



Rio Algom

Rio Algom Mining Corp.
P.O. Box 1390
Glenrock, Wyoming 82637 307.358.3744 tel
762 Ross Road 307.266.2449 tel
Douglas, Wyoming 82633 307.358.9201 fax

Certified Mail-7099 3220 0002 1633 0140
Return Receipt Requested

August 29, 2001

Mr. Melvyn Leach
Fuel Cycle Licensing Branch
C/O Document Control Desk, Division of Fuel Cycle Safety and Safeguards,
Office of Nuclear Materials Safety and Safeguards, U.S. NRC.
11545 Rockville Pike, Two White Flint North
Rockville, MD. 20852-2738

RE: Smith Ranch Facility
NRC License SUA-1548, Docket 40-8964
Semi-Annual Effluent Monitoring Report, January 1-June 30, 2001

Dear Mr. Leach:

Please find attached the Semi-Annual Effluent Monitoring Report for January 1, 2001 through June 30, 2001, as required pursuant to Smith Ranch License condition 11.1.

During this reporting period there were no areas of concern. If you have any questions regarding the report, please feel free to contact me at (307) 358-3744, ext. 62.

Sincerely,

John W. Cash
Manager EHS & Regulatory Affairs

Cc: B. Ferdinand-w/attachments (RAMC/SRP)
M. Freeman-w/ attachments (RAMC/OKC)
P. Goranson-w/attachments (RAMC/OKC)
S. Ingle-w/attachments (WDEQ/Cheyenne)
Certified Mail-7099 3220 0002 1633 0157
J. Lusher-w/attachments (NRC)
USNRC Region IV-w/attachments (Arlington)
Certified Mail-7099 3220 0002 1633 0164
file

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**RIO ALGOM MINING CORP.
SEMI-ANNUAL EFFLUENT MONITORING REPORT
SMITH RANCH FACILITY
JANUARY 1 THROUGH JUNE 30, 2001**

**NRC - LICENSE SUA-1548, DOCKET 40-8964
WDEQ/LQD - PERMIT TO MINE #633**

**RIO ALGOM MINING CORP.- SMITH RANCH FACILITY
SEMI-ANNUAL EFFLUENT MONITORING REPORT
JANUARY 1 THROUGH JUNE 30, 2001**

EFFLUENT MONITOR REPORT

The Smith Ranch license, specifically condition 11.1, describes the effluent and environmental monitoring program for the facility. Accordingly, pursuant to 10 CFR §40.65, license condition 11.1, and the parameters from Table 5.3 from the March 31, 1988, license application as amended, the effluent and monitoring results for this semi-annual period are provided.

I. Commercial Operation Data-Injection Rates, Pipeline Pressures, and Injection Manifold Pressures

Presented in the tables below are the average injection rates, pipeline pressures, and injection manifold pressures as required by condition 11.1.

Injection Rates
(average gallons per minute)

MONTH	WF#1 IC FLOW	WF#3 IC FLOW	WF#4 IC FLOW	WF#4A IC FLOW
JAN.	879.49	1698.32	1943.00	0.00
FEB.	903.24	1701.84	1542.29	490.03
MAR.	621.88	1692.34	1343.05	474.94
APR.	754.78	1501.12	1630.06	576.43
MAY	748.87	1570.20	2240.73	560.49
JUN.	706.53	1599.73	2406.39	1014.71

Pipeline Pressures
(pounds per square inch)

MONTH	CPP PC PRESSURE	CPP IC PRESSURE	SAT PC PRESSURE	SAT IC PRESSURE
JAN.	65	159	74	130
FEB.	54	145	84	130
MAR.	64	144	90	125
APR.	67	151	59	93
MAY	92	158	79	115
JUN.	103	152	81	113

Injection Manifold Pressures
(pounds per square inch)

MONTH	WF#1 INJECTION PRESSURE	WF#3 INJECTION PRESSURE	WF#4 INJECTION PRESSURE	WF#4A INJECTION PRESSURE
JAN.	102	101	130	N/A
FEB.	95	119	120	109
MAR.	92	123	114	133
APR.	80	97	117	135
MAY	102	121	119	134
JUN.	94	122	102	107

*This is the injection pressure at the manifold. Injection pressure at the individual wellhead is less due to pressure loss through manifold system, pipelines and filters.

