



June 26, 1996

County of Imperial
Imperial County Health Services
Division of Environmental Health
939 Main Street
El Centro, California 92243

SUBJECT: GEOTHERMAL TEST FACILITY REMOVAL OF SEPTIC SYSTEM

The Department of Energy has removed and disposed of the septic system, including the leach field that had been installed at its East Mesa test sight. The complete removal took place May 28, 1996. The contents of the tanks had been tested and the results are attached. No hazardous chemicals were discovered as a result of the testing.

All improvements to the geothermal test facility have been removed from the sight with the exception of the pond area. A separate project has been initiated to remediate the pond area by October 1, 1996.

If you have any questions, please contact Gregory D. Collette at 303-275-4734.

**Original Signed By
Frank M. Stewart**

Frank M. Stewart
Manager

**TABLE 3-1
LABORATORY RESULTS FOR METALS ANALYSIS
IN LIQUID SAMPLES**

Analyte	Regulatory Values California STLC	Liquid Results (in mg/L)					
		GTF-15 S Septic Tank	GTF-16 N Septic Tank	GTF-33 Well No. 1	GTF-43 Well No. 3	GTF-48 Well No. 4	GTF-53 Well No. 5
Antimony	15	ND	0.12	0.006	ND	0.018	ND
Arsenic	5	ND	4	0.011	ND	ND	ND
Barium	100	0.47	13	0.62	0.58	0.03	0.005
Beryllium	0.75	ND	ND	ND	ND	ND	ND
Cadmium	1	ND	0.35	ND	ND	ND	ND
Chromium	5	ND	0.78	0.013	0.004	0.004	0.009
Cobalt	80	ND	0.067	ND	ND	ND	ND
Copper	25	0.048	13	ND	0.004	0.007	0.005
Lead	5	0.011	4.2	ND	ND	ND	0.059
Mercury	0.2	ND	ND	ND	ND	ND	ND
Molybdenum	350	0.008	1.4	0.009	ND	0.018	1.7
Nickel	20	0.018	0.78	0.004	ND	ND	0.17
Selenium	1	ND	0.098	ND	ND	ND	ND
Silver	5	0.001	0.055	0.027	ND	0.14	0.007
Thallium	7	ND	0.14	ND	ND	ND	ND
Vanadium	24	ND	0.22	ND	ND	ND	ND
Zinc	250	0.44	65	0.24	0.022	0.055	0.041

Notes:

California Hazardous Waste Regulations, Chapter 11, Article 3, §66261.24

STLC = Soluble Threshold Limit Concentration

ND = not detected, below MDL (method detection limit)

DLR = MDL x dilution factor

**TABLE 3-2
LABORATORY RESULTS FOR
METALS ANALYSIS IN SOILS**

Analyte	Regulatory Values California TTLC	Soil Results (in mg/kg)								
		GTF-5-S N/S Septic Tank	GTF-21-S Cooling Tower	GTF-22-S Cooling Tower	GTF-23-S Cooling Tower	GTF-24-S Cooling Tower	GTF-83-S Turbine Pump Well 1	GTF-88-S Turbine Pump Well 2	GTF-93-S Drain Sump	
Antimony	500	5.3	2.2	2.7	2.3	2.5	0.39	1.8	0.66	
Arsenic	500	56	62	36	46	110	1.1	1	1.8	
Barium	10000	673	351	284	322	504	34	29	66	
Beryllium	75	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	100	12	427	542	460	461	ND	ND	0.48	
Chromium	500	22	20	26	22	19	2.5	2.6	7.1	
Cobalt	8000	1.7	233	74	106	216	1.3	1.4	1.5	
Copper	2500	471	7.2	6.9	8.3	23	2.2	1.9	9.7	
Lead	1000	171	ND	ND	ND	ND	1.9	1.7	18	
Mercury	20	ND	1.9	1.5	1.1	1.5	ND	ND	14	
Molybdenum	3500	33	382	463	404	338	ND	0.32	0.35	
Nickel	2000	25	0.33	ND	0.33	0.31	2.4	2.4	3.2	
Selenium	100	2.7	ND	ND	ND	ND	ND	0.25	0.28	
Silver	500	3	1	1.2	0.74	0.59	ND	0.53	0.19	
Thallium	700	0.26	5.3	6.5	5.5	5.2	ND	0.33	0.34	
Vanadium	2400	7.9	196	71	61	8.2	4.6	5.1	5.3	
Zinc	5000	1540					11	8.9	126	

Notes:

California Hazardous Waste Regulations, Chapter 11, Article 3, §66261.24
 TTLC = Total Threshold Limit Concentration
 ND = not detected, below MDL (method detection limit)
 DLR = MDL x dilution factor

Bolded detected values indicate those above the respective threshold limits