POOR LEGIBILITY

ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ
DUE TO THE QUALITY OF THE ORIGINAL

SFUND RECORDS CTR
24883

S 950288
105.0181
EN

SEMIANNUAL GROUNDWATER MONITORING REPORT

THE MONADNOCK COMPANY
18301 ARENTH AVENUE
CITY OF INDUSTRY, CALIFORNIA

JUNE 1995

TABLE 3-1

FIELD PARAMETERS AT COMPLETION OF PURGING

WELL NUMBER	DATE	pH	SPECIFIC CONDUCTIVITY (µmhos/cm)	TEMPERATURE (°F)
MW-1	3-9-95	6.88	1447	71.2
MW-2	3-9-95	7.00	1651	72.5
MW-3	3-13-95	6.78	1407	69.5
MW-4	3-9-95	7.02	1343	71.5
MW-7	3-9-95	7.24	1253	72.2
MW-8	3-13-95	6.80	1352	72.0
MW-11	3-13-95	6.95	1157	71.5

TABLE 3-2

HISTORIC WATER-LEVEL ELEVATION MEASUREMENTS

Well Number	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation[a] (feet, MSL)	Water Surface Elevation[a] (feet, MSL)
MW-1	Sep 94	32.27	412.68	380.41
	Aug 94	32.49		380.19
	Mar 95	31.82		380.86
MW-2	Sep 94	30.25	408.01	377.76
	Aug 94	30.55		377.46
	Mar 95	29.73		378.28
MW-3	Sep 94	30.21	408.52	378.31
	Aug 94	30.74		377.78
	Mar 95	29.86		378.66
MW-4	Sep 94	32.80	412.95	380.15
	Aug 94	32.99		379.96
	Mar 95	32.28		380.67
MW-7	Sep 94	31.35	409.16	377.81
	Aug 94	31.71		377.45
	Mar 95	31.03		378.13
MW-8	Sep 94	31.25	409.00	377.75
	Aug 94	31.54		377.46
	Mar 95	30.95		378.05
MW-11	Sep 94	31.59	408.93	377.34
	Aug 94	32.07		376.86
	Mar 95	31.26		377.67

[a] Elevations relative to mean sea level (MSL)

TABLE 3-3

HISTORIC GROUNDWATER ANALYTICAL RESULTS

WELL NUMBER/ SAMPLE DATES	1,1-DCE (µg/l)	1,1-DCA (µg/l)	CFM (µg/l)	1,2-DCA (µg/l)	1,1,1-TCA (µg/l)	TCE (µg/l)	1,1,2-TCA (µg/l)	PCE (µg/l)	CADMIUM (µg/l)	CHROMIUM (µg/l)	CYANIDE (mg/l)
DRINKING WATER STANDARD	6	5	N.E.	0.5	200	5	32	5	10	50	N.E.
MW-1/											
JUL 86	N.A.	N.A.	N.A.	N.A.	<25	<25	N.A.	<25	N.A.	N.A.	N.A.
SEP 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NOV 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FEB 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MAR 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
SEP 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FEB 88	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
JAN 89	N.A.	N.A.	N.A.	N.A.	ND	ND	N.A.	ND	N.A.	N.A.	N.A.
JUN 89	ND	N.A.	N.A.	N.A.	ND	ND	N.A.	ND	N.A.	N.A.	N.A.
JAN 90	ND	N.A.	N.A.	N.A.	ND	ND	N.A.	1.3	N.A.	N.A.	N.A.
JUN 94	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	N.A.	N.A.	N.A.
AUG 94	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	7.7	ND(.01)
MAR 95	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(10)	ND(.01)
MW-2/											
JUL 86	N.A.	N.A.	N.A.	N.A.	380	710	N.A.	310	N.A.	N.A.	N.A.
SEP 86	N.A.	N.A.	N.A.	N.A.	180	560	N.A.	600	N.A.	N.A.	N.A.
NOV 86	N.A.	N.A.	N.A.	N.A.	350	710	N.A.	770	N.A.	N.A.	N.A.
FEB 87	N.A.	N.A.	N.A.	N.A.	77	620	N.A.	190	N.A.	N.A.	N.A.
MAR 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
SEP 87	N.A.	N.A.	N.A.	N.A.	12	182	N.A.	102	N.A.	N.A.	N.A.
FEB 88	N.A.	N.A.	N.A.	N.A.	25	102	N.A.	78	N.A.	N.A.	N.A.
JAN 89	N.A.	N.A.	N.A.	N.A.	ND	120	N.A.	70	N.A.	N.A.	N.A.
JUN 89	180	N.A.	N.A.	N.A.	ND	270	N.A.	320	N.A.	N.A.	N.A.
JAN 90	840	N.A.	N.A.	N.A.	7	460	N.A.	410	N.A.	N.A.	N.A.
JUN 94	120	10	2.4	3.3	ND(1)	590	21	130	N.A.	N.A.	N.A.
AUG 94	160	8.6	1.3	3.4	ND(1)	390	19	100	ND(1)	162	0.57
MAR 95	176	8.3	2.5	4.1	ND(1)	330	17.5	102	ND(5)	206	ND(.01)
MW-3/											
JUL 86	N.A.	N.A.	N.A.	N.A.	<5	<5	N.A.	<5	N.A.	N.A.	N.A.
SEP 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NOV 86	N.A.	N.A.	N.A.	N.A.	6	4	N.A.	100	N.A.	N.A.	N.A.
FEB 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MAR 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
SEP 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FEB 88	N.A.	N.A.	N.A.	N.A.	2	2.6	N.A.	6.2	N.A.	N.A.	N.A.
JAN 89	N.A.	N.A.	N.A.	N.A.	ND	ND	N.A.	ND	N.A.	N.A.	N.A.
JUN 89	ND	N.A.	N.A.	N.A.	1	2	N.A.	6	N.A.	N.A.	N.A.
JAN 90	ND	N.A.	N.A.	N.A.	ND	2	N.A.	ND	N.A.	N.A.	N.A.
JUN 94	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	N.A.	N.A.	N.A.
AUG 94	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.4	14.3	ND(.01)
MAR 95	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	23.9	ND(.01)

TABLE 3-3 (Continued)

