



91 FEB 15 AM 10:51

February 12, 1991

Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, CA 94580

Attention: Ms. Susan Keach
Industrial Waste Inspector

Subject: Groundwater Remediation System at
Crown Metals Manufacturing Co.
16525 Worthley Drive
San Lorenzo, California
Exceltech Project No. 3-3462

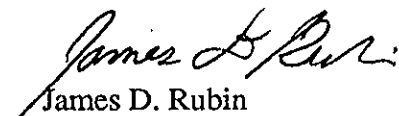
Dear Ms. Keach:

Enclosed are the lab results on the groundwater sampling of the remediation system after one week's operation. Please note the effluent TPHG and BTEX levels are all at non-detectable limits and the arsenic effluent level is below the permit limit of 0.1 mg/L. As we discussed over the telephone this morning, we will begin monthly general analysis, TPHG and BTEX sampling as dictated on page 8 of our discharge permit. Please notify us in writing of your approval of this action.

Also, note in the data that the groundwater from the recovery well had 78 ppb TPHG. This is a good indicator that the groundwater is being remediated.

If you have any question, please feel free to contact me.

Sincerely,


James D. Rubin
Project Engineer

JDS/tr

Enclosure

cc: Richard Ernest, Crown Metals
Pam Evans, Alameda County Health Services Agency





SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Exceltech	Client Project ID: #3462-2, Crown Metals, P.O. #21886	Sampled: Jan 16, 1991
41674 Christy Street	Matrix Descript: Water	Received: Jan 17, 1991
Fremont, CA 94538	Analysis Method: EPA 5030/8015/8020	Analyzed: Jan 23, 1991
Attention: Jim Rubin	First Sample #: 101-1862 B - D	Reported: Jan 30, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons	Benzene	Toluene	Ethyl Benzene	Xylenes
		$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
1011862 B - D	Influent	78	17	2.7	7.7	1.3
1011863 B - D	Effluent	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	30	0.30	0.30	0.30	0.30
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

V. Tague
Vickie Tague
Project Manager



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Exceltech
41674 Christy Street
Fremont, CA 94538
Attention: Jim Rubln

Client Project ID: #3462-2, Crown Metals, P.O. #21886
Sample Descript: Water
Analysis for: Arsenic
First Sample #: 101-1862 A

Sampled: Jan 16, 1991
Received: Jan 17, 1991
Extracted: Jan 18, 1991
Analyzed: Jan 29, 1991
Reported: Jan 30, 1991

LABORATORY ANALYSIS FOR: Arsenic

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
1011862 A	Influent	0.0050	0.094
1011863 A	Effluent	0.0050	0.042

Analytes reported as N.D. were not present above the stated limit of detection.

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Vickie Tagle
Project Manager



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Exceltech
41674 Christy Street
Fremont, CA 94538
Attention: Jim Rublin

Client Project ID: #3462-2, Crown Metals

QC Sample Group: 1011862 - 1011863

Reported: Jan 30, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Arsenic	Selenium	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 206.2	EPA 270.2	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	R.Sharma	R.Sharma	L.Gonzales	L.Gonzales	L.Gonzales	L.Gonzales
Reporting Units:	mg/L	mg/L	ng	ng	ng	ng
Date Analyzed:	Jan 29, 1991	Jan 29, 1991	Jan 23, 1991	Jan 23, 1991	Jan 23, 1991	Jan 23, 1991
QC Sample #:	101-1158	101-1158	G1011278	G1011278	G1011278	G1011278
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.10	0.10	100	100	100	300
Conc. Matrix Spike:	0.11	0.096	87	85	86	256
Matrix Spike % Recovery:	110	96	87	85	86	85
Conc. Matrix Spike Dup.:	0.11	0.095	87	86	87	258
Matrix Spike Duplicate % Recovery:	110	95	87	86	87	86
Relative % Difference:	0.0	1.0	0.0	1.2	1.2	0.78

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V. Tague
Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

