Time disposed: _____ Signature _____

ADHS Laboratory 128 (10/90)

MCKENZIE LABORATORIES
372 Atlanta Ave.
Phoenix, AZ 85040
(602) 470-0288
FAX (602) 470-0756

Chain of Custody

DATE 2-7 PAGE 1 of 2

PROJECT MANAGER:

COMPANY: ATEC

ADDRESS: 3033 N. Central
Phoenix, AZ 85012

BILL TO: SAME

COMPANY:

ADDRESS:

SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
MW23-02	HCl	glass	2-7-96	14:01	gw	
MW23-03	HCl	"				
MW23-01	HCl	glass	2-7-96	09:02	"	
"	HCl	"	"	09:05	"	
"	HCl	"	"	9:05	"	
MW23-06	HCl	"	2-7-96	10:33	"	
"	HCl	"	"	10:33	"	
"	HCl	"	"	10:33	"	
MW23-07	HCl	2	2-7-96	11:18	"	

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1 / 418.1 AZ)	BTXE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	Organochlorine Pesticides (608/8080)	Chlorinated Herbicides (615/8150)	Organophosphate Pesticides (614/8140)	Semi-Volatile Organics GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	SDWA Primary Standards	SDWA Secondary Standards	SDWA Volatiles (502.1/503.1/502.2)	The 13 Priority Pollutant Metals	The 8 TC Metals by TCLP (1311)	NUMBER OF CONTAINERS
	X								X	X				2
	X													2
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1
									X	X				1

PROJECT INFORMATION

PROJECT NO:
PROJECT NAME:
P.O. NO.:
SHIPPED VIA:
SAMPLE DISPOSAL INSTRUCTIONS*
☐ McKENZIE ☐ RETURN

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS: 11
CHAIN OF CUSTODY SEALS: Y
RECEIVED INTACT: Y
TEMPERATURE: AMBIENT / COLD
ICE: PRESENT / ABSENT
WET / BLUE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS ☐

TAT: (NORMAL) ☐ (RUSH) ☐ 24 ☐ 48 ☐ 72 ☐ 1 WEEK

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company: McKenzie Labs

* Samples will be discarded / returned after 90 days

White, Canary: McKenzie Labs Pink: Originator

McKENZIE LABORATORIES
McKenzie Labs
372[illegible] Atlanta Ave.
Pho[illegible] AZ 85040
(602) [illegible]0-0288
FAX (602) 470-0756

Chain of Custody

DATE [illegible] PAGE ____ of ____

PROJECT MANAGER:

COMPANY: [illegible]

ADDRESS: [illegible]

BILL TO: [illegible]

COMPANY: ____

ADDRESS: ____

SAMPLERS: (Signature) FAX NUMBER PHONE NUMBER

ANALYSIS REQUEST

SAMPLE ID	PRES.	TYPE OF CONTAINER	DATE	TIME	MATRIX	LAB ID
[illegible]	[illegible]	[illegible]	[illegible]	11:18	[illegible]	
	[illegible]		[illegible]	11:18		
[illegible]	[illegible]		2-7-96	11:36		
	[illegible]		[illegible]	11:36		
	[illegible]		[illegible]	11:36		
[illegible]	[illegible]	[illegible]				

| Analysis | | | |

STATE OF ARIZONA
DEPARTMENT OF HEALTH SERVICES
STATE LABORATORY

CHAIN OF CUSTODY RECORD

DATE LOGGED _____
FOR LABORATORY USE ONLY

AGENCY NAME: ADEQ

SAMPLER'S SIGNATURE: Patti Tavares

PRINT NAME: Patti Tavares

FOR SAMPLER'S USE ONLY

SAMPLES OFFERED ☐ SAMPLES REFUSED ☐

SAMPLES OFFERED TO/REFUSED BY:

Signature _____ Title _____ Date _____

STATE LAB NUMBER	SAMPLE NUMBER	COLLECTION Date	COLLECTION Time	COLLECTION Location	SAMPLE DESCRIPTION AND COMMENTS	NUMBER OF CONTAINERS
41852	MW-1	2-6-95	14:00	Mohave Valley	ground water	3
41853	MW-2	2-7-95	14:01			3
41854	MW-3	2-7-95	14:30			3
41855	MW-4	2-7-95	09:08			3
					TOTAL NUMBER OF CONTAINERS	12

Relinquished By: (Signature)	(Print name)	Received By: (Signature)	(Print name)	Date/Time	Comments
Patti Tavares	Patti Tavares	Isaac Robert	ISAAC ROBERT	2-8-95 11:30	

Final Disposal; Date & Time disposed: _____ Signature _____