HISTORIC GROUNDWATER ANALYTICAL RESULTS

WELL NUMBER/ SAMPLE DATES	1,1-DCE (µg/l)	1,1-DCA (µg/l)	CFM (µg/l)	1,2-DCA (µg/l)	1,1,1-TCA (µg/l)	TCE (µg/l)	1,1,2-TCA (µg/l)	PCE (µg/l)	CADMIUM (µg/l)	CHROMIUM (µg/l)	CYANIDE (mg/l)
DRINKING WATER STANDARD	6	5	N.E.	0.5	200	5	32	5	10	50	N.E.
MW-4/											
JUL 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
SEP 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NOV 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FEB 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MAR 87	N.A.	N.A.	N.A.	N.A.	0.5	1.0	N.A.	1.6	N.A.	N.A.	N.A.
SEP 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FEB 88	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
JAN 89	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
JUN 89	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
JAN 90	ND	N.A.	N.A.	N.A.	ND	ND	N.A.	1.9	N.A.	N.A.	N.A.
JUN 94	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	N.A.	N.A.	N.A.
AUG 94	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	6.4	ND(.01)
MAR 95	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(10)	2.67
MW-7											
JUL 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
SEP 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NOV 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FEB 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A	N.A.
MAR 87	N.A.	N.A.	N.A.	N.A.	48	456	N.A.	81	N.A.	N.A.	N.A.
SEP 87	N.A.	N.A.	N.A.	N.A.	56	200	N.A.	93	N.A.	N.A.	N.A.
FEB 88	N.A.	N.A.	N.A.	N.A.	8.2	152	N.A.	74	N.A.	N.A.	N.A.
JAN 89	N.A.	N.A.	N.A.	N.A.	ND	200	N.A.	150	N.A.	N.A.	N.A.
JUN 89	42	N.A.	N.A.	N.A.	50	66	N.A.	60	N.A.	N.A.	N.A.
JAN 90	440	N.A.	N.A.	N.A.	1.6	400	N.A.	160	N.A.	N.A.	N.A.
JUN 94	40	ND(1)	1.8	ND(1)	ND(1)	280	2.8	42	N.A.	N.A.	N.A.
AUG 94	140	6.2	2.4	1.7	ND(1)	310	17	60	1.3	115	0.76
MAR 95	66	ND(1)	ND(1)	ND(1)	ND(1)	145	4.5	28	ND(5)	49.6	0.14
MW-8/											
JUL 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
SEP 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NOV 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FEB 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MAR 87	N.A.	N.A.	N.A.	N.A.	32	180	N.A.	110	N.A.	N.A.	N.A.
SEP 87	N.A.	N.A.	N.A.	N.A.	3	47	N.A.	27	N.A.	N.A.	N.A.
FEB 88	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
JAN 89	N.A.	N.A.	N.A.	N.A.	ND	90	N.A.	80	N.A.	N.A.	N.A.
JUN 89	180	N.A.	N.A.	N.A.	30	400	N.A.	320	N.A.	N.A.	N.A.
JAN 90	100	N.A.	N.A.	N.A.	ND	160	N.A.	56	N.A.	N.A.	N.A.
JUN 94	16	ND(1)	ND(1)	ND(1)	ND(1)	34	ND(1)	6.8	N.A.	N.A.	N.A.
AUG 94	ND(1)	9.4	ND(1)	ND(1)	ND(1)	22	ND(1)	5.5	4.8	135	ND(.01)
MAR 95	11.7	ND(1)	ND(1)	ND(1)	ND(1)	18.8	ND(1)	3.3	ND(5)	20.4	ND(.01)

TABLE 3-3 (Continued)

HISTORIC GROUNDWATER ANALYTICAL RESULTS

WELL NUMBER/ SAMPLE DATES	1,1-DCE (µg/l)	1,1-DCA (µg/l)	CFM (µg/l)	1,2-DCA (µg/l)	1,1,1-TCA (µg/l)	TCE (µg/l)	1,1,2-TCA (µg/l)	PCE (µg/l)	CADMIUM (µg/l)	CHROMIUM (µg/l)	CYANIDE (mg/l)
DRINKING WATER STANDARD	6	5	N.E.	0.5	200	5	32	5	10	50	N.E.
MW-11/											
JUL 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
SEP 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NOV 86	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FEB 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MAR 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
SEP 87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FEB 88	N.A.	N.A.	N.A.	N.A.	ND	26	N.A.	ND	N.A.	N.A.	N.A.
JAN 89	N.A.	N.A.	N.A.	N.A.	ND	20	N.A.	200	N.A.	N.A.	N.A.
JUN 89	50	N.A.	N.A.	N.A.	ND	270	N.A.	10	N.A.	N.A.	N.A.
JAN 90	231	N.A.	N.A.	N.A.	ND	50	N.A.	5.5	N.A.	N.A.	N.A.
JUN 94	ND(1)	ND(1)	1.8	ND(1)	ND(1)	86	ND(1)	7	N.A.	N.A.	N.A.
AUG 94	ND(1)	16	ND(1)	ND(1)	ND(1)	49	ND(1)	4.7	ND(1)	13.0	ND(.01)
MAR 95	20.3	ND(1)	ND(1)	ND(1)	ND(1)	59.6	ND(1)	4.1	ND(5)	13.1	ND(.01)

NOTES:

(1) 1,1-DCE - 1,1-dichloroethene
1,1-DCA - 1,1-dichloroethane
CFM - Chloroform
1,2-DCA - 1,2-dichloroethane
1,1,1-TCA - 1,1,1-trichloroethane
TCE - Trichloroethene
1,1,2-TCA - 1,1,2-trichloroethane
PCE - Tetrachloroethene

(2) Drinking water standards are Maximum Contaminant Levels (MCLs) as established by the United States Environmental Protection Agency or Drinking Water Action Levels as established by the California Environmental Protection Agency.

(3) N.E. - Drinking water standard (MCL or Action Level) has not been established.

(4) ND( ) - Not detected at the concentration shown in parentheses.

(5) N.A. - Analyte was not analyzed.

TABLE 4-1

QUALITY ASSURANCE/QUALITY CONTROL SAMPLES
MARCH 1995 COMPLIANCE MONITORING

Sample Type	Analysis Date	Description
Field QA/QC Samples		
Equipment Blank		
Rinsate	3/23/95	Source water for equipment decontamination, collected after pouring through cleaned bailer following sampling of well MW-2 (3/9/95).
Laboratory QA/QC Samples		
Trip Blank		
Trip Blank C050-05	3/23/95	Laboratory water blank that accompanies sample vials into the field (remains unopened) and is analyzed in same manner as the monitor well water samples.
Duplicate Samples		
MW-11-ABC	3/14/95	Duplicate sample that is analyzed in the same manner as the monitor well sample.
MW-11-ABC	3/16/95	
Method Blanks		
HBLK01 95C050	3/23/95	Laboratory water blank that undergoes same laboratory preparation procedures as the monitor well water samples.
IBLK01 95C050	3/17/95	
WBLK01 95C050	3/14/95	
HBLK01 95C062	3/27/95	
IBLK01 95C062	3/21/95	
WBLK01 95C062	3/16/95	
Matrix Spike Samples		
SP8	3/23/95	Matrix Spike (MS) is a monitor well sample which is "spiked" with solution of known concentration and then analyzed in same manner as the "unspiked" well samples. Matrix spike duplicate is a second spiked sample prepared from same sample aliquot as the matrix spike sample.
MHA-1	3/17/95	
S395-01	3/27/95	
MW-11-ABC	3/21/95	

TABLE 4-1 (Continued)

QUALITY ASSURANCE/QUALITY CONTROL SAMPLES
MARCH 1995 COMPLIANCE MONITORING

Sample Type	Analysis Date	Description
Laboratory Control Samples		
LCS1 95C050 CVLCS12	3/23/95	Prepared solution of known concentration that the laboratory uses as an equipment calibration check.
LCS1 95C050 C048-L1W	3/17/95	
LCS1 95C050 C048-L2W	3/17/95	
LCS1 95C050 C050-L1W	3/14/95	
LCS1 95C062 CVLCS14	3/27/95	
LCS1 95C062 C062-L1W	3/21/95	
LCS1 95C062 C062-L1W	3/16/95	

TABLE 4-2

QUALITY ASSURANCE/QUALITY CONTROL SAMPLE RESULTS
MARCH 1995 COMPLIANCE MONITORING

Sample Type		Results
Field QA/QC Samples		
Equipment Blank	Parameter	Concentration
Rinsate	EPA601	ND (1)[1]
Laboratory QA/QC Samples		
Trip Blank	Parameter	Concentration
Trip Blank C050-05	EPA 601	ND (1)
Method Blanks		
HBLK01 95C050	EPA 601	ND (1)
IBLK01 95C050	EPA 3005/6010	ND (1)
WBLK01 95C050	EPA 9010	ND (1)
HBLK01 95C062	EPA 601	ND (1)
IBLK01 95C062	EPA3005/6010	ND (1)
WBLK01 95C062	EPA 9010	ND (1)

