

0015



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

OUTGOING  
01015/015

Michael O. Leavitt  
Governor

Robert L. Morgan  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340 telephone  
801-359-3940 fax  
801-538-7223 TDD/TTY  
www.nr.utah.gov

## UTAH DIVISION OF OIL, GAS & MINING FACSIMILE COVER SHEET

**DATE** April 30, 2003  
**FAX** (435) 286-2338  
**ATTENTION** JAMES BYARS  
**COMPANY** CONSOLIDATION COAL/EMERY DEEP MINE  
**DEPARTMENT** ENGINEERING  
**NUMBER OF PAGES:** (Including this one) 3  
**FROM** DANA DEAN, P.E.

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### MESSAGE:

James,

**Attached is the information that Dave Darby talked about sending you. It has not changed. I think he just wanted to be sure that you were sampling for all required parameters on each sample.**

**Let me know if you have any questions. Dave will be back on Friday.**

Thank you,

A handwritten signature in black ink, appearing to be 'Dana', written over the typed name 'Dana'.

**Important:** This message is intended for the use of the individual or entity of which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly

TABLE VI-22

EMERY MINE  
WATER MONITORING PROGRAM

<u>Sample Location</u>	<u>Flow/Water Level Frequency</u>	<u>Frequency</u>	<u>Water Samples Timing</u>	<u>Parameter Suite</u>
Surface Water Sites 1, 1A, 2, 3, 4, 5, 8, 9, 10 1 2 3 4 5 6 9 10 11	Quarterly	Quarterly	Scheduled with flow measurement.	SW
Surface Water Sites 6, 7, 11, 12, 13	As Required by NPDES Permit	Twice/Month	When flowing	NPDES
Wells & Springs 18 Bryant U 24 EMRIA2 22 Kemmerer-L 21 Lewis U IU2 17 T1(B) 20 TP(U) 19 USGS1-2 23 ZZ-L 26 27 28 25 SM1-1, 1-2, 1-3, 1-4 59 - Christiansen Spring RDA1 thru RDA6 (after prep plant construction)	Quarterly	Twice/Year	During 2nd and 3rd Quarters	GW
Wells RDA1 thru RDA6 29, 30, 31, 32, 33, 34 (before prep plant construction)	Quarterly	Annual	During 2nd Quarter	GW
Wells 35 42 47 51 AA(B), (U), (M), (L), H(B), (U), (M), (L) 52 I(B), (M), (L) 53 R2(B), (U), (M) 50 R1-L 54 T2(B) 41 44 45 Muddy 1, Muddy 2 EMRIA2, EMRIA3 57 FC346WW 58 USGS3-1, USGS4-1 59 WW1 55	Quarterly	None	---	---
Springs 60 Emery Co. #1, Emery Co. #2 Bryant #1, Bryant #2	Quarterly	None	---	---

-154-

TABLE VI-23

EMERY MINE  
WATER MONITORING PROGRAM  
ANALYTICAL PARAMETER SUITES

GW Parameters  
Wells & Springs

Field Measurements

- 9 Water Levels  
2 pH (Field)  
4 Sp. Cond. (Field)  
1 Water Temperature °C

Lab Measurements

- 68 Total Dissolved Solids  
63 Total Hardness (as CaCO<sub>3</sub>)  
52 Carbonate (CO<sub>3</sub><sup>-2</sup>)  
50 Bicarbonate (HCO<sub>3</sub><sup>-</sup>)  
36 Calcium (Ca) Dissolved  
53 Chloride (Cl<sup>-</sup>) Dissolved  
40 Iron (Fe) Dissolved  
42 Magnesium (Mg) Dissolved  
43 Manganese (Mn) Dissolved  
45 Potassium (K) Dissolved  
48 Sodium (Na) Dissolved  
60 Sulfate (SO<sub>4</sub><sup>-2</sup>) Dissolved

SW Parameters  
Surface Water Sites

Field Measurements

- 11 Flows  
2 pH (Field)  
4 Sp. Cond. (Field)  
1 Water Temperature

Lab Measurements

- 99 Total Settleable Solids  
16 Total Suspended Solids  
68 Total Dissolved Solids  
63 Total Hardness (as CaCO<sub>3</sub>)  
19 Oil and Grease (Sites 1A and 4)  
51 Acidity (CaCO<sub>3</sub>)  
52 Carbonate (CO<sub>3</sub><sup>-2</sup>)  
50 Bicarbonate (HCO<sub>3</sub><sup>-</sup>)  
36 Calcium (Ca) Total & Dissolved  
53 Chloride (Cl<sup>-</sup>) Dissolved  
40 Iron (Fe) Total & Dissolved  
42, 264 Magnesium (Mg) Total & Dissolved  
43, 149 Manganese (Mn) Total & Dissolved  
45 Potassium (K) Total & Dissolved  
48 Sodium (Na) Total & Dissolved  
60 Sulfate (SO<sub>4</sub><sup>-2</sup>) Dissolved

NPDES Parameters  
Sedimentation Ponds

Field Measurements

- Flows  
pH (Field)

Lab Measurements

- Total Suspended Solids  
Total Dissolved Solids  
Total Iron  
Oil and Grease

TRANSACTION REPORT

P. 01

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FOR: OIL, GAS & MINING

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*[Signature]*

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