Rev. 3/82

Field No. _____

[ ] TC [1] TM [ ] Nut
[ ] PC [ ] PM [ ] BOD

[ ] Pest.
[ ] Rad.
[ ] Bact.
[1] Spec.

RECEIVED MAR 26 1986 DIVISION OF OIL, GAS & MINING

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH
WATER ANALYSES

3 860540

Sample No. 701

Storet No. [ ]

Water Syst. No. Source No. [ ] 703 704

Date Collected 702: 86 02 06 (yr. mo. dy.) 714

Time Collected: 1500 (24-hour clock) 810

Water Rights No. [ ] 707

Exact Description of sampling Point: Tailings Pond - below Leach pond - Silver Reef Mine #3 646

Supply Owned by: CM Corporation 712

Sample Type [ ] 710

Sample Collected by: JFricke 713

SEND REPORT TO: Phone [ ]
DOGM - 3Triad 255 W North 715
Temple, SLC UT 648
zip code 717

Sample Source 719: 01 Spring, 02 Well, 03 Stream, 04 Lake, 06 Dist. syst., 07 Effluent, 08 Storm sewer, 14 Other, 15 Tunnel, 18 Artesian well, 19 Swimming pool

County 611: 01 Beaver, 02 Box Elder, 03 Cache, 04 Carbon, 05 Daggett, 06 Davis, 07 Duchesne, 08 Emery, 09 Garfield, 10 Grand, 11 Iron, 12 Juab, 13 Kane, 14 Millard, 15 Morgan, 16 Piute, 17 Rich, 18 Salt Lake, 19 San Juan, 20 Sanpete, 21 Sevier, 22 Summit, 23 Tooele, 24 Uintah, 25 Utah, 26 Wasatch, 27 Washington, 28 Wayne, 29 Weber

Current use 708: [1]
Proposed use 709: [ ]

1. Culinary
2. Agriculture
3. Industrial
4. Other

Cost Code 770: 350 B

1 FIELD TESTS

Temperature (°C)	792	CO_2, mg/l	572
D.O., mg/l	793	Depth, m	609
Sp. Cond. µ mhos	653	Cl Resid., mg/l	753
pH	651	Flow, MGD	652
Sp. Gravity	608	Flow, GPM	604
Transparency, m	649	Flow, cfs	659

2 WASTEWATER ANALYSIS

Temperature (°C) 650 | pH 782 | BACT. LAB. No. _____

	mg/l		mg/l		
B.O.D.$_5$	794	T.O.C.	671	M.P.N. Total Coliforms/100ml	658
Tot. Sus. Solids	787	C.O.D.	777	M.P.N. Fecal Coliforms/100ml	657
NO_2+NO_3,N	602	Cyanide [X]	775 .003	Fecal Strep C/100ml.	656
T.K.N.	778	Phenolics	783	M.F. Total Coliforms/100ml.	654
Oil & Grease	780	Sulfide	672	M.F. Fecal Coliforms/100ml.	655
				Plate Count-Org./ml.	599

3 Filtered [ ] Unfiltered [1]

me/l	CATIONS	mg/l	ug/l (ppb)
	Ammonia as N		722
	Arsenic		723
	Barium		724
	Boron		725
	Cadmium		727
	Calcium		728
	Chromium		729
	Chromium, Hex. as Cr		730
	Copper		732
	Iron, dissolved		733
	Lead		734
	Magnesium		737
	Manganese		738
	Nickel		740
	Potassium		742
	Selenium		743
	Silver		744
	Sodium		745
	Zinc		749
	TOTAL CATIONS		

Sp. Cond. µmhos/cm.	762
TDS @ 180°C	786

4 CHEMICAL ANALYSIS

pH, units _____

me/l	ANIONS	mg/l	
	Bicarbonate		758
	Carbon Dioxide		759
	Carbonate		760
	Chloride		763
	CO_3 Solids		
	Fluoride		765
	Hydroxide		767
	Nitrate as N		605
	Nitrite as N		606
	Phosphorus, Ortho as P		607
	Silica, dissolved as SiO_2		750
	Sulfate		772
	TOTAL ANIONS		
	GRAND TOTAL		

Tot. Phosphorus		785
Total Alk. as $CaCO_3$		752
T. Hdns. as $CaCO_3$		754
Surfactant as MBAS		773
Turbidity, as NTU		757
Sp. Gravity		608

TOTAL METALS ANALYSIS

5 CATIONS mg/l (ppm) ug/l (ppb)

	mg/l (ppm)	ug/l (ppb)
Aluminum	275,000	800
Arsenic	< .55	660
Barium	< .05	661
Beryllium		801
Cadmium	.3400	662
Chromium	< .5	663
Cobalt		804
Copper	524,000	664
Gold		700
Iron	3.51	755
Lead	< .5	665
Manganese	233,700	666
Mercury	.376	739
Molybdenum		802
Nickel		667
Selenium	< .55	668
Silver	125,000	669
Uranium		601
Vanadium		803
Zinc	333,500	670

6 RADIOLOGICS

	pc/l-g		pc/l-g	
Alpha, gross		621	^{89}Sr	633
Beta, gross		623	^{131}I	635
Tritium, ^3H		625	^{134}Cs	637
^{226}Radium		627	^{137}Cs	639
^{228}Radium		629		
^{90}Sr		631		

Analyses Approved By: REL Date: 860405

INTERPRETATION OF ANALYSES:
Remarks:

Based on State Standards, this sample was:

	Satisfactory	Conditional	Unsatisfactory
B.O.D.$_5$			
Tot. Sus. Solids			
M.P.N. Total Coliform.			
M.P.N. Fecal Coliform.			

By _____
ENVIRONMENTAL HEALTH

INSTRUCTIONS FOR COLLECTING WASTEWATER SAMPLES

1. Select point where sample will be representative and where foreign material will not be brushed into supply while sample is taken.

2. Remove cap from bottle carefully.

3. Collect sample by submerging the bottle and pushing forward with a slow, even motion so that the sample will be collected in a single stroke. If the bottle is more than 2/3 full, the excess should be removed before replacing the cap. This can best be done by flipping the water from the bottle.

4. Replace cap.

NOTE: Bottles contain a liquid or white powder (sodium thiosulfate). Do Not Rinse.

DO NOT TOUCH inside of bottle cap or top of bottle neck.

FOR LABORATORY USE ONLY

Date Rec'd_____ Date Rept'd_____

RESULTS OF ANALYSIS

	volume	Presumptive		Confirmed (BGL B B)					Fecal at 44.5°C		
	ml.	24	48	24	48	24	48	T	24	24	T
☐	10.0	/5	/5	/	/	/	/	/5	/	/	/5
☐	1.0	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-1	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-2	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-3	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-4	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-5	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-6	/5	/5	/	/	/	/	/5	/	/	/5

M P N Coliforms per 100 ml. M P N Fecal Coliforms per 100 ml.

_____ _____