

40-2377

FACSIMILE

To:	John Buckley US Nuclear Regulatory Commission
FAX:	301 415 5398
From:	Henry Morton
Phone:	301 983 0365
FAX:	301 983 2988
Date:	November 5, 1999
Pages:	5 including this page
Subject:	Kaiser Dross Site Surface Water

Three most recent Kaiser dross site surface water sample analyses for radionuclides are transmitted herewith.

- The water sample whose client ID is Fulton Creek was taken in Fulton Creek just upstream of the weir at the northeast corner of the site where the creek leaves the site.
- The Fresh Water Pond sample was taken in the Fresh Water Pond near the weir along the northeast corner of the pond where water leaves the pond.
- The Retention Pond sample was taken in the pond along the southern side about mid way between east and west ends of the pond.

4410



311 Newton Avenue
Burlington, Vermont, USA 05401-8
919 251-2318
FAX 919 251-0008

Client:
Client Project:
Lab Number:
Date Reported:
Date Received:
Page Number:

A & M Engineering
Kaiser
991106
10/27/99
9/21/99
5 of 9

Analytical Report

Method	Result Units	DL	Rep Date	Analyte Date	Analyst
Iron	EPA 6010B 0.79 mg/l	0.01	9/28/99	10/18/99	RE
Magnesium	EPA 6010B 149 mg/l	0.5	9/28/99	10/19/99	RE
Potassium	EPA 6010B 81.8 mg/l	0.2	9/28/99	10/18/99	RE
Sodium	EPA 6010B 24.8 mg/l	2.0	9/28/99	10/19/99	RE
<p>Lab ID: 991106-05 Client ID: Fulton Creek Date Sampled: 9/21/99 10:00:00 AM Reagents: Water</p>					
Radiometric Analyses					
Radium 226	SM 7500 Ra (M) 0.032 +/- 0.102 pCi/l	0.165	9/30/99	10/7/99	RE
Radium-228	EPA 9320 1.15 +/- 0.183 pCi/l	0.469	9/28/99	9/30/99	SD
Thorium-232	LANL ER 200 M 0.00 +/- 0.495 pCi/l	1.01	9/29/99	10/6/99	RE
Thorium-230	LANL ER 200 M 2.10 +/- 0.504 pCi/l	0.636	9/29/99	10/6/99	RE
Thorium-228	LANL ER 200 M 0.643 +/- 0.459 pCi/l	1.00	9/29/99	10/6/99	RE
Inorganics Analyses					
Alkalinity	EPA 310.1 96.0 mg/l	2	9/23/99 9:00:00 AM	9/23/99	RT
Chloride	EPA 325.3 14.8 mg/l	1	10/6/99 1:00:00 PM	10/6/99	RT
Conductivity	EPA 120.1 304 uMHO/cm	2	9/21/99 6:00:00 PM	9/21/99	KT
Fluoride	EPA 340.2 0.3 mg/l	0.2	9/22/99 11:30:00 AM	9/22/99	RT
Nitrate (N)	EPA 352.1 0.6 mg/l	0.2	9/21/99 6:15:00 PM	9/23/99	RT
pH	EPA 150.1 7.85 SI		9/21/99 6:15:00 PM	9/21/99	RT
Silica Dioxide	EPA 370.1 1.5 mg/l	0.8	10/1/99 3:00:00 PM	10/1/99	RT
Sulfate	EPA 375.4 32.4 mg/l	2	9/29/99 10:00:00 AM	9/29/99	RT
Temperature	EPA 170.1 21.1 degrees C		9/21/99 6:15:00 PM	9/21/99	RT
Mercury Analyses					
Mercury	EPA 6010B 0.096 mg/l	0.020	9/28/99	10/18/99	RE

Method
EPA 6010B
EPA 6010B
EPA 6010B
EPA 6010B



**Outreach
Laboratory**

311 North Aspen
Broken Arrow, OK 74012
(918) 251-2915
FAX (918) 251-0058

Client:	A & M Engineering
Client Project:	Kaiser
Lab Number:	991106
Date Reported:	10/27/99
Date Received:	9/21/99
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Analytical Report

Method	Result	Units	DL	Prep Date	Analyze Date	Analyst
Calcium	EPA 6010B	52.5 mg/l	0.2	9/28/99	10/19/99	RE
Iron	EPA 6010B	0.11 mg/l	0.01	9/28/99	10/18/99	RE
Magnesium	EPA 6010B	8.06 mg/l	0.005	9/28/99	10/19/99	RE
Potassium	EPA 6010B	5.0 mg/l	0.2	9/28/99	10/18/99	RE
Sodium	EPA 6010B	8.43 mg/l	0.20	9/28/99	10/19/99	RE

Lab ID: 991106-06
 Client ID: Fresh Water Pond
 Date Sampled: 9/21/99 10:15:00 AM
 Matrix: Water