II. Air Sampling

A. Particulates

Pursuant to license condition 11.1 as defined by Table 5.3, air particulates monitoring is performed by continuous air samplers at the nearest downwind residence (Vollman Ranch), downwind of the restricted area boundary (fence line), and an upwind location (Dave's Water Well). Monitoring is required to be conducted quarterly.⁽¹⁾ The results from this quarterly monitoring are presented below.

Vollman Ranch

PARAMETER	1 ST QUARTER			2 ND QUARTER		
	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)
U _{NAT}	1.53E-15	1.00E-16	N/A	1.76E-15	1.00E-16	N/A
Th-230	1.81E-16	1.00E-16	0.00E+0	1.05E-15	1.00E-16	4.87E-16
Ra-226	7.23E-16	1.00E-16	2.71E-16	6.49E-15	1.00E-16	5.68E-16
Pb-210	1.02E-12	2.00E-15	4.29E-14	3.71E-13	2.00E-15	9.33E-15

⁽¹⁾ Samples collected monthly and composited quarterly.

Dave's Water Well

	1 ST QUARTER			2 ND QUARTER		
PARAMETER	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)
U _{NAT}	1.54E-15	1.00E-16	N/A	1.19E-15	1.00E-16	N/A
Th-230	3.02E-16	1.00E-16	0.00E+0	1.85E-16	1.00E-16	0.00E+0
Ra-226	1.06E-15	1.00E-16	4.54E-16	3.61E-15	1.00E-16	4.63E-16
Pb-210	7.67E-13	2.00E-15	5.11E-14	3.32E-13	2.00E-15	9.73E-15

*Dave's Water Well is the upwind or background monitoring location. The elevated Pb-210 values are likely caused by a nearby coal-fired power plant as well as an active strip coal mine.

Fence Line

	1 ST QUARTER			2 ND QUARTER		
PARAMETER	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)
U _{NAT}	9.02E-15	1.00E-16	N/A	2.09E-14	1.00E-16	N/A
Th-230	1.67E-16	1.00E-16	0.00E+0	1.50E-15	1.00E-16	6.66E-16
Ra-226	1.42E-15	1.00E-16	3.33E-16	6.49E-15	1.00E-16	5.83E-16
Pb-210	5.89E-13	2.00E-15	3.23E-14	3.51E-13	2.00E-15	9.24E-15

B. Radon

Pursuant to license condition 11.1 as defined by Table 5.3, radon is monitored by continuous samplers (track etch) at the nearest downwind residence (Vollman Ranch), downwind of the restricted area boundary (fence line), and an upwind location (Dave's Water Well). Monitoring is required to be conducted quarterly. The results indicate the values continue to be indistinguishable and within the sphere of background. Accordingly, Rio Algom to show compliance with the provisions of 10 CFR §1301, uses the provisions provided in 10 CFR §1302(b)(1).

Vollman Ranch⁽²⁾

	1 st Quarter	2 nd Quarter
Parameter	Conc. (μ Ci/ml)	Conc. (μ Ci/ml)
Radon	9.0E-10	10.0E-10

⁽²⁾ NVLAP Vendor does not provide percent error or lower level of detection.

Dave's Water Well

	1 st Quarter	2 nd Quarter
Parameter	Conc. ($\mu\text{Ci/ml}$)	Conc. ($\mu\text{Ci/ml}$)
Radon	8.0E-10	14.0E-10

Fence Line

	1 st Quarter	2 nd Quarter
Parameter	Conc. ($\mu\text{Ci/ml}$)	Conc. ($\mu\text{Ci/ml}$)
Radon	12.0E-10	15.0E-10

III. Water

A. Groundwater

The groundwater monitoring program requires operating livestock or domestic wells within 1 kilometer of operating wellfields be sampled quarterly for natural uranium and radium-226. Vollman's Pond and Smith Windmill #1 are within 1 kilometer of wellfield #1 and Smith's Windmill #2 and the Solar Pump are within 1 kilometer of wellfield #3. There are no livestock or domestic wells within 1 kilometer of wellfield #4. The results of the quarterly samples for the operating livestock wells are presented in the table below.

