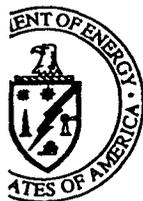


CORRES CONTROL
INCOMING LTR NO

00671 RF 99

DUE DATE
ACTION



Department of Energy

ROCKY FLATS FIELD OFFICE
P O BOX 928
GOLDEN COLORADO 80402-0928

JUN 21 1999

99-DOE-03631

2 JUN 99 1:5

REFS-CC

DIST	LTR	ENC
BENSUSSEN, S J		
BOGENBERGER, V		
BRAILSFORD, M D		
CARD, R G		
COSGROVE, M M		
COX, C M		
CRAWFORD, A C		
DEJONG, V J		
DERBY, S		
DIETERLE, S E		
FERRERA, D W		
FERRERA, K P		
FULTON, J C		
GERMAIN, A L		
HARDING, W A		
HARROUN, W P		
HEDAHL, T G		
LEONARD, R C		
LEWIS, M R		
MARTINEZ, L A		
NORTH, K		
PARKER, A M		
PHILLIPS, F J	X	
POLSTON, S		
RODGERS, A D		
SANDLIN, N B		
SHELTON, D C	X	
SPEARS, M		
TUOR, N R		
VOORHEIS, G M		
WARTHER, R F		
<i>Brooks, J</i>	X	
<i>Hill, G</i>	X	
<i>Thompson, B</i>	X	
<i>Moyle, K</i>	X	
<i>McKee, A</i>	X	

Mr Steve Gunderson
RFCA Project Coordinator
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South, OE-B2
Denver, Colorado 80246-1530

Mr Tim Rehder
Rocky Flats Project Manager
United States Environmental Protection Agency, Region VIII
999 18th Street, Suite 500
Denver, Colorado 80202-2466

Dear Mr Gunderson and Mr Rehder

The purpose of this letter is to provide notification of water-quality monitoring results at the Rocky Flats Cleanup Agreement (RFCA) Point of Evaluation (POE) surface-water monitoring station location GS10 in Walnut Creek above Pond B-1

Reportable 30-day average values for americium and plutonium were observed at GS10 during March and April 1999 Results are presented in Table 1 A word processing error resulted in erroneous deletion of some data in the flash brief dated June 9, 1999

Table 1 - RFCA POE GS10 Monitoring Location - 30-Day Average Calculated Values

Analyte	Dates of 30-Day Avg >0.15 pCi/L	First 30-Day Avg Value >0.15 pCi/L	Maximum 30-Day Avg Value (pCi/L), Date
Americium	3/30/99 - ? *	0.157	1.520, 4/14/99
Plutonium	4/7/99 - 4/22/99 4/26/99 - 4/28/99	0.154	0.245, 4/14/99

* Ending date of period of 30-day averages greater than 0.15 pCi/L will be specified once subsequent analytical data become available

Monitoring Results Downstream from GS10

Water flowing from GS10 is detained in Pond B-5 for pre-discharge sampling and analysis before direct discharge to Walnut Creek Late in February, a pre-discharge sample of Pond B-5 collected on February 24, 1999, (in preparation for the March 22 through April 5 direct discharge) produced analytical results of 0.006 pCi/L for

COR CONTROL	X	X
ADMN RECORD	X	
PATS/T130G		

Reviewed for Addressee
Corres Control RFP

6/22/99 *[Signature]*
Date By

Ref Ltr #

DOE ORDER # *[Signature]*

Mr Steve Gunderson
Mr Tim Rehder
99-DOE-03631

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JUN 21 1999

Source Evaluation Plan

RFCA requires the Site respond to these reportable results with a Source Evaluation Plan within 30 days, which ends on July 6, 1999

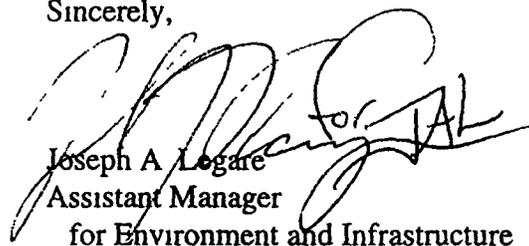
The Site's Source Evaluation Plan is to

- (1) continue monitoring,
- (2) review Site operations, environmental restoration, and demolition and decommissioning (D&D) activities to assess whether they may have impacted Site water-quality during the period when the 30-day Americium and Plutonium averages appear to be above 0.15 pCi/liter, and
- (3) continue the ongoing Actinide Migration Evaluations with regard to radionuclide transport in surface water

The Site will report the results of these efforts by July 30, 1999

If you have any questions regarding this transmittal, please contact me at 303-966-5918

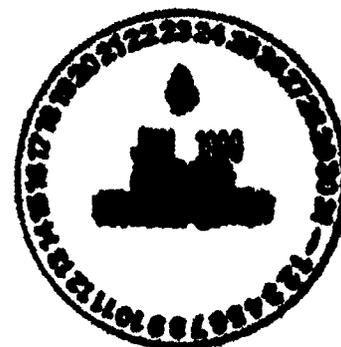
Sincerely,


Joseph A. Legare
Assistant Manager
for Environment and Infrastructure

cc

Administrative Record

J Rampe, DAMEI, RFFO
G Hill, EI, RFFO
J Stover, EI, RFFO
M McCann OCC, RFFO
D Shelton, K-H
L Brooks, K-H
J Hill, K-H
R Nininger, K-H
F Phillips, K-H
K Motyl, RMRS
R McPherson, RMRS
C Lyons, City of Arvada
R Hellbusch, City of Westminster
H Mahan, City of Broomfield



ADMIN RECCRD

plutonium and 0.036 pCi/L for americium. A subsequent Pond B-5 pre-discharge sample collected later on April 21 (in preparation for the April 26 through May 18 direct discharge) produced analytical results of 0.004 pCi/L for plutonium and 0.012 pCi/L for americium.

Further downstream, composited sample results received to date for RFCA Point of Compliance (POC) monitoring locations GS08 and GS03 from late March through early May are presented in Table 2.

Table 2 Downstream from GS10 Summary of Composited Sample Results

Location	Analyte	Sample Period	No of Composited Samples	Value Range (pCi/L)
GS08	Am Pu	3/25/99 - 5/06/99	5	-0.003 - 0.018 0.004 - 0.040
GS03	Am Pu	4/26/99 - 5/04/99	3	0.007 - 0.019 0.024 - 0.068

Monitoring Results Upstream from GS10

Analytical results received to date from the March through early May period for upstream locations are summarized in Table 3. Water sampled at GS10 originates from the southeast region of the Site's Industrial Area where several RFCA Performance and Source Location monitoring stations sample the upstream flows.

Table 3 Upstream from GS10 Summary of Composited Sample Results

Monitoring Station	Analyte	Sample Period	No of Composited Samples	Value Range (pCi/L)
GS27	Am Pu	3/12/99 - 5/01/99	6	0.173 - 1.43 0.731 - 5.89
GS38	Am Pu	4/13/99 - 5/01/99	4	0.008 - 0.072 0.061 - 0.135
GS39	Am Pu	4/15/99 - 5/04/99	4	0.018 - 0.092 -0.006 - 0.136
GS40	Am Pu	3/30/99 - 5/05/99	3	0.016 - 0.043 0.019 - 0.047
SW022	Am Pu	4/21/99 - 4/29/99	3	0.003 - 0.075 0.028 - 0.240