Duplicate	Parameter	Sample	Sample Duplicate	RPD
MW-1-ABC	Cyanide	ND	ND	0
MW-11-ABC		ND	ND	0
MW-11-ABC	Cadmium	ND	ND	0
	Chromium	13.1	ND	200

Spike Samples	Parameters	Percent Recovery (S/SD)	RPD[2]
SP-8 (MS)/SP-8 (MSD)	1,1-DCE	107/107	0%
	TCE	97/103	7%
	2-CT	103/110	6%

TABLE 4-2 (Continued)

QUALITY ASSURANCE/QUALITY CONTROL SAMPLE RESULTS
MARCH 1995 COMPLIANCE MONITORING

Sample Type		Results	
Spike Samples	Parameters	Percent Recovery (S/SD)	RPD[2]
MHA1 (MS)*	Cadmium	108/n.a.	n.a.
	Chromium	112/n.a.	n.a.
S395-01 (MS)/S395-01 (MSD)	1,1-DCE	117/120	3%
	TCE	107/137	25%
	Chlorobenzene	103/100	3%
MW-11-ABC (MS)*	Cadmium	110/n.a.	n.a.
	Chromium	110/n.a.	n.a.

Laboratory Control Samples	Parameter	LCS Results	LCS True Value	Percent Recovery
LCS1 95C050 CVLCS12	1,1-DCE	36	30	120
	TCE	37	30	123
	2-CT	40	30	133
LCS1 95C050 C048-L1W	Cadmium	1010	1000	101
	Chromium	1070	1000	107
LCS1 95C050 C048-L2W	Cadmium	1000	1000	100
	Chromium	1060	1000	106
LCS1 05C050 C050-L1W	Cyanide	0.055	0.05	110
LCS1 95C062 CVLCS14	1,1-DCE	34	30	113
	TCE	32	30	107
	Chlorobenzene	31	30	103
LCS1 95C062 C062-L1W	Cadmium	1060	1000	106
	Chromium	1130	1000	113
LCS1 95C062 C062-L1W	Cyanide	0.11	0.10	110

1 - ND (1) indicates not detected at laboratory detection limit of 1 µg/l

2 - Relative percent difference calculated as:

$$\frac{\text{(Sample value - duplicate value)}}{\text{(Sample value + duplicate value)/2}} \times 100$$

2-CT - 2-chlorotoluene

* - No spike duplicate was analyzed

MS - Matrix Spike

MSD - Matrix Spike Duplicate

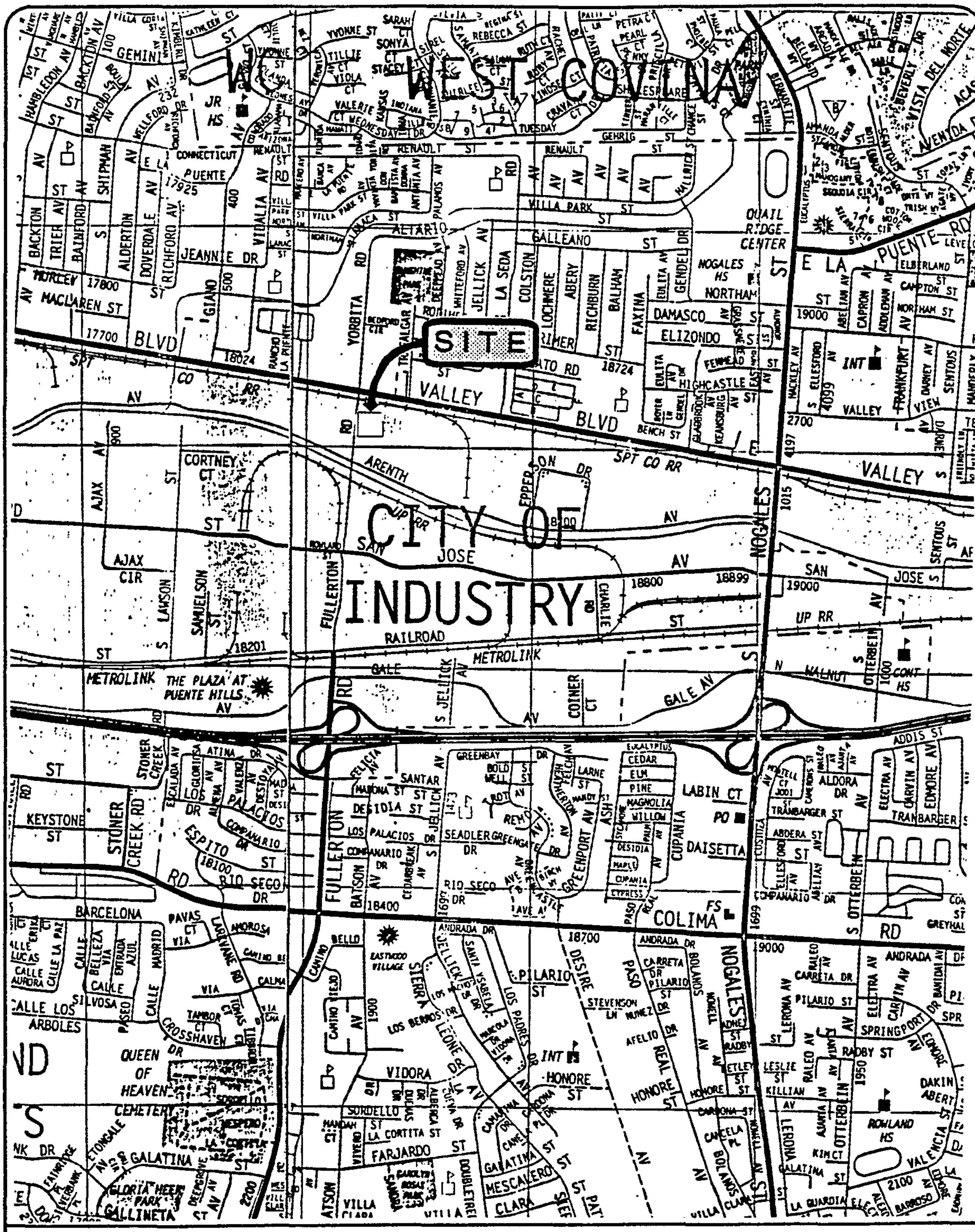

Figure 1-1. Site Location Map

WATER SAMPLE LOG

Project Name: MONADNOCK Date: 3-9-95
Well No. MW-1 Location: ON-SITE Collected by: BW

Well Purging Method: 3.5" PVC BAILER
Total Depth: 47.40 Height of Water Column: 15.57
Decon. Method: 1 WASH / 3 RINSE
Casing volumes to be purged: 2" (0.16 gal./ft.) 4" (0.65 gal./ft.) 6" (1.47 gal./ft.)

3 casing vol. x .65 gal./ft. x 15.57 ft = 30.36 gal.

Time	W.L. (ft.)	Purged (gallons)	Temp °F	mΩ	pH	Notes
0808	31.83	00				
0822		10	71.6	1376	6.71	H2O CLOUDY BROWN
0825		15	71.6	1430	6.74	" " "
0829		20	71.5	1473	6.78	" " "
0833		25	71.5	1422	6.82	" " "
0835		28	+	+	+	BAILED DRY
0840		31	71.2	1447	6.88	H2O CLOUDY BROWN

Total Purged (gallons): 31.0 No. of Casing Volumes: 3
Well Sampling Method: 1.5" TEFFLON BAILER
Decon. Method: 1 WASH / 3 RINSE

Sample Container	Sample Number

Observations/Notes/Calibration record: PH METER ZEROED TO 7.0, SPANNED TO 10.0.