Local Groundwater Wells

	1 st Quarter		2 nd Quarter	
Location	Unat ($\mu\text{Ci/ml}$)	Ra-226 ($\mu\text{Ci/ml}$)	Unat ($\mu\text{Ci/ml}$)	Ra-226 ($\mu\text{Ci/ml}$)
Vollman Pond	2.71E-10	<2.0E-10	3.39E-10	2.9E-9
Smith Pond	1.02E-9	<2.0E-10	NO WATER	NO WATER
Smith's Windmill #1	2.84E-8	1.70E-9	3.05E-9	2.10E-9
Smith's Windmill #2	2.71E-8	3.30E-9	5.48E-9	6.0E-10
Solar Pump	NO WATER	NO WATER	5.42E-10	9.0E10

B. Surface Water

The surface water monitoring program requires two (2) samples from Sage Creek and one (1) sample from the outfall of the treatment plant. Each is on a quarterly basis. The Sage Creek samples are to be taken upstream and downstream from the restricted areas when flow is available in the creek.

During the 1st and 2nd quarter of the report period, there was no flow in Sage Creek and therefore, no analytical results are available. There was no flow above the restricted area during either quarter. In regards to the outfall from the treatment plant, upon commencement of commercial operations, the discharge is routed to the facility's central processing plant and disposed through the UIC permitted disposal well. Thus, there was no discharge from the outfall during the report period. The NPDES reporting for this outfall is presented in Appendix A.

Sage Creek Sample Results

	1 st Qtr.		2 nd Qtr.	
Sample Location	Unat ($\mu\text{g/ml}$)	Ra226 ($\mu\text{Ci/ml}$)	Unat ($\mu\text{g/ml}$)	Ra226 ($\mu\text{Ci/ml}$)
Below Restricted Area	No Flow	No Flow	No Flow	No Flow
Above Restricted Area	No Flow	No Flow	No Flow	No Flow

IV. Soil

Soil sampling is conducted annually at the downwind air sampling station. A sample will be taken during the second half of the calendar year with the results presented in the July 1 through December 31 Semi-Annual Effluent Report.

Soil Sample Result

Location	U _{nat} pCi/g	Ra ₂₂₆ pCi/g	Pb ₂₁₀ pCi/g
Downwind of Air Sampling Station	NA	NA	NA

V. Vegetation

Vegetation sampling is performed annually at the downwind air sampling station. The sampling will be performed during the second half of the calendar year with the results reported in the July 1 through December 31, 2001 Semi-Annual Effluent Report.

Vegetation Sample Result

Location	U _μ Ci/Kg	Ra _{226μ} Ci/Kg	Th _{230μ} Ci/Kg	Pb _{210μ} Ci/Kg
Downwind of Air Sampling Station	NA	NA	NA	NA

VI. Direct Radiation

Direct radiation readings are measured at the three (3) air monitoring stations, downwind of the evaporation pond, and at each wellfield using dosimeter badges on a quarterly basis. Provided in the table below are the results from those measurements.

Direct Radiation (μR/hr)

Location	1 st Quarter	2 nd Quarter
Vollman Ranch	16.6	15.2
Fence Line	20.6	17.8
Dave's Water Well	15.4	14.3
Wellfield #1	18.2	17.4
Wellfield #3	16.6	16.5
Wellfield #4	18.6	16.5
Wellfield #4A	17.4	13.9
Pond	19.0	18.2

*Background has not been subtracted from the above readings. Dave's Water Well is the background.

VII. Stack Sampling

As constructed, there are no effluent stacks from the yellowcake vacuum dryers. Accordingly, there is no stack sampling of the yellowcake dryer.

