

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

307.266.2449 tel

Certified Mail - 7099 3220 0002 1631 1019 **Return Receipt Requested**

August 29, 2000

Mr. Phillip Ting Acting Branch Chief U.S. Nuclear Regulatory Commission Division of Low Level Waste Mgt. & Decommissioning Mail Stop T7J8 11555 Rockville Pike Rockville, MD 20850

RE:

Smith Ranch Facility

NRC License SUA-1548. Docket 40-8964

Semi-Annual Effluent Monitoring Report, January 1 - June 30, 2000

Dear Mr. Ting:

Please find attached the Semi-Annual Effluent Monitoring Report for January 1, 2000 through June 30, 2000, as required pursuant to Smith Ranch License condition 11.5 and 12.2.

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

xc:

B. Ferdinand-w/attachments (RAMC/SRP)

M. Freeman-w/o attachments (RAMC/OKC)

P. Goranson-w/attachments (RAMC/OKC)

S. Ingle-w/attachments (WDEQ/Cheyenne) -

Certified Mail -7099 3220 0002 1631 1002

NRC (Director, Division of Radiation Safety and Safeguards/Arlington)

w/attachments- Certified Mail - 7099 3220 0002 1631 1026

file

RIO ALGOM MINING CORP. SEMI-ANNUAL EFFLUENT MONITORING REPORT SMITH RANCH FACILITY JANUARY 1 THROUGH JUNE 30, 2000

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, 2000

EFFLUENT MONITOR REPORT

The Smith Ranch license, specifically condition 12.2, describes the effluent and environmental monitoring program for the facility. Accordingly, pursuant to 10 CFR §40.65, license condition 12.2, 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. <u>Commercial Operation Data-Injection Rates, Recovery Rates and Injection Manifold</u> <u>Pressures</u>

Presented in the table below are the average injection rates, recovery rates and injection manifold pressures as required by condition 12.2.

ltem	Wellfield #1	Wellfield #3	Wellfield #4	Total
Injection Rate Ave. (gpm)	688	2,855	1,274	4,817
Recovery Rate Ave. (gpm)	694	2,872	1,286	4,852
Injection Manifold Pressure Ave. (psi) ⁽¹⁾	100	98	132	

ll. <u>Air Sampling</u>

A. Particulates

Pursuant to license condition 12.2 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.⁽²⁾ The results from this quarterly monitoring are presented below.

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.

⁽²⁾ Samples collected monthly and composited quarterly.

Vollman Ranch

	1 ST Quarter			2 ND Quarter				
Parameter	Conc. (_µ Ci/ml)	LLD (_µ Ci/ml)	Error Estimate (µCi/ml)	% of ECL	Conc. (_µ Ci/ml)	LLD (_µ Ci/ml)	Error Estimate (µCi/mI)	% of ECL
U _{nat}	4.52E-15	1.00E-16	N/A	1.51E-1	4.05E-15	1.00E-16	N/A	0.14E+00
Th-230	1.63E-16	1.00E-16	0.00E+0	0.82E+00	1.67E-16	1.00E-16	0.00E+0	0.84E+00
Ra-226	1.63E-16	1.00E-16	0.00E+0	1.81E-02	1.08E-15	1.00E-16	3.33E-16	1.20E-1
Pb-210	3.94E-13	2.00E-15	1.60E-14	6.57E+01	2.62E-13	2.00E-15	1.34E-14	4.37E+01

Dave's Water Well⁽³⁾

	Dave 5 Water Well							
	1 st Quarter				2 nd Quarter			
Parameter	Conc. (_µ Ci/ml)	LLD (_µ Ci/ml)	Error Estimate (µCi/ml)	% of ECL	Conc. (_µ Ci/ml)	LLD (_μ Ci/ml)	Error Estimate (µCi/mI)	% of ECL
U _{nat}	4.38E-15	1.00E-16	N/A	1.46E-01	2.64E-15	1.00E-16	N/A	8.80E-2
Th-230	3.81E-16	1.00E-16	0.00E+0	1.91E+00	2.11E-16	1.00E-16	0.00E+0	1.06E+00
Ra-226	3.81E-16	1.00E-16	0.00E+0	4.23E-02	1.79E-15	1.00E-16	4.22E-16	1.99E-1
Pb-210	7.32E-13	2.00E-15	3.37E-14	1.22E+02	2.71E-13	2.00E-15	1.56E-14	4.51E+01