GRASS / WEEDS PRESENT @ BOTTOM OF WELL.

WATER SAMPLE LOG

Project Name: MONADNOCK Date: 3-9-95
Well No. MW-2 Location: ON-SITE Collected by: BW

Well Purging Method: 3.5" PVC BAILER
Total Depth: 44.40 Height of Water Column: 14.59
Decon. Method: 1 WASH / 3 RINSE
Casing volumes to be purged: 2" (0.16 gal./ft.) 4" (0.65 gal./ft.) 6" (1.47 gal./ft.)

3 casing vol. x .65 gal./ft. x 14.59 ft = 28.45 gal.

Time	W.L. (ft.)	Purged (gallons)	Temp °F	mΩ	pH	Notes
1046	29.81	00				
1058		10	72.7	1748	7.12	H2O CLOUDY BROWN
1103		15	72.9	1686	6.98	" " "
1106		20	72.0	1637	6.97	" " "
1109		22	+	+	+	BAILED DRY
1115		25	72.2	1692	6.99	H2O CLOUDY BROWN
1118		29	72.5	1651	7.00	" " "

Total Purged (gallons): 29.0 No. of Casing Volumes: 3
Well Sampling Method: 1.5" TEFFLON BAILER
Decon. Method: 1 WASH / 3 RINSE

Sample Container	Sample Number

Observations/Notes/Calibration record:

WATER SAMPLE LOG

Project Name: MONADNOCK Date: 3-13-95
Well No. MW-3 Location: OFF-SITE Collected by: BW

Well Purging Method: 3.5" PVC BAILER
Total Depth: 45.45 Height of Water Column: 15.59
Decon. Method: 1 WASH / 3 RINSE
Casing volumes to be purged: 2" (0.16 gal./ft.) 4" (0.65 gal./ft.) 6" (1.47 gal./ft.)

3 casing vol. x .65 gal./ft. x 15.59 ft = 30.40 gal.

Time	W.L. (ft.)	Purged (gallons)	Temp °F	mΩ	pH	Notes
1051	29.86	00				
1110		10	71.0	1465	6.84	H2O CLOUDY BROWN
1114		15	70.8	1452	6.81	" " "
1117		17	+	+	+	WELL BAILED DRY
1124		20	70.3	1422	6.84	H2O MUDDY BROWN / BAILED DRY
1130		22	+	+	+	WELL BAILED DRY
1140		25	70.0	1416	6.86	H2O MUDDY BROWN / BAILED DRY
1159		31	69.5	1407	6.78	H2O MUDDY BROWN

Total Purged (gallons): 31.0 No. of Casing Volumes: 3
Well Sampling Method: 1.5" TEFLON BAILER
Decon. Method: 1 WASH / 3 RINSE

Sample Container	Sample Number

Observations/Notes/Calibration record:

WATER SAMPLE LOG

Project Name: Menadnock Date: 3-9-95
Well No. MW-4 Location: on-site Collected by: BW

Well Purging Method: 3.5" PVC Bailer
Total Depth: 47.53 Height of Water Column: 15.18
Decon. Method: 1 wash / 3 Rinse
Casing volumes to be purged: 2" (0.16 gal./ft.) 4" (0.65 gal./ft.) 6" (1.47 gal./ft.)

3 casing vol. x .65 gal./ft. x 15.18 ft = 29.60 gal.

Time	W.L. (ft.)	Purged (gallons)	Temp °F	mΩ	pH	Notes
0854	32.35	00				
0909		10	71.3	1371	6.97	H2O Muddy Brown
0913		15	71.2	1361	6.99	" " "
0915		17	+	+	+	Bailed Dry
0930		20	70.5	1373	7.02	H2O Muddy Brown
0934		25	71.1	1398	7.00	" " "
0937		30	71.5	1343	7.02	" " "

Total Purged (gallons): 30.0 No. of Casing Volumes: 3
Well Sampling Method: 1.5" Teflon Bailer
Decon. Method: 1 wash / 3 Rinse

Sample Container	Sample Number

Observations/Notes/Calibration record: Grass / weeds present within well casing.

WATER SAMPLE LOG

Project Name: MONADNOCK Date: 3-9-95
Well No. MW-7 Location: OFF-SITE Collected by: B W

Well Purging Method: 3.5" PVC BAILER
Total Depth: 56.45 Height of Water Column: 25.39
Decon. Method: 1 WASH / 3 RINSE
Casing volumes to be purged: 2" (0.16 gal./ft.) 4" (0.65 gal./ft.) 6" (1.47 gal./ft.)

3 casing vol. x .65 gal./ft. x 25.39 ft = 49.51 gal.

Time	W.L. (ft.)	Purged (gallons)	Temp °F	mΩ	pH	Notes
0955	31.06	00				
1012		25	73.3	1302	7.91	H2O MUDDY BROWN
1016		30	72.7	1280	7.40	" " "
1020		35	72.7	1285	7.33	" " "
1022		40	72.4	1259	7.22	" " "
1026		45	72.3	1251	7.28	" " "
1030		50	72.2	1253	7.24	" " "

Total Purged (gallons): 50.0 No. of Casing Volumes: 3
Well Sampling Method: 1.5" TEFFLON BAILER
Decon. Method: 1 WASH / 3 RINSE

Sample Container	Sample Number

Observations/Notes/Calibration record:

WATER SAMPLE LOG

Project Name: MONADNOCK Date: 3-13-95
Well No. MW-8 Location: ON-SITE Collected by: BW

Well Purging Method: 3.5" PVC BAILER
Total Depth: 51.80 Height of Water Column: 20.85
Decon. Method: 1 WASH / 3 RINSE
Casing volumes to be purged: 2" (0.16 gal./ft.) 4" (0.65 gal./ft.) 6" (1.47 gal./ft.)

3 casing vol. x .65 gal./ft. x 20.85 ft = 40.65 gal.

Time	W.L. (ft.)	Purged (gallons)	Temp °F	mΩ	pH	Notes
1010	30.95	00				
1025		20	73.1	1324	6.85	H_2O CLOUDY BROWN
1029		25	72.3	1318	6.82	" " "
1031		30	72.7	1340	6.82	" " "
1035		35	72.4	1368	6.79	" " "
1039		41	72.0	1352	6.80	" " "

Total Purged (gallons): 41.0 No. of Casing Volumes: 3
Well Sampling Method: 1.5" TEFFLON BAILER
Decon. Method: 1 WASH / 3 RINSE

Sample Container	Sample Number

Observations/Notes/Calibration record:

WATER SAMPLE LOG

Project Name: MONADNOCK Date: 3-13-95
Well No. MW-11 Location: ON-SITE Collected by: BW

Well Purging Method: 3.5" PVC BAILER
Total Depth: 97.35 Height of Water Column: 66.09
Decon. Method: 1 WASH / 3 RINSE
Casing volumes to be purged: 2" (0.16 gal./ft.) 4" (0.65 gal./ft.) 6" (1.47 gal./ft.)

3 casing vol. x .65 gal./ft. x 66.09 ft = 128.8 gal.

Time	W.L. (ft.)	Purged (gallons)	Temp °F	mΩ	pH	Notes
0845	31.26	00				
0921		50	68.6	1112	6.99	H2O CLOUDY BROWN
0940		100	69.1	1129	6.96	" " "
0944		110	70.7	1148	6.96	" " "
0947		115	70.8	1150	6.97	" " "
0950		120	71.3	1153	6.96	" " "
0953		125	71.3	1156	6.96	" " "
0956		130	71.5	1157	6.95	" " "

Total Purged (gallons): 130.0 No. of Casing Volumes: 3
Well Sampling Method: 1.5" TEFLON BAILER
Decon. Method: 1 WASH / 3 RINSE

Sample Container	Sample Number

Observations/Notes/Calibration record: ZEROED PH METER TO 7.0, SPANNED TO 10.0.