VIII. Other Effluent Monitoring Results

A. Gamma Radiation Survey

During "Deferred Production Status" of the O-Sand Pilot area, gamma radiation was measured quarterly at the following four (4) locations. Please note that with the initiation of commercial operations in wellfield #3 on August 10, 1998, the "Deferred Production Status" monitoring requirements are no longer required. Although, not required, measurements obtained during the 1st and 2nd quarter are presented in the table below.

Deferred Production Status Direct Radiation Measurements

Location	1 st Quarter (μ R/Hr)	2 nd Quarter (μ R/Hr)
Downwind of Radon Sampling Location	27	24
Upwind of Process Plant	18	18
Process Leach Tank	29	32
Evaporation Ponds	27	45

APPENDIX A



Rio Algom

Rio Algom Mining Corp.
P.O. Box 1390
Glenrock, Wyoming 82637 307.358.3744 tel
762 Ross Road 307.266.2449 tel
Douglas, Wyoming 82633 307.358.9201 fax

April 20, 2001

Certified Mail - 7099 3220 0002 1632 0141
Return Receipt Requested

Mr. Chris Abernathy
Department of Environmental Quality
Water Quality Division
Herschler Building
122 West 25th street
Cheyenne, WY 82002

RE: 1st Quarter 2001 NPDES Discharge Monitoring Report

Dear Mr. Abernathy:

Attached are the Discharge Monitoring Reports for the Smith Ranch Facility, Permit Number WY-0022411 for the first quarter of 2001.

There was **"No Discharge"** from either discharge point during the quarter.

Sincerely,

John W. Cash
Manager EHS and Regulatory Affairs

xc: B. Ferdinand-w/ attachments
M. Freeman-w/o attachments
P. Goranson-w/ attachments
file-w/ attachments

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME RIO ALGOM MINING CORPORATION
ADDRESS P O BOX 1390
GLENROCK WY 82637-1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

WY0022411
PERMIT NUMBER

001 Q
DISCHARGE NUMBER

(SUBR 04)
F - FINAL
MINOR

Form Approved
OMB No. 2040-10845
Expires 9-30-91

FACILITY Smith Ranch
LOCATION 762 Ross Road, Douglas, WY 82633
ATTN: ~~ROBERT EXX~~ BLACKSTONE Bill Ferdinand

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2001	01	01		2001	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE [XX] ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPL TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
PH		*****	*****		NO DISCHARGE	*****	NO DISCHARGE	(12)					
00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU				QTRLY	GRAB
ZINC, TOTAL (AS ZN)		*****	*****		NO DISCHARGE		NO DISCHARGE	(19)					
01092 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT	*****	*****	****	0.5 MX MO AV	REPORT MX WK AV	1.0 DAILY MX	MG/L				QTRLY	GRAB
SELENIUM, TOTAL (AS SE)		*****	*****		NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	(19)					
01147 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT	*****	*****	****	0.05 MX MO AV	REPORT MX WK AV	0.10 DAILY MX	MG/L				QTRLY	GRAB
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)						TELEPHONE		DATE			
R.P. Luke - President													
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						307	358-3744	01	04	2	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
SAMPLES SHALL BE TAKEN FROM THE FINAL TREATMENT UNIT AND PRIOR TO ADMIXTURE WITH DILUENT WATER.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME RIO ALGOM MINING CORPORATION
ADDRESS P O BOX 1390
GLENROCK WY 82637-1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)
WY0022411
PERMIT NUMBER

003 Q
DISCHARGE NUMBER

(SUBR 04)
F - FINAL
MINOR

Form Approved
OMB No. 2040-10345
Expires 9-30-91

FACILITY Smith Ranch
LOCATION 762 Ross Road, Douglas, WY 82633
ATTN: ~~ROBERT XXXXXXXXXXXX~~ Bill Ferdinand

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
20 01 01 01 20 01 03 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

