0400869898DE

40-8698

RETURN ORIGINAL TO PDR, HQ.

Shootaring Operations: Box 2111 Ticaboo, Lake Powell, UT 84533 (801) 788-2120

July 8, 1992

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

DOCKETED
JUL 17 1992
US NRC
MAIL SECTION
DOCKET CLERK

'92 JUL 17 A10:06
URFO
RECEIVED

U. S. Nuclear Regulatory Commission
Uranium Recovery Field Office
P. O. Box 25325
Denver, CO 80225

RE: Effluent Monitoring Report - SUA-1371, Docket No. 40-8698

Gentlemen:

Enclosed please find the original and four copies of the Effluent Monitoring Report for the Shootaring Canyon Uranium Processing Facility for the period from January 1, 1992 through June 30, 1992 This report is submitted in accordance with the requirements of 10 CFR 40.65.

Sincerely,

Vance W Morrill

Vance W. Morrill
Environmental Radiological Health Technician

Enclosures

cc: GBuller
NSavignac
USNRC, Director of Inspection and Enforcement (2)

140005

9209210175 920630
PDR ADOCK 04008698
C PDR

DESIGNATED ORIGINAL

Certified By Mary C. Hooks

D102

92-0579

EFFLUENT MONITORING REPORT

(10 CFR 40.65)

Report Period: January 1, 1992 through June 30, 1992

Shootering Canyon Uranium Processing Facility
Garfield County, Utah
NRC License No. SUA-1371
Docket No. 40-8698

Prepared by:

Plateau Resources Limited
Box 2111-Ticaboo
Lake Powell, UT 84533

TABLE OF CONTENTS

1.0 INTRODUCTION

The following Effluent Monitoring Report is presented to comply with requirements in accordance with 10 CFR 40, section 40.65, for the Shootaring Canyon Uranium Processing Facility, Source Material License No. SUA-1371, Docket No. 40-8698, operated by Plateau Resources Limited, Box 2111-Ticaboo, Lake Powell, UT 84533.

The sampling data represents the time period from January 1, 1992 through June 30, 1992.

SUPPLEMENTAL NOTES

1. The "% MPC" column refers to the 10 CFR, Part 20, Appendix B, Table II values for unrestricted areas:

	MPC Air (uCi/ml)
U-Natural	5.0 E-12
Ra-226	2.0 E-12
Rn-222	3.0 E-09

2. Values are presented using the "E" format, i.e.:

   1.2 E-16 = 1.2 x 10-16

3. All airborne particulate samples were collected using continuous high volume sampling techniques.

4. Lower limits of detection (LLD) and all analyses for the period of January 1, 1992 through June 30, 1992 were calculated and performed by outside laboratories; Barringer Laboratories, Inc., of Golden Co.

5. Gross concentrations are the sum of naturally occurring background concentrations and mill generated effluents. Similarly, gross exposure rates are the sum of naturally occurring background exposure rates and mill generated exposure rates.

3.0 AIR SAMPLES - 1st Half, 1992

3.1 PARTICULATES, High Volume Air Samples

Date: 1/1/92 to 6/30/92
Location: AP-3 - Downwind; Sampled 20 hours per quarter.

Radionuclide	Gross Concentration and Error Estimate (uCi/ml)	LLD (uCi/ml)	% MPC
U-Nat	6.40 E-16	0.5 E-16	0.012
Ra-226	0.00 E-16 ± 2.40 E-16	1.5 E-16	0.00

4.0 WATER SAMPLES

4.1 Groundwater Monitoring Wells

Date: 4-22-92
Location: RM-1

Type: Radiological Monitoring Well (hydrologically upgradient from tailings impoundment).

Radionuclide	Gross Concentration and Error Estimate (uCi/ml)	LLD (uCi/ml)
U-Nat	3.20 E-9	3 E-13
Ra-226	0.10 E-9 $\pm$ 0.4 E-9	2 E-10

Date: 4-22-92
Location: RM-1

CHEMICAL PARAMETER	CONCENTRATION (mg/l)	LLD (mg/l)
As	0.003	0.001
Se	<0.002	0.001
pH	8.15 pH units	0.1 pH units
chloride	9.00	1.

4.1 Groundwater Monitoring Wells

Date: 4-20-92
Location: RM-4

Type: Radiological Monitoring Well (hydrologically downgradient from tailings impoundment).

Radionuclide	Gross Concentration and Error Estimate (uCi/ml)	LLD (uCi/ml)
U-Nat	2.10 E-9	3 E-13
Ra-226	0.50 E-9 ± 0.60 E-9	2 E-10

Date: 4-20-92
Location: RM-4

CHEMICAL PARAMETER	CONCENTRATION (mg/l)	LLD (mg/l)
As	<0.014	0.001
Se	<0.002	0.001
pH	8.15 pH units	0.1 pH units
Chloride	6.00	1.

4.1 Groundwater Monitoring Wells

Date: 4-21-92
Location: RM-5

Type: Radiological Monitoring Well (hydrologically downgradient from tailings impoundment).

Radionuclide	Gross Concentration and Error Estimate (uCi/ml)	LLD (uCi/ml)
U-Nat	2.60 E-9	3 E-13
Ra-226	0.10 E-9 ± 0.2 E-9	2 E-10

Date: 4-21-92
Location: RM-5

CHEMICAL PARAMETER	CONCENTRATION (mg/l)	LLD (mg/l)
As	<0.003	0.001
Se	<0.002	0.001
pH	8.20	0.1 pH units
Chloride	7.0	1.0

4.1 Groundwater Monitoring Wells

Date: 4-21-92
Location: RM-6

Type: Radiological Monitoring Well (hydrologically downgradient from tailings impoundment).

Radionuclide	Gross Concentration and Error Estimate (uCi/ml)	LLD (uCi/ml)
U-Nat	1.80 E-9	3 E-13
Ra-226	0.40 E-9 ± 0.30 E-9	2 E-10

Date: 4-21-92
Location: RM-6

CHEMICAL PARAMETER	CONCENTRATION (mg/l)	LLD (mg/l)
As	0.003	0.001
Se	0.002	0.001
pH	8.30 pH units	0.1 pH units
Chloride	7	1.0