C K Y incorporated
Analytical Laboratories

Date: 03-29-1995
CKY Batch No.: 95C050

Attn.: Debbie Takashima

TRW
One Space Park Drive
Redondo Beach, CA 90278

Subject: Laboratory Report
Project: Monadnock

Enclosed is the Laboratory report for samples received on 03/09/95. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
MW-1-ABC	C050-01	Water	EPA 601 Cyanide Cadmium Chromium
MW-4-ABC	C050-02	Water	EPA 601 Cyanide Cadmium Chromium
MW-7-ABC	C050-03	Water	EPA 601 Cyanide Cadmium Chromium
MW-2-ABC	C050-04	Water	EPA 601 Cyanide Cadmium Chromium
RINSATE	C050-05	Water	EPA 601
TRIP BLANK	C050-06	Water	EPA 601

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

EPA METHOD 8010
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	NA
SAMPLE ID:	MW-1-ABC	DATE ANALYZED:	03/23/95
CONTROL NO.:	C050-01	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	5.2	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	ND	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	80	65-135

MDL: Method Detection Limit

EPA METHOD 8010
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	NA
SAMPLE ID:	MW-4-ABC	DATE ANALYZED:	03/23/95
CONTROL NO.:	C050-02	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	ND	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	78	65-135

MDL: Method Detection Limit

EPA METHOD 8010
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	NA
SAMPLE ID:	MW-7-ABC	DATE ANALYZED:	03/23/95
CONTROL NO.:	C050-03	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	66	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	145	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	4.5	1
Tetrachloroethene	28	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	82	65-135

MDL: Method Detection Limit

EPA METHOD 8010
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	NA
SAMPLE ID:	MW-2-ABC	DATE ANALYZED:	03/23/95
CONTROL NO.:	C050-04	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	176	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	8.3	1
Chloroform	2.5	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	4.1	1
Trichloroethene	330	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	17.5	1
Tetrachloroethene	102	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	84	65-135

MDL: Method Detection Limit

EPA METHOD 8010
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	NA
SAMPLE ID:	RINSATE	DATE ANALYZED:	03/23/95
CONTROL NO.:	C050-05	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	ND	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	86	65-135

MDL: Method Detection Limit

EPA METHOD 8010
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	NA
SAMPLE ID:	TRIP BLANK	DATE ANALYZED:	03/23/95
CONTROL NO.:	C050-06	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	ND	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	80	65-135

MDL: Method Detection Limit

EPA METHOD 8010
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	NA
PROJECT:	Monadnock	DATE RECEIVED:	NA
BATCH NO.:	95C050	DATE EXTRACTED:	NA
SAMPLE ID:	HBLK01	DATE ANALYZED:	03/23/95
CONTROL NO.:	CVBLK15	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	ND	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	74	65-135

MDL: Method Detection Limit

CKY QUALITY CONTROL DATA
SPIKE/SPIKE DUPLICATE ANALYSIS

CLIENT: TRW, Inc.
PROJECT: TRW-McCook
METHOD: EPA 8010
MATRIX: WATER

BATCH NO.: 95C050
SAMPLE ID: SP-8
CONTROL NO.: C045-12

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 03/23/95

ACCESSION: 95C045 95C050

Parameter	SAMPLE CONC (ug/L)	SPIKE ADDED (ug/L)	MS CONC (ug/L)	MS % REC	SPIKE ADDED (ug/L)	MSD CONC (ug/L)	MSD % REC	% RPD
1,1-DCE	ND	30	32	107	30	32	107	0
TCE	ND	30	29	97	30	31	103	7
2-Chlorotoluene	ND	30	31	103	30	33	110	6
QC LIMIT:				65-135			65-135	30

CKY QUALITY CONTROL DATA
LABORATORY CONTROL SAMPLE ANALYSIS

CLIENT: TRW, Inc.
PROJECT: TRW-McCook
METHOD: EPA 8010
MATRIX: WATER

BATCH NO.: 95C050
SAMPLE ID: LCS1
CONTROL NO.: CVLCS12

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 03/23/95

ACCESSION: 95C045 95C050

PARAMETER	TRUE VALUE (ug/L)	FOUND VALUE (ug/L)	LCS RECOVERY (%)
1,1-DCE	30	36	120
TCE	30	37	123
2-Chlorotoluene	30	40	133
QC LIMIT:			70-125

EPA METHOD 3005/6010
METALS BY ICP

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	03/17/95
SAMPLE ID:	MW-1-ABC	DATE ANALYZED:	03/17/95
CONTROL NO.:	C050-01	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETER	DET LIMIT (ug/L)	RESULT (ug/L)
Cadmium	5	ND
Chromium	10	ND

EPA METHOD 3005/6010
METALS BY ICP

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	03/17/95
SAMPLE ID:	MW-4-ABC	DATE ANALYZED:	03/17/95
CONTROL NO.:	C050-02	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETER	DET LIMIT (ug/L)	RESULT (ug/L)
Cadmium	5	ND
Chromium	10	ND

EPA METHOD 3005/6010
METALS BY ICP

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	03/17/95
SAMPLE ID:	MW-7-ABC	DATE ANALYZED:	03/17/95
CONTROL NO.:	C050-03	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETER	DET LIMIT (ug/L)	RESULT (ug/L)
Cadmium	5	ND
Chromium	10	49.6

EPA METHOD 3005/6010
METALS BY ICP

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	03/17/95
SAMPLE ID:	MW-2-ABC	DATE ANALYZED:	03/17/95
CONTROL NO.:	C050-04	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETER	DET LIMIT (ug/L)	RESULT (ug/L)
Cadmium	5	ND
Chromium	10	206

EPA METHOD 3005/6010
METALS BY ICP

CLIENT:	TRW	DATE COLLECTED:	NA
PROJECT:	Monadnock	DATE RECEIVED:	NA
BATCH NO.:	95C050	DATE EXTRACTED:	03/17/95
SAMPLE ID:	IBLK01	DATE ANALYZED:	03/17/95
CONTROL NO.:	C048-B1W	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETER	DET LIMIT (ug/L)	RESULT (ug/L)
Cadmium	5	ND
Chromium	10	ND

CKY QUALITY CONTROL DATA
SPIKE ANALYSIS

:LIENT: TRW
'ROJECT: Monadnock
:ETHOD: EPA 3005/6010
:ATRIX: WATER

:ATCH NO.: 95C050
:AMPLE ID: MHA-1
:ONTROL NO.: C053-01

DATE RECEIVED: NA
DATE EXTRACTED: 03/17/95
DATE ANALYZED: 03/17/95

.CCESSION: 95C048 95C050 95C053

'ARAMETER	SAMPLE RESULT (ug/L)	SPIKE CONC. (ug/L)	SPIKE RESULT (ug/L)	SPIKE RECRY. (%)
:admium	ND	1000	1080	108
:hromium	ND	1000	1120	112

CKY QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

:LIENT: TRW
'ROJECT: Monadnock
METHOD: EPA 3005/6010
MATRIX: WATER

:ATCH NO.: 95C050
SAMPLE ID: MHA-1
CONTROL NO.: C053-01

DATE RECEIVED: NA
DATE EXTRACTED: 03/17/95
DATE ANALYZED: 03/17/95

.CCESSION: 95C048 95C050 95C053

'ARAMETER	SAMPLE RESULT (ug/L)	DUP SAMPLE RESULT (ug/L)	RPD RESULT (%)
Cadmium	ND	ND	0
:hromium	ND	ND	0