*** NO DISCHARGE ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS	
PH	SAMPLE MEASUREMENT	*****	*****		NO DISCHARGE	*****	NO DISCHARGE	(12)				
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		QTRLY GRAB		
BICARBONATE ION- (AS HCO3)	SAMPLE MEASUREMENT	*****	*****		NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	(19)				
00440 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	REPORT MX MO AV	REPORT MX WK AV	4500 DAILY MX	MG/L		QTRLY GRAB		
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	NO DISCHARGE	(19)				
FREON EXTR-GRAV METH	PERMIT REQUIREMENT	*****	*****	****	*****	*****	10 DAILY MX	MG/L		CONTINUOUS		
00556 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	(19)				
SODIUM, TOTAL (AS NA)	PERMIT REQUIREMENT	*****	*****	****	REPORT MX MO AV	REPORT MX WK AV	1500 DAILY MX	MG/L		QTRLY GRAB		
00929 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	(19)				
CHLORIDE (AS CL)	PERMIT REQUIREMENT	*****	*****	****	REPORT MX MO AV	REPORT MX WK AV	750 DAILY MX	MG/L		QTRLY GRAB		
00940 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	(19)				
ARSENIC, TOTAL (AS AS)	PERMIT REQUIREMENT	*****	*****	****	REPORT MX MO AV	REPORT MX WK AV	REPORT DAILY MX	MG/L		QTRLY GRAB		
01002 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	(19)				
SELENIUM, TOTAL (AS SE)	PERMIT REQUIREMENT	*****	*****	****	REPORT MX MO AV	REPORT MX WK AV	REPORT DAILY MX	MG/L		QTRLY GRAB		
01147 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	(19)				
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)				Bill Ferdinand			TELEPHONE		DATE		
R.P. Luke - President					SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			307 358-3744	01 04 20			
TYPED OR PRINTED								AREA CODE	NUMBER	YEAR	MO	DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SAMPLES SHALL BE TAKEN FROM THE FINAL TREATMENT UNIT AND PRIOR TO ADMIXTURE WITH DILUENT WATER.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
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ADDRESS P O BOX 1390
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
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PERMIT NUMBER DISCHARGE NUMBER

Form Approved
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FACILITY Smith Ranch
LOCATION 762 Ross Road, Douglas, WY 82633

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
2001 01 01 2001 03 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

*** NO DISCHARGE [XX] ***
NOTE: Read instructions before completing this form.

ATTN: ~~ROBERT XXXXBLACKSTONE~~ Bill Ferdinand

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPL TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	NO DISCHARGE	NO DISCHARGE	(03)	*****	*****	*****						
	PERMIT REQUIREMENT	REPORT MX MO AV	REPORT DAILY MX	MGD	*****	*****	*****	****		CONTIN	TOTAL		
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
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	PERMIT REQUIREMENT												
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R.P. Luke - President						307 358-3744		01	04	2			
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE		NUMBER			YEAR	MO	D.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SAMPLES SHALL BE TAKEN FROM THE FINAL TREATMENT UNIT AND PRIOR TO ADMIXTURE WITH DILUENT WATER.



Rio Algom

Rio Algom Mining Corp.
P.O. Box 1390
Glenrock, Wyoming 82637 307.358.3744 tel
762 Ross Road 307.266.2449 tel
Douglas, Wyoming 82633 307.358.9201 fax

Certified Mail - 7099 3220 0002 1632 0363
Return Receipt Requested

July 11, 2001

Mr. Chris Abernathy
Department of Environmental Quality
Water Quality Division
Herschler Building, 4 West
122 West 25th Street
Cheyenne, WY 82002

RE: 2nd Quarter 2001 NPDES Discharge Monitoring Report

Dear Mr. Abernathy:

Attached are the Discharge Monitoring Reports for the Smith Ranch Facility, Permit Number WY-0022411 for the second quarter of 2001.

There was **"No Discharge"** from either discharge point during the quarter.