Fence Line

	1 ST Quarter			2 ND Quarter				
Parameter	Conc. (_µ Ci/ml)	LLD (_µ Ci/ml)	Error Estimate (µCi/ml)	% of ECL	Conc. (_µ Ci/ml)	LLD (µCi/ml)	Error Estimate (µCi/ml)	% of ECL
U _{nat}	2.81E-14	1.00E-16	N/A	9.37E-01	2.12E-14	1.00E-16	N/A	7.07E-01
Th-230	1.70E-16	1.00E-16	0.00E+0	8.50E-01	1.78E-15	1.00E-16	8.08E-16	8.90E+00
Ra-226	3.05E-15	1.00E-16	1.70E-16	3.39E-01	1.13E-14	1.00E-16	3.23E-16	1.26E+00
Pb-210	5.78E-13	2.00E-15	1.87E-14	9.63E+01	3.73E-13	2.00E-15	2.34E-14	6.22E+01

⁽³⁾ Daves 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.

B. Radon

Pursuant to license condition 12.2 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).

Vol	lman	Rand	h ⁽⁴⁾
VOL	man	Rano	

	1 st Quarter	2 nd Quarter
Parameter	Conc. (_µ Ci/ml)	Conc. (_µ Ci/ml)
Radon	5.0E-10	6.0E-10

Dave's Water Well

	1 st Quarter	2 nd Quarter
Parameter	Conc. (µCi/ml)	Conc. (_µ Ci/ml)
Radon	9.0E-10	8.0E-10

Fence Line

	1 st Quarter	2 nd Quarter
Parameter	Conc. (µCi/ml)	Conc. (_µ Ci/ml)
Radon	6.0E-10	1.9E-9

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.

⁽⁴⁾ NVLAP Vendor does not provide percent error or lower level of detection.

Local Groundwater Wells

	1 st Qu	arter	2 nd Q	uarter
Location	Unat (µCi/ml)	Ra-226 (_µ Ci/ml)	Unat (_µ Ci/ml)	Ra-226 (_µ Ci/ml)
Vollman Pond	9.88E-8	<2.0E-10	7.45E-10	<2.0E-10
Smith Pond	No Water	No Water	7.24E-9	1.3E-8
Smith's Windmill #1	2.36E-7	1.6E-9	2.63E-8	1.2E-9
Smith's Windmill #2	No Water	No Water	6.00E-8	6.0E-10
Solar Pump	5.35E-9	1.2E-9	5.08E-9	5.0E-10

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 (µg/ml)	Ra226 (µCi/ml)	Unat (µg/ml)	Ra226 (µCi/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	NA	NA	NA
Station			

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, 2000 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	NA	NA	NA	NA
Station				

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 TLD badges (thermoluminesent dosimeters) 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	9.8	9.0
Fence Line	11.8	10.8
Dave's Water Well	11.7	9.9
Wellfield #1	10.9	10.1
Wellfield #3	10.6	8.6
Wellfield #4	10.8	10.4
Pond	12.4	10.8

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	25	23							
Upwind of Process Plant	22	15							
Process Leach Tank	24	25							
Evaporation Ponds	50	58							

APPENDIX A



Rio Algom Mining Corp. P.O. Box 1390 Glenrock, Wyoming 82637 762 Ross Road Douglas, Wyoming 82633

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307.358.3744 tel 307.266.2449 tel 307.358.9201 fax

CERTIFIED MAIL - 7099 3220 0008 5206 1408 RETURN RECEIPT REQUESTED

April 5, 2000

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

Dear Mr. Abernathy:

Attached are the Discharge Monitoring Reports for the Smith Ranch Facility, Permit

Number WY-0022411 for the quarter ending March 31, 2000.

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

Sincerely,

John W. Cash Supervisor, Environmental Safety and Regulatory Affairs

xc:

B. Ferdinand - w/attachments M. Freeman - w/o attachments P. Goranson - w/attachments File - w/attachments

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DISCHARGE MONITORING REPORT (DMR) Facility Name/Location if different) RIO ALGOM MINING CORPORATION (17-19) Form Approved (2-16) (SUBR 04) 003 Q OMB No. 2040-000345 WY0022411 ADDRESSP O BOX 1390 DISCHARGE NUMBER F - FINAL PERMIT NUMBER Expires 9-30-91 WY 82637-1390 GLENROCK MINOR MONITORING PERIOD FACILITY Smith Ranch YEAR МО DAY YEAR DAY FROM 7000 *** NO DISCHARGE 7000 31 LOCATION 762 Ross Road, Douglas, WY 82633 UΙ $\mathbf{O}\mathbf{I}$ NOTE: Read instructions before completing this form. ROBERTY EXXXBLACKSTONE (26-27) (28-29) (30-31) (20-21) (22-23) (24-25) Bill Ferdinand QUALITY OR CONCENTRATION (3 Card Only) QUANTITY OR LOADING (4 Card Only) FREQUENCY SAMPLE NO. (54-61)(38-45) (46-53) OF ANALYSIS (54-61)(46-53)TYPE PARAMETER EX UNITS MUMIXAM (32-37)AVERAGE MAXIMUM UNITS MINIMUM (64-68) (69-70) (62-63)AVERAGE (12)***** ***** **** PH SAMPLE Grab ND 0 MEASUREMENT ND 9.0 O'ERLY SRAR 6 0 ***** *** 0 ***** **** l00400 PERMIT MUMIXAM SU REQUIREMENT *** MINIMIN GROSS VALUE EFFLUENT (19) ***** EICARBONATE ION-**** SAMPLE ND ND 0 Grab ND MEASUREMENT (AS HCO3) OTRLY RRPORT PRPORT 4500 CRAP ***** *** 00440 0 0 ***** PERMIT REQUIREMENT DAILY MX MG/I MX WK AV *** MX MO AV EFFLUENT GROSS VALUE (19)***** ***** ***** **** OIL AND GREASE SAMPLE ND Cont. Visual MEASUREMENT FREON EXTR-GRAV METI CONTINVISUAL 10 ***** ***** ***** *** ***** 00556 0 PERMIT REQUIREMENT DATLY MX MG/I HOHE **** EFFLUENT GROSS VALUE (19)**** SODIUM, TOTAL **** SAMPLE ND ND ND Grab MEASUREMENT (AS NA) OTRLY GRAE 1500 REPORT REPORT k*** ***** **** 100929 0 PERMIT REQUIREMENT DAILY MX MG/I MX WX AV *** MX MO AT EFFLUENT GROSS VALUE (19)***** **** CHLORIDE SAMPLE ND ND n Grab ND MEASUREMENT (AS CL) STRLY GRAB 750 REPORT REPORT ***** *** ***** 0 0 00940 1 PERMIT REQUIREMENT DAILY MX MG/L MX WK AV *** EFFLUENT GROSS VALUE 19) ***** ***** TOTAL ARSENIC. SAMPLE Grab ND. ND ND MEASUREMENT (AS AS) OTRI Y GRAF REPORT RRPORT RIDE/ORD ***** *** ***** 01002 0 0 1 DAILY MX MG/L REQUIREMENT *** MX MO AU EFFLUENT GROSS VALUI (19)***** TOTAL ***** SELENIUM, SAMPLE Grab ND ND ND MEASUREMENT (AS SE) DTRLY CRAR REPORT ERRE O RAI PRECEN ***** *** ***** 01147 1 0 - 0 PERMIT DAILY MX MG/L REQUIREMENT 14.0 MO AV *** EFFLUENT GROSS VALU CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED TELEPHONE DATE NAME/TITLE PRINCIPAL EXECUTIVE OFFICER AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED Bucc 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 SIG Bill Ferdinand NIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION. INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. \$ 1001 AND 05 358-3744 2000 04 SIGNATURE OF PRINCIPAL EXECUTIVE R.P. Luke/President 33 USC \$ 1319. (Penalties under these statutes may include fines up to \$10,000 DAY OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO and or maximum imprisonment of between 6 months and 5 years. TYPED OR PRINTED 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.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

EPA Form 3320-1 (Rev. 9-88) Previous editions may be used.

PERMITTEE NAME/ADDRESS (Include

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

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Certified Mail - 7099 3220 0008 5206 1712 **Return Receipt Requested**

July 11, 2000

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

Dear Mr. Abernathy:

Attached are the Discharge Monitoring Reports for the Smith Ranch Facility, Permit Number WY-0022411 for the quarter ending June 30, 2000.

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

Sincerely.