CKY QUALITY CONTROL DATA
LABORATORY CONTROL SAMPLE ANALYSIS

:LIENT: TRW
'ROJECT: Monadnock
IETHOD: EPA 3005/6010
IATRIX: WATER

:ATCH NO.: 95C050
:AMPLE ID: LCS1
:ONTROL NO.: C048-L1W

DATE RECEIVED: NA
DATE EXTRACTED: 03/17/95
DATE ANALYZED: 03/17/95

.CCESSION: 95C048 95C050 95C053

'ARAMETER	TRUE VALUE (ug/L)	FOUND VALUE (ug/L)	LCS RECOVERY (%)
:admium	1000	1010	101
:hromium	1000	1070	107

CKY QUALITY CONTROL DATA
LABORATORY CONTROL SAMPLE ANALYSIS

CLIENT: TRW
PROJECT: Monadnock
METHOD: EPA 3005/6010
MATRIX: WATER

BATCH NO.: 95C050
SAMPLE ID: LCS2
CONTROL NO.: C048-L2W

DATE RECEIVED: NA
DATE EXTRACTED: 03/17/95
DATE ANALYZED: 03/17/95

ACCESSION: 95C048 95C050 95C053

PARAMETER	TRUE VALUE (ug/L)	FOUND VALUE (ug/L)	LCS RECOVERY (%)
Cadmium	1000	1000	100
Chromium	1000	1060	106

EPA METHOD 9010
CYANIDE

CLIENT:	TRW	DATE COLLECTED:	03/09/95
PROJECT:	Monadnock	DATE RECEIVED:	03/09/95
BATCH NO.:	95C050	DATE EXTRACTED:	03/13/95
MATRIX:	WATER	DATE ANALYZED:	03/14/95

SAMPLE ID	CONTROL NO	RESULT (mg/L)	DILUTION FACTOR	MDL (mg/L)
MW-1-ABC	C050-01	ND	1	.01
MW-4-ABC	C050-02	2.67	1	.01
MW-7-ABC	C050-03	0.14	1	.01
MW-2-ABC	C050-04	ND	1	.01
WBLK01	C050-B1W	ND	1	.01

MDL: Method Detection Limit

CKY QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: TRW
PROJECT: Monadnock
METHOD: EPA 9010
MATRIX: WATER

BATCH NO.: 95C050
SAMPLE ID: MW-1-ABC
CONTROL NO.: C050-01

DATE RECEIVED: 03/09/95
DATE EXTRACTED: 03/13/95
DATE ANALYZED: 03/14/95

ACCESSION: 95C050

PARAMETER	Sample (mg/L)	Dup. Sample (mg/L)	RPD (%)
Cyanide	ND	ND	0

CKY QUALITY CONTROL DATA
LABORATORY CONTROL SAMPLE ANALYSIS

CLIENT: TRW
PROJECT: Monadnock
METHOD: EPA 9010
MATRIX: WATER

BATCH NO.: 95C050
SAMPLE ID: LCS1
CONTROL NO.: C050-L1W

DATE RECEIVED: NA
DATE EXTRACTED: 03/13/95
DATE ANALYZED: 03/14/95

ACCESSION: 95C050

PARAMETER	TRUE VALUE (mg/L)	FOUND VALUE (mg/L)	LCS RECOVERY (%)
Cyanide	0.05	0.055	110

95 C 0 5 D 13/ 1082

CHAIN OF CUSTODY RECORD
REQUEST FOR ANALYSIS

DATE: 3-9-95
PAGE 1 OF 1

CKY Incorporated
Analytical Laboratories
630 Maple Ave.
Torrance, Calif. 90503
Tel: 310 618 8889
Fax: 310 618 0818

CLIENT NAME: TRW
ADDRESS: ONE SPACE PARK
REDONDO BEACH, CA
PHONE NO. 813-2722 FAX NO.
PROJECT NAME: MOHAVE DESERT
SEND REPORT TO: DEBBIE TAKASHIMA

SAMPLER NAME/SIGNATURE: BART WESSEL / Bart Wessel

TURN AROUND TIME: NORMAL [X] RUSH [ ]

ANALYSES REQUIRED

	SAMPLE NUMBER	SAMPLING DATE/TIME	PRESERVATIVE	CONTAINER SIZE/TYPE	SAMPLE DESCRIPTION WATER	SOIL	OTHER	418.1	8015	3010/601	3020/602	3080/608	3240/624	3270/625	CAM Metals	[illegible]	[illegible]	[illegible]
1	MW-1-A	3-9-95	+	2-40 ml VOA VIALS	X					X								
	MW-1-B		NaOH	1-1,000 ml HDPE												X		
	MW-1-C		HNO3	1-250 ml HDPE													X	
2	MW-4-A		+	2-40 ml VOA VIALS						X								
	MW-4-B		NaOH	1-1,000 ml HDPE												X		
	MW-4-C		HNO3	1-250 ml HDPE													X	
3	MW-7-A		+	2-40 ml VOA VIALS						X								
	MW-7-B		NaOH	1-1,000 ml HDPE												X		
	MW-7-C		HNO3	1-250 ml HDPE													X	
4	MW-2-A		+	2-40 ml VOA VIALS						X								
	MW-2-B		NaOH	1-1,000 ml HDPE												X		
	MW-2-C		HNO3	1-250 ml HDPE													X	
5	RINSATE		+	2-40 ml VOA VIALS						X								
6	TRIP BLANK		HCL	2-40 ml VOA VIALS						X								

COMMENTS: CALL DEBBIE TAKASHIMA RE ANALYSIS

Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:	Relinquished by: (Signature)	Date:	Received by: (Signature)	Date
Bart Wessel	3-9-95	[illegible]	3-9-95				
Company: TRW	Time: [illegible]	Company: CKY	Time: [illegible]	Company:	Time:	Company:	Time

Storage/Disposal of Samples: Sample will be stored at CKY for 30 days at no charge and at $10/sample/month thereafter. Disposal of sample by the Laboratory will be charged at $10/sample

C K Y incorporated
Analytical Laboratories

Date: 04-05-1995
CKY Batch No.: 95C062

Attn.: Debbie Takashima

TRW
One Space Park Drive
Redondo Beach, CA 90278

Subject: Laboratory Report
Project: Monadnock

Enclosed is the Laboratory report for samples received on 03/13/95. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
MW-11-ABC	C062-01	Water	EPA 601 Cyanide Cadmium Chromium
MW-3-ABC	C062-02	Water	EPA 601 Cyanide Cadmium Chromium
MW-8-ABC	C062-03	Water	EPA 601 Cyanide Cadmium Chromium

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

EPA METHOD 601
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/13/95
PROJECT:	Monadnock	DATE RECEIVED:	03/13/95
BATCH NO.:	95C062	DATE EXTRACTED:	NA
SAMPLE ID:	MW-11-ABC	DATE ANALYZED:	03/27/95
CONTROL NO.:	C062-01	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	20.3	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	59.6	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	4.1	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	74	65-135

MDL: Method Detection Limit

EPA METHOD 601
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/13/95
PROJECT:	Monadnock	DATE RECEIVED:	03/13/95
BATCH NO.:	95C062	DATE EXTRACTED:	NA
SAMPLE ID:	MW-8-ABC	DATE ANALYZED:	03/27/95
CONTROL NO.:	C062-03	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	11.7	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	18.8	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	3.3	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	12 +	65-135

MDL: Method Detection Limit
+ : BFB surrogate was outside the control limit. The sample was reanalyzed out of holding time. Reanalysis results are very close to the ones reported here and seem to suggest that the low BFB recovery in the original analysis may be due to the mistake in the concentration of BFB spiking solution and should not affect the results.