Sincerely,

John W. Cash
Manager EHS and Regulatory Affairs

xc: B. Ferdinand-w/ attachments
M. Freeman-w/o attachments
P. Goranson-w/ attachments
file-w/ attachments

Rio Algom Mining Corporation
PO Box 1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

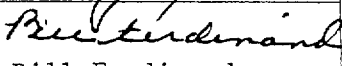
Glenrock WY 826371390

PERMIT NUMBER	DISCHARGE NUMBER	NO DISCHARGE
WY0022411	001Q	XXXXXXX

Bill Ferdinand
Bill Smith Uranium Mine
S36.T36N,R74W

MONITORING PERIOD
From 4/1/01 to 6/30/01

PARAMETER	Quantity or Loading			Quality or Concentration				FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		
Dissolved Radium 226 4/1/01 through 4/30/01			n/a	No Discharge 3.0 Monthly Average		No Discharge 10.0 Daily Max	mg/l	Monthly	Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Dissolved Radium 226 5/1/01 through 5/31/01			n/a	No Discharge 3.0 Monthly Average		No Discharge 10.0 Daily Max	mg/l	Monthly	Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Dissolved Radium 226 6/1/01 through 6/30/01			n/a	No Discharge 3.0 Monthly Average		No Discharge 10.0 Daily Max	mg/l	Monthly	Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Oil And Grease (Visual) 4/1/01 through 4/30/01			n/a			No Discharge 10.0 Daily Max	mg/l	Daily	Visible Sheen
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.									

NAME TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AN AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fine up to \$10,000 an or maximum imprisonment of between 6 months and 5 years.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE
R.P. Luke/President			307/358-3744
		Bill Ferdinand	DATE 07/11/01

Rio Algom Mining Corporation
PO Box 1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER	DISCHARGE NUMBER	NO DISCHARGE
WY0022411	001Q	XXXXXXXX

Bill Ferdinand

MONITORING PERIOD

Bill Smith Uranium Mine

From 4/1/01 to 6/30/01

S36,T36N,R74W

PARAMETER	Quantity or Loading			Quality or Concentration				FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		
Oil And Grease (Visual) 5/1/01 through 5/31/01	n/a	n/a	n/a	n/a	n/a	No Discharge 10 Daily Max	mg/l	Daily	Visible Sheen
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.									
Oil And Grease (Visual) 6/1/01 through 6/30/01	n/a	n/a	n/a	n/a	n/a	No Discharge 10 Daily Max	mg/l	Daily	Visible Sheen
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.									
pH 4/1/01 through 6/30/01	n/a	n/a	n/a	No Discharge 6.0 Minimum	n/a	No Discharge 9.0 Maximum	SU	Quarterly	Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Selenium 4/1/01 through 6/30/01	n/a	n/a	n/a	No Discharge 0.05 Monthly Average	n/a	No Discharge 0.10 Daily Max	mg/l	Quarterly	Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									

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R.P. Luke/President		Bill Ferdinand	307/358-3744
			DATE
			07/11/01

PARAMETER	Quantity or Loading			Quality or Concentration			FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM		
Total Flow 4/1/01 through 4/30/01	No Discharge Report	No Discharge Report	MGD	n/a	n/a	n/a	Continuous	Daily Total
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Flow 5/1/01 through 5/31/01	No Discharge Report	No Discharge Report	MGD	n/a	n/a	n/a	Continuous	Daily Total
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Flow 6/1/01 through 6/30/01	No Discharge Report	No Discharge Report	MGD	n/a	n/a	n/a	Continuous	Daily Total
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Suspended Solids 4/1/01 through 4/30/01	n/a	n/a	n/a	No Discharge 20 Monthly Averages	No Discharge n/a	No Discharge 30 Daily Max	Weekly	Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								

PARAMETER	Quantity or Loading			Quality or Concentration			FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM		
Total Suspended Solids 5/1/01 through 5/31/01			n/a	No Discharge		No Discharge	mg/l	
	n/a	n/a		20 Monthly Average	n/a	30 Daily Max		Weekly Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Suspended Solids 6/1/01 through 6/30/01			n/a	No Discharge		No Discharge	mg/l	
	n/a	n/a		20 Monthly Average	n/a	30 Daily Max		Weekly Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Uranium (as U) 4/1/01 through 4/30/01			n/a	No Discharge		No Discharge	mg/l	
	n/a	n/a		20 Monthly Average	n/a	40 Daily Max		Monthly Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Uranium (as U) 5/1/01 through 5/31/01			n/a	No Discharge		No Discharge	mg/l	
	n/a	n/a		20 Monthly Average	n/a	40 Daily Max		Monthly Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								