Radiochemical Analyses

Radium 226	SM 7500 Ra (M)	0.00 +/- 0.139 pCi/l	0.305	9/30/99	10/8/99	RE
Radium-228	EPA 9320	0.00 +/- 0.161 pCi/l	0.469	9/28/99	10/1/99	SD
Thorium-232	LANL ER 200 M	0.208 +/- 0.032 pCi/l	0.026	9/29/99	10/6/99	RE
Thorium-230	LANL ER 200 M	0.634 +/- 0.054 pCi/l	0.021	9/29/99	10/6/99	RE
Thorium-228	LANL ER 200 M	0.058 +/- 0.019 pCi/l	0.031	9/29/99	10/6/99	RE

Inorganics Analyses

Alkalinity	EPA 310.1	81.0 mg/l	2		9/23/99 9:00:00 AM	RT
Chloride	EPA 323.3	1.0 mg/l	1		10/4/99 1:00:00 PM	RT
Conductivity	EPA 120.1	251 uMHO/cm	2		9/21/99 6:00:00 PM	RT
Fluoride	EPA 340.2	0.3 mg/l	0.2		9/22/99 11:30:00 AM	RT
Nitrate (N)	EPA 352.1	0.5 mg/l	0.2	9/23/99 6:15:00 PM	9/23/99	RT
pH	EPA 150.1	7.83 SI			9/21/99 6:15:00 PM	RT
Silica Dioxide	EPA 370.1	1.3 mg/l	0.8		10/1/99 3:00:00 PM	RT
Sulfate	EPA 375.4	29.7 mg/l	2		9/29/99 10:00:00 AM	RT
Temperature	EPA 170.1	20.9 degrees C			9/21/99 6:15:00 PM	RT

Metals Analyses

BDL - Below Detection Limit



Client: A & M Engineering
 Client Project: Kaiser
 Lab Number: 991106
 Date Reported: 10/27/99
 Date Received: 9/21/99
 Page Number: 7 of 9

Analytical Report

	Method	Result	Units	DL	Prep Date	Analysis Date	Analyst
Barium	EPA 6010B	0.036	mg/l	0.020	9/28/99	10/18/99	RE
Calcium	EPA 6010B	51.1	mg/l	0.2	9/28/99	10/19/99	RE
Iron	EPA 6010B	0.12	mg/l	0.01	9/28/99	10/18/99	RE
Magnesium	EPA 6010B	4.54	mg/l	0.005	9/28/99	10/19/99	RE
Potassium	EPA 6010B	1.6	mg/l	0.2	9/28/99	10/18/99	RE
Sodium	EPA 6010B	7.65	mg/l	0.20	9/28/99	10/19/99	RE

Lab ID: 991106-07
 Client ID: Retention Pond
 Date Sampled: 9/21/99 11:00:00 AM
 Matrix: Water

Radiochemical Analyses

Radium 226	SM 7500 Ra (M)	4.50 +/- 0.775	pCi/l	0.131	10/8/99	10/12/99	RE
Radium-228	EPA 9320	0.00 +/- 0.337	pCi/l	0.469	9/28/99	10/1/99	SD
Thorium-232	LANL ER 200 M	0.207 +/- 0.090	pCi/l	0.050	9/29/99	10/6/99	RE
Thorium-230	LANL ER 200 M	0.791 +/- 0.175	pCi/l	0.082	9/29/99	10/6/99	RE
Thorium-228	LANL ER 200 M	0.217 +/- 0.118	pCi/l	0.192	9/29/99	10/6/99	RE

Inorganics Analyses

Alkalinity	EPA 310.1	232	mg/l	2		9/23/99 9:00:00 AM	RT
Chloride	EPA 325.3	129	mg/l	2		10/4/99 1:00:00 PM	RT
Conductivity	EPA 120.1	922	uMHO/cm	2		9/21/99 6:00:00 PM	RT
Fluoride	EPA 340.2	2.6	mg/l	0.2		9/22/99 11:30:00 AM	RT
Nitrate (N)	EPA 352.1	0.5	mg/l	0.2	9/23/99 8:15:00 PM	9/23/99	RT
pH	EPA 150.1	9.27	SI			9/21/99 6:15:00 PM	RT
Silica Dioxide	EPA 370.1	BDL	mg/l	0.8		10/1/99 3:00:00 PM	RT
Sulfate	EPA 375.4	67.5	mg/l	4		9/29/99 10:00:00 AM	RT

BDL = Below Detection Limit



**Outreach
Laboratory**

211 North Avenue
Bremen, Georgia, GA 76012
(918) 251-2515
FAX (918) 251-2558

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A & M Engineering
Kaiser
991106
1027799
9/21/99
8 of 9

Analytical Report

Method	Result Units	DL	Prep Date	Analyse Date	Analyst
EPA 170.1	21.2 degrees C			9/21/99 6:15:00 PM	RT
Metals Analyzes					
Barium	0.506 mg/l	0.020	9/28/99	10/18/99	RE
Calcium	13.2 mg/l	0.2	9/28/99	10/19/99	RE
Iron	0.10 mg/l	0.01	9/28/99	10/18/99	RE
Magnesium	110 mg/l	0.5	9/28/99	10/19/99	RE
Potassium	36.0 mg/l	0.2	9/28/99	10/18/99	RE
Sodium	24.5 mg/l	2.0	9/28/99	10/19/99	RE