EPA METHOD 601
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/13/95
PROJECT:	Monadnock	DATE RECEIVED:	03/13/95
BATCH NO.:	95C062	DATE EXTRACTED:	NA
SAMPLE ID:	MW-8-ABC	DATE ANALYZED:	04/04/95
CONTROL NO.:	C062-03RE-1	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	5.7	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	19.1	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	3.4	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	68	65-135

MDL: Method Detection Limit

EPA METHOD 601
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/13/95
PROJECT:	Monadnock	DATE RECEIVED:	03/13/95
BATCH NO.:	95C062	DATE EXTRACTED:	NA
SAMPLE ID:	MW-3-ABC	DATE ANALYZED:	03/27/95
CONTROL NO.:	C062-02	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	ND	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	43 +	65-135

MDL: Method Detection Limit
\+ : BFB surrogate was outside the control limit. The reanalysis of the sample was out of holding time but BFB was within the control limit. However, all analytes were not detected in both analysis.

EPA METHOD 601
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/13/95
PROJECT:	Monadnock	DATE RECEIVED:	03/13/95
BATCH NO.:	95C062	DATE EXTRACTED:	NA
SAMPLE ID:	MW-3-ABC	DATE ANALYZED:	04/04/95
CONTROL NO.:	C062-02RE	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	ND	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	67	65-135

MDL: Method Detection Limit

EPA METHOD 601
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	03/13/95
PROJECT:	Monadnock	DATE RECEIVED:	03/13/95
BATCH NO.:	95C062	DATE EXTRACTED:	NA
SAMPLE ID:	MW-8-ABC	DATE ANALYZED:	04/04/95
CONTROL NO.:	C062-03RE-2	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	9.6	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	30.2	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	4.0	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	69	65-135

MDL: Method Detection Limit

EPA METHOD 601
HALOGENATED VOLATILE ORGANICS

CLIENT:	TRW	DATE COLLECTED:	NA
PROJECT:	Monadnock	DATE RECEIVED:	NA
BATCH NO.:	95C062	DATE EXTRACTED:	NA
SAMPLE ID:	HBLK01	DATE ANALYZED:	03/27/95
CONTROL NO.:	CVBLK18	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	results (ug/L)	MDL (ug/L)
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl Chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
1,2-Dichloroethane	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	1
Dibromomethane	ND	1
Bromodichloromethane	ND	1
2-Chloroethyl vinylether	ND	1
trans-1,3-Dichloropropene	ND	1
cis-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
Tetrachloroethene	ND	1
1,3-Dichloropropane	ND	1
1,1,1,2-Tetrachloroethane	ND	1
Dibromochloromethane	ND	1
Ethylene Dibromide	ND	1
Chlorobenzene	ND	1
Bromoform	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorotoluene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Benzylchloride	ND	1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	91	65-135

MDL: Method Detection Limit

CKY QUALITY CONTROL DATA
SPIKE/SPIKE DUPLICATE ANALYSIS

LIENT: TRW
ROJECT: Monadnock
ETHOD: EPA 601
ATRIX: WATER

ATCH NO.: 95C062
AMPLE ID: S395-01
ONTROL NO.: C082-01

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 03/27/95

CCESSION: 95C062 95C082 95C093

arameter	SAMPLE CONC (ug/L)	SPIKE ADDED (ug/L)	MS CONC (ug/L)	MS % REC	SPIKE ADDED (ug/L)	MSD CONC (ug/L)	MSD % REC	% RPD
,1-DCE	ND	30	35	117	30	36	120	3
CE	ND	30	32	107	30	41	137	25
hlorobenzene	ND	30	31	103	30	30	100	3
C LIMIT:				65-135			65-135	30

CKY QUALITY CONTROL DATA
LABORATORY CONTROL SAMPLE ANALYSIS

CLIENT: TRW
PROJECT: Monadnock
METHOD: EPA 601
MATRIX: WATER

==========

BATCH NO.: 95C062
SAMPLE ID: LCS1
CONTROL NO.: CVLCS14

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 03/27/95

ACCESSION: 95C062 95C082 95C093

PARAMETER	TRUE VALUE (ug/L)	FOUND VALUE (ug/L)	LCS RECOVERY (%)
1,1-DCE	30	34	113
TCE	30	32	107
Chlorobenzene	30	31	103
QC LIMIT:			70-125

EPA METHOD 335.2
TOTAL CYANIDE

CLIENT:	TRW	DATE COLLECTED:	03/13/95
PROJECT:	Monadnock	DATE RECEIVED:	03/13/95
BATCH NO.:	95C062	DATE EXTRACTED:	03/15/95
MATRIX:	WATER	DATE ANALYZED:	03/16/95

SAMPLE ID	CONTROL NO	RESULT (mg/L)	DILUTION FACTOR	MDL (mg/L)
MW-11-ABC	C062-01	ND	1	.01
MW-3-ABC	C062-02	ND	1	.01
MW-8-ABC	C062-03	ND	1	.01
WBLK01	C062-B1W	ND	1	.01

MDL: Method Detection Limit

CKY QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: TRW
PROJECT: Monadnock
METHOD: EPA 335.2
MATRIX: WATER

==========

BATCH NO.: 95C062
SAMPLE ID: MW-11-ABC
CONTROL NO.: C062-01

DATE RECEIVED: 03/13/95
DATE EXTRACTED: 03/15/95
DATE ANALYZED: 03/16/95

ACCESSION: 95C062

PARAMETER	SAMPLE (mg/L)	DUP. SAMPLE (mg/L)	RPD (%)
Cyanide	ND	ND	0

CKY QUALITY CONTROL DATA
LABORATORY CONTROL SAMPLE ANALYSIS

CLIENT: TRW
PROJECT: Monadnock
METHOD: EPA 335.2
MATRIX: WATER

==========

BATCH NO.: 95C062
SAMPLE ID: LCS1
CONTROL NO.: C062-L1W

DATE RECEIVED: NA
DATE EXTRACTED: 03/15/95
DATE ANALYZED: 03/16/95

ACCESSION: 95C062

PARAMETER	TRUE VALUE (mg/L)	FOUND VALUE (mg/L)	LCS RECOVERY (%)
Cyanide	0.10	0.11	110

EPA METHOD 3005/6010
METALS BY ICP

CLIENT:	TRW	DATE COLLECTED:	03/13/95
PROJECT:	Monadnock	DATE RECEIVED:	03/13/95
BATCH NO.:	95C062	DATE EXTRACTED:	03/20/95
SAMPLE ID:	MW-11-ABC	DATE ANALYZED:	03/21/95
CONTROL NO.:	C062-01	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETER	DET LIMIT (ug/L)	RESULT (ug/L)
Cadmium	5	ND
Chromium	10	13.1

EPA METHOD 3005/6010
METALS BY ICP

CLIENT:	TRW	DATE COLLECTED:	03/13/95
PROJECT:	Monadnock	DATE RECEIVED:	03/13/95
BATCH NO.:	95C062	DATE EXTRACTED:	03/20/95
SAMPLE ID:	MW-3-ABC	DATE ANALYZED:	03/21/95
CONTROL NO.:	C062-02	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETER	DET LIMIT (ug/L)	RESULT (ug/L)
Cadmium	5	ND
Chromium	10	23.9