Rio Algom Mining Corporation
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Glenrock WY 826371390

Bill Ferdinand
Bill Smith Uranium Mine
S36.T36N,R74W

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER
WY0022411

DISCHARGE NUMBER
001Q

NO DISCHARGE
XXXXXXXX

MONITORING PERIOD
From 4/1/01 to 6/30/01

PARAMETER	Quantity or Loading			Quality or Concentration			FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM		
Total Uranium (as U) 6/1/01 through 6/30/01			n/a	No Discharge 2.0 Monthly Average		No Discharge 4.0 Daily Max	mg/l	Monthly Grab

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Zinc 4/1/01 through 6/30/01			n/a	No Discharge 0.5 Monthly Average		No Discharge 1.0 Daily Max	mg/l	Quarterly Grab
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Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. P. Luke/President

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

Bill Ferdinand

TELEPHONE
307/358-3744

DATE
07/11/01

Rio Algom Mining Corporation
PO Box 1390

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DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

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WY0022411	003Q	XXXXXX

Bill Ferdinand

Bill Smith Uranium Mine

S36.T36N.R74W

MONITORING PERIOD

From 4/1/01 to 6/30/01

PARAMETER	Quantity or Loading			Quality or Concentration				FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		
Bicarbonate			n/a			No Discharge	mg/l		
4/1/01 through 6/30/01	n/a	n/a		n/a	n/a	4500 Daily Max		Quarterly	Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Chlorides			n/a			No Discharge	mg/l		
4/1/01 through 6/30/01	n/a	n/a		n/a	n/a	750 Daily Max		Quarterly	Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Oil And Grease (Visual)			n/a			No Discharge	mg/l		
4/1/01 through 4/30/01	n/a	n/a		n/a	n/a	10		Daily	Visible Sheen
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.									
Oil And Grease (Visual)			n/a			No Discharge	mg/l		
5/1/01 through 5/31/01	n/a	n/a		n/a	n/a	10		Daily	Visible Sheen
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.									

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TELEPHONE

307/358-3744

DATE

07/11/01

PARAMETER	Quantity or Loading			Quality or Concentration			FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM		
Oil And Grease (Visual) 6/1/01 through 6/30/01			n/a			No Discharge	mg/l	
	n/a	n/a		n/a	n/a	10		Daily Visible Sheen
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.								
pH 4/1/01 through 6/30/01			n/a			No Discharge	SU	
	n/a	n/a		6.0 Minimum	n/a	8.0 Maximum		Quarterly Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Selenium 4/1/01 through 6/30/01			n/a			No Discharge	mg/l	
	n/a	n/a		Report	n/a	Report		Quarterly Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Sodium 4/1/01 through 6/30/01			n/a			No Discharge	mg/l	
	n/a	n/a		n/a	n/a	1500 Daily Max		Quarterly Grab
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								

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DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER
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003Q

NO DISCHARGE
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MONITORING PERIOD
From 4/1/01 to 6/30/01

PARAMETER	Quantity or Loading			Quality or Concentration				FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		
Total Arsenic 4/1/01 through 6/30/01			n/a			No Discharge Report	ug/l		
	n/a	n/a		n/a	n/a			Quarterly	Grab

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Flow 4/1/01 through 4/30/01	No Discharge Report	No Discharge Report	MGD				n/a		
				n/a	n/a	n/a		Continuous	Daily Total

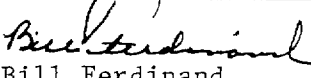
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Flow 5/1/01 through 5/31/01	No Discharge Report	No Discharge Report	MGD				n/a		
				n/a	n/a	n/a		Continuous	Daily Total

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Flow 6/1/01 through 6/30/01	No Discharge Report	No Discharge Report	MGD				n/a		
				n/a	n/a	n/a		Continuous	Daily Total

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

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R.P. Luke/President		 Bill Ferdinand	307/358-3744
			DATE
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