John Cash Supervisor, Environmental and Regulatory Affairs

Attachments: As stated

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

file-w/ attachments

Rio Algom Mining Corp. P.O. Box 1390 Glenrock, Wyoming 82637 762 Ross Road Douglas, Wyoming 82633

307.358.3744 tel 307.266.2449 tel 307.358.9201 fax

Form Approved (17-19) MINING CORPORATION (2-16) RIO ALGOM OMB No. 2040-100445 003 A (SURR 04) WY0022411 ADDRESS P O BOX 1390 DISCHARGE NUMBER F - FINAL Expires 9-30-91 PERMIT NUMBER WY 82637-1390 GLENROCK MINOR MONITORING PERIOD Smith Ranch Project YEAR DAY FACILITY MO DAY YEAR *** NO DISCHARGE XXXX FROM TO 30 7000 OH 700 O ()41 $\mathbf{o}_{\mathbf{I}}$ LOCATION 762 Ross Road Douglas WY 82633 NOTE: Read instructions before completing this form. (30-31) (26-27) (28-29) (22-23) (24-25) (20-21) ATTN: QUALITY OR CONCENTRATION (3 Card Only) QUANTITY OR LOADING (4 Card Only) FREQUENCY SAMPLE NO. (46-53)(54-61)(38-45)OF ANALYSIS TYPE (54-61)(46-53) EX PARAMETER MAXIMUM UNITS UNITS (32-37)MINIMUM AVERAGE (64-68) (69-70) MAXIMUM (62-63) AVERAGE (12)***** ***** ***** PH SAMPLE 0 Grab MEASUREMENT NN 9 0 **GTRLY** CRAP 8.0 **k***** ***** 0 ***** ***** 0 00400 1 PERMIT REQUIREMENT SU MAXIMUM MINIMIM 水水水水 EFFLUENT GROSS VALUE (19)***** ***** PICARBONATE ION-SAMPLE ND Grab ND MEASUREMENT (AS HCO3) 4500 OTFLY GRAFI REPORT REPORT *** ***** ***** 00440 Ö 0 PERMIT REQUIREMENT DAILY MX MG/L MY MO AV MX WK AV 米米米米 rffluent gross value ***** ***** (19)***** **** AND GREASE SAMPLE O Continuous Vis ND MEASUREMENT FREON EXTR-GRAV METH CONTINUISUAL 10 ***** ***** ***** ***** *** 00556 0 Ω PERMIT REQUIREMENT UOUS DATLY MX MG/L **** EFFLUENT GROSS VALUE (19)***** SODIUM, TOTAL ***** SAMPLE Grab ND ND ND MEASUREMENT (AS NA) GRAB REPORT 1500 **GTRLY** REPORT ***** **** ***** 00929 1 0 () PERMIT REQUIREMENT DAILY MX MG/L MY WE AV MX MO AV **** EFFLUENT GROSS VALUE (19)**** **** JHLORI DE SAMPLE 0 ND - ND Grab ND MEASUREMENT (AS CL) QTRLY GRAB REPORT 750 REPORT ***** *** $0 \quad 0$ ***** 00940 1 PERMIT REQUIREMENT DATLY MX MG/L MX WH AV MX HO AV EFFLUENT GROSS VALUE *** (19)***** ***** ARSENIC. TOTAL SAMPLE ND ND n Grab ND MEASUREMENT (AS AS) GRAB REPORT REPORT PERMIT ***** *** EFFLUENT GROSS VALUE REGULARIMENT 01002 $0 \quad 0$ ***** DAILY MX MG/L MX WK AV MY MO AL 水水水水 (19) **** ***** TOTAL SELENIUM. SAMPLE MD 0 Grab ND ND MEASUREMENT (AS SE) WIRLY GRAB REPORT PRPORT REPORT ***** *** ***** EFFLUENT GROSS VALUE REGULARITEMENT 0 0 DATEY MX MG/L MX WK AV **** TELEPHONE DATE I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HERBIN AND BASED.
ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR ON MY INQUIRT OF INQUIRIONALS 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 Bill Ferdinand THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 U.S.C \$ 1001 AND 307 | 358 - 3744 | 2000 06 SIGNATURE OF PRINCIPAL EXECUTIVE Rob Luke/President 33 USC \$ 1319. (Penalties under these statutes may include fines up to \$10,000. AREA DAY OFFICER OR AUTHORIZED AGENT NUMBER MO and or maximum imprisonment of between 6 months and 5 years. TYPED OR PRINTED COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

EPA Form 3320-1 (Rev. 9-88) Previous editions may be used.

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

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

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