EPA METHOD 3005/6010
METALS BY ICP

CLIENT:	TRW	DATE COLLECTED:	03/13/95
PROJECT:	Monadnock	DATE RECEIVED:	03/13/95
BATCH NO.:	95C062	DATE EXTRACTED:	03/20/95
SAMPLE ID:	MW-8-ABC	DATE ANALYZED:	03/21/95
CONTROL NO.:	C062-03	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETER	DET LIMIT (ug/L)	RESULT (ug/L)
Cadmium	5	ND
Chromium	10	20.4

EPA METHOD 3005/6010
METALS BY ICP

CLIENT:	TRW	DATE COLLECTED:	NA
PROJECT:	Monadnock	DATE RECEIVED:	NA
BATCH NO.:	95C062	DATE EXTRACTED:	03/20/95
SAMPLE ID:	IBLK01	DATE ANALYZED:	03/21/95
CONTROL NO.:	C062-B1W	MATRIX:	WATER
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETER	DET LIMIT (ug/L)	RESULT (ug/L)
Cadmium	5	ND
Chromium	10	ND

CKY QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

IENT: TRW
OJECT: Monadnock
THOD: EPA 3005/6010
TRIX: WATER

TCH NO.: 95C062
MPLE ID: MW-11-ABC
NTROL NO.: C062-01

DATE RECEIVED: 03/13/95
DATE EXTRACTED: 03/20/95
DATE ANALYZED: 03/21/95

CESSION: 95C062 95C070

RAMETER	SAMPLE RESULT (ug/L)	DUP SAMPLE RESULT (ug/L)	RPD RESULT (%)
dmium	ND	ND	0
romium	13.1	ND	200

CKY QUALITY CONTROL DATA
SPIKE ANALYSIS

LIENT: TRW
ROJECT: Monadnock
ETHOD: EPA 3005/6010
IATRIX: WATER

ATCH NO.: 95C062
AMPLE ID: MW-11-ABC
ONTROL NO.: C062-01

DATE RECEIVED: 03/13/95
DATE EXTRACTED: 03/20/95
DATE ANALYZED: 03/21/95

CCESSION: 95C062 95C070

ARAMETER	SAMPLE RESULT (ug/L)	SPIKE CONC. (ug/L)	SPIKE RESULT (ug/L)	SPIKE RECRY. (%)
admium	ND	1000	1100	110
hromium	13.1	1000	1120	110

CKY QUALITY CONTROL DATA
LABORATORY CONTROL SAMPLE ANALYSIS

LIENT: TRW
ROJECT: Monadnock
ETHOD: EPA 3005/6010
ATRIX: WATER

ATCH NO.: 95C062
AMPLE ID: LCS1
ONTROL NO.: C062-L1W

DATE RECEIVED: NA
DATE EXTRACTED: 03/20/95
DATE ANALYZED: 03/21/95

CCESSION: 95C062 95C070

ARAMETER	TRUE VALUE (ug/L)	FOUND VALUE (ug/L)	LCS RECOVERY (%)
admium	1000	1060	106
hromium	1000	1130	113

TS 0062 3/13/1B2

CHAIN OF CUSTODY RECORD
REQUEST FOR ANALYSIS

CKY Incorporated
Analytical Laboratories
630 Maple Ave.
Torrance, Calif. 90503
Tel: 310 618-8889
Fax: 310 618 0818

CLIENT NAME: TRW
ADDRESS: ONE SPACE PARK
REDONDO BEACH, CA
PHONE NO. 813-2722 FAX NO.
PROJECT NAME: MONADNOCK
SEND REPORT TO: DEBBIE TAKASHIMA

DATE: 3-13-95
PAGE 1 OF 1

SAMPLER NAME/SIGNATURE: BART WESSEL / Bart Wessel

TURN AROUND TIME: NORMAL ☒ RUSH ☐

SAMPLE NUMBER	SAMPLING DATE/TIME	PRESERVATIVE	CONTAINER SIZE/TYPE	SAMPLE DESCRIPTION: WATER	SOIL	OTHER	418.1	418015	3010/601	3020/602	3080/608	3240/624	3270/625	CAM Metals	[illegible]	[illegible]	[illegible]
MW-11-A	3-13-95	+	2-40 ml VOA VIALS	X					X								
MW-11-B		NaOH	1-1,000 ml HDPE												X		
MW-11-C		HNO3	1-250 ml HDPE													X	
MW-3-A		+	2-40 ml VOA VIALS						X								
MW-3-B		NaOH	1-1,000 ml HDPE												X		
MW-3-C		HNO3	1-250 ml HDPE													X	
MW-8-A		+	2-40 ml VOA VIALS						X								
MW-8-B		NaOH	1-1,000 ml HDPE												X		
MW-8-C		HNO3	1-250 ml HDPE													X	

COMMENTS: CALL DEBBIE TAKASHIMA IF YOU HAVE ANY QUESTIONS.

Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:	Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:
Bart Wessel	3-13-95	[illegible]	3-13-95				
Company: TRW	Time: 5:45	Company: CKY	Time: 5:45	Company:	Time:	Company:	Time:

Storage/Disposal of Samples: Sample will be stored at CKY for 30 days at no charge and at $10/sample/month thereafter. Disposal of sample by the Laboratory will be charged at $10/sample

CKY INC., ANALYTICAL LABORATORIES, 630 Maple Ave., Torrance, Calif. 90503 Tel. (310) 618-8889 Fax: (310) 618-0818

SAMPLE RECEIPT FORM

CONTROL NO.	95C062
CLIENT	TRW
PROJECT	MONADNOCK

DATE	03 - 13 - 95
TIME	5:45
RECIPIENT	I. PATEL

SAMPLE TRANSPORTATION TO CKY LABORATORY:	BY	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS
PICKED-UP BY CKY COURIER					
DELIVERED BY CLIENT ✓	SEE COC				
SHIPPED/AIRBILL NO					

SAMPLE BATCH PACKAGING/SEALING UPON RECEIPT:	✓ NO CONTAINER	✓ INTACT	DAMAGED	NOT SEALED	SEALED

CONTAINER:	INSIDE TEMPERATURE: ICED C			CUSTODY SEAL /OTHER SEAL		LOCATION	NUMBER
COOLER	PACKAGING	TYPE	SUFFICIENCY	INTACT	DAMAGED		
BOX	INSULATION:			NAME:			
OTHER:	ICE/COOLANT:			DATE:			
	PACKING MATERIAL:			TIME:			

SAMPLE DOCUMENTATION/CHAIN-OF-CUSTODY(COC)	NONE	✓ HANDCARRIED	ENCLOSED	FAXED	SEALED

SAMPLE LOG-IN:	CRITERIA	COMMENTS	DISCREPANCY
SAMPLE CUSTODY SEAL	EVERY SAMPLE	NONE	
CONTAINER TYPE/MATERIAL	APPROPRIATE	ok	
SAMPLE AMOUNT	ENOUGH		
SAMPLE PRESERVATION/HOLDING TIME	SUFFICIENT		
HEADSPACE/BUBBLES	ZERO/NONE		
SAMPLE LABEL INFORMATION	SUFFICIENT		
CHAIN-OF-CUSTODY INFORMATION	SUFFICIENT		

SAMPLE INFO.:	SAMPLE ID ✓	DATE ✓	TIME ✗	SIGNATURE ✓	ANALYSES ✓	PRESERVATIVE ✓	CONTAINER ✓
INDIVIDUAL SAMPLE CONTAINER:		NONE	✓ PLASTIC BAG	CAN	OTHER(SPECIFY):		SEALED

SAMPLE NUMBER	CLIENT ID	DISCREPANCY	ACTION

CLIENT SERVICES COPY RECEIVED BY	Cecilia 3/14	DATE		TIME	