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CORRES. CONTROL
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00434 RF03

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ACTION



Department of Energy

MAY -7 P 2:16

ROCKY FLATS FIELD OFFICE
10808 HIGHWAY 93, UNIT A
GOLDEN, COLORADO 80403-8200

CORRESPONDENCE
CONTROL

03-DOE-00523

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DIST.	LTR	ENC
BERARDINI, J. H.	X	
BOGNAR, E. S.	X	
CROCKETT, G. A.		
DECK, C. A.	X	
DEGENHART, K. R.		
DIETER, T. J.		
DIETERLE, S. E.		
FERRERA, D. W.		
FERRI, M. S.		
GERMAIN, A. L.		
GIACOMINI, J. J.		
ISOM, J. H.		
LINDSAY, D. C.	X	
LONG, J. W.		
LYLE, J. L.		
MARTINEZ, L. A.	X	
NAGEL, R. E.	X	
NORTH, K.		
PARKER, A. M.	X	
POWERS, K. P.		
RODGERS, A. D.		
SHELTON, D. C.	X	
SPEARS, M. S.		
TRICE, K. D.		
TUOR, N. R.	X	
WILLIAMS, J. L.		
WININGER, R.	X	
BROOKS, L.	X	

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

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

Dear Mr. Gunderson and Mr. Rehder:

Pursuant to the *Rocky Flats Cleanup Agreement (RFCA), Attachment 5, Rocky Flats Environmental Technology Site Action Levels and Standards Framework for Surface Water, Groundwater, and Soils (ALF), Part 2.4A*, the Department of Energy, Rocky Flats Field Office (RFFO) is notifying you of water-quality monitoring results at the RFCA Point of Evaluation (POE) surface-water monitoring station location SW093, which is located in North Walnut Creek upstream of Pond A-1 in the Walnut Creek basin.

The calculated 30-day moving average for plutonium (Pu) triggered the reporting requirements under RFCA Attachment 5, Section 2.4 (B) for the period February 28, 2003 through March 21, 2003, using validated data. Additional data recently received, but not validated shows the event terminated on March 21, 2003 (for details, see Table 1), and beginning March 22, 2003, the 30-day moving average for Pu remained below reportable levels. The calculated 30-day moving average for americium-241 (Am) was below reportable levels during the same period. Analytical results for all samples that were used in the calculation are listed in Table 2. The RFFO gained knowledge of the reportable value on April 21, 2003. Preliminary written notification was provided to both agencies by email message on April 22, 2003.

Reportable Value Description

Table 1 - Reportable 30-Day Average Values for RFCA POE Monitoring Location SW093

Analyte	Dates of Reportable Value	Range of Reportable 30-day Avg. Values (pCi/L)
Plutonium	2/28/03 - 3/21/03	0.16 - 0.33

COB. CONTROL	X
ADMN. RECORD	X
PATS/130	

Reviewed for Addressee
Corres. Control RFP

5/7/03
Date By

Ref. Ltr. #

DOE ORDER #

NONE

ADMIN RECORD

BZ-A-000589

Y3

Table 2 – Validated Analytical Results for Composite Samples Collected at SW093 used in the 30-day average calculation for Americium.

Composite Sample Start Date	Americium Analytical Result (pCi/L)	Plutonium Analytical Results (pCi/L)
1/27/03	0.001	0.004
2/3/03	0.113	0.230
2/17/03	0.059	0.088
3/3/03	Result rejected through validation process	0.384
3/20/03 (not validated)	0.006	0.001

RFCA Reporting Protocol

To meet the Site's RFCA commitment, DOE must transmit this information to the Environmental Protection Agency (EPA) and the Colorado Department of Public Health and Environment (CDPHE) within the 15-day reporting period, which ends May 6, 2003. In addition, RFCA also requires that the DOE, within 30 days of gaining knowledge of the reportable results, submit to EPA and CDPHE a source evaluation plan and schedule addressing this reportable value. This plan must be transmitted by May 21, 2003. This letter serves as notification and addresses the requirement for a source evaluation plan and schedule.

Downstream Water Quality Monitoring

Water flowing through SW093 also passes through the lower A-series ponds (Ponds A-3 and A-4) and Walnut Creek before leaving the Site. RFCA Points of Compliance (POCs) GS11 (Pond A-4 outlet) and GS03 (Walnut Creek at Indiana Street) again monitor this water. Pond A-3 was batch discharged to Pond A-4 during the period March 18 to April 10, 2003. SW093 analytical results and the reportable 30-day average values were compared with those for pre-discharge samples collected from Pond A-4 prior to the March direct discharge and from RFCA POC monitoring stations GS11 and GS03 for that discharge (3/27 – 4/10/03). Pre-discharge monitoring results from Pond A-4 were below RFCA action levels. Analytical results from POC GS03 were below RFCA reporting thresholds for the period ending April 6, 2003. Discharge monitoring results for the first five