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Clayton
ENVIRONMENTAL
CONSULTANTS

December 20, 1994

Mr. William Block
CAPSULE ENVIRONMENTAL ENGINEERING, INC.
1970 Oakcrest Avenue, Suite 213
St. Paul, Minnesota 55113-2624

Clayton Project No. 59125.00

Subject: Analytical results of monitoring wells at the Ingersoll-Rand facility in San Leandro, California

Dear Mr. Block:

As we discussed in our telephone conversation, we have reviewed the analytical results for the two sampling events at the Ingersoll-Rand facility. This site was sampled by Clayton on June 21, 1994 and October 20 and 21, 1994. Two issues were noted during our review. These issues are discussed below.

The detection limit for the analyte 2-Butonone in well MW-1, sampled in October, was reported as 5 µg/L, however the detection limit for 2-butonone in the other wells was reported as 20 µg/L. The detection limit was reported in error for well MW-1. Attached to this letter is a revised report for well MW-1. Please insert these results into the previous report.

The detection limits for well MW-4, sampled in June, were higher than those reported in October. The detection limits, reported in June and October, were the same for the other wells. There are two factors which contributed to the higher detection limits for well MW-4. Firstly, the available sample volume transported to Clayton's laboratory was half that collected. As you may recall the sample was split for comparison with another laboratory. In addition, the concentrations of several constituents in the sample from well MW-4 was significantly higher than the other wells. These two factors contributed to a higher dilution factor for well MW-4 and resulted in higher detection limits. Please note that the higher dilution factor was noted on the analytical report on page 13.

Acetone was detected in the samples, collected in October, from wells MW-3 and MW-4 at concentrations of 50 and 160 µg/L. Acetone was not detected in the samples collected in June. It is possible that the acetone is a laboratory contaminant. We are rerunning the samples to evaluate this possibility. We will forward the results to you as soon as we receive them.

If you have any further questions regarding the sampling event, please call me at (510) 426-2676.

Sincerely,

John F. Vargas, R.G.
Supervisor, Geosciences and Remediation
Western Operations

JFV/jfv
Attachment

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Analytical Results
for
Clayton Environmental Consultants, Inc.
Client Reference: 59129.00
Clayton Project No. 94102.69

Sample Identification:	MW-1	Date Sampled:	10/20/94
Lab Number:	9410269-01A	Date Received:	10/20/94
Sample Matrix/Media:	WATER	Date Prepared:	10/28/94
Preparation Method:	EPA 5030	Date Analyzed:	10/28/94
Method Reference:	EPA 8260	Analyst:	JP

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
Volatile Organic Compounds			
Acetone	67-64-1	ND	20
Benzene	71-43-2	ND	5
Bromobenzene	108-86-1	ND	5
Bromochloromethane	74-97-5	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	5
2-Butanone	78-93-3	ND	20
n-Butylbenzene	104-51-8	ND	5
Carbon disulfide	75-15-0	ND	5
Carbon tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	5
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	5
2-Chlorotoluene	95-49-8	ND	5
4-Chlorotoluene	106-43-4	ND	5
Dibromochloromethane	124-48-1	ND	5
1,2-Dibromo-3-chloropropane	96-12-8	ND	5
1,2-Dibromoethane	106-93-4	ND	5
Dibromomethane	74-95-3	ND	5
1,2-Dichlorobenzene	95-50-1	ND	5
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5

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Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
Volatile Organic Compounds (Continued)			
1,2-Dichloropropane	78-87-5	ND	5
1,3-Dichloropropane	142-28-9	ND	5
2,2-Dichloropropane	594-20-7	ND	5
1,1-Dichloropropene	563-58-6	ND	5
cis-1,3-dichloropropene	10061-01-5	ND	5
trans-1,3-dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
Freon 113	76-13-1	ND	5
Hexachlorobutadiene	87-68-3	ND	20
2-Hexanone	591-78-6	ND	5
Isopropylbenzene	98-82-8	ND	5
p-Isopropyltoluene	99-87-6	ND	5
Methylene chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	5
Naphthalene	91-20-3	ND	5
n-Propylbenzene	103-65-1	ND	5
sec-Butylbenzene	135-98-8	ND	5
Styrene	100-42-5	ND	5
tert-Butylbenzene	98-06-6	ND	5
1,1,1,2-Tetrachloroethane	630-20-6	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,2,3-Trichlorobenzene	87-61-6	ND	5
1,2,4-Trichlorobenzene	120-82-1	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	11	5
Trichlorofluoromethane	75-69-4	ND	5
1,2,3-Trichloropropane	96-18-4	ND	5

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Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
Volatile Organic Compounds (Continued)			
1,2,4-Trimethylbenzene	95-63-6	ND	5
1,3,5-Trimethylbenzene	108-67-8	ND	5
Vinyl acetate	108-05-4	ND	10
Vinyl chloride	75-01-4	ND	5
o-Xylene	95-47-6	ND	5
p,m-Xylenes	--	ND	5
Surrogates		**Recovery (%)**	**QC Limits (%)**
4-Bromofluorobenzene	460-00-4	97	74 - 121
Dibromofluoromethane	1868-53-7	93	80 - 120
Toluene-d8	2037-26-5	102	81 - 117

ND: Not detected at or above limit of detection
--: Information not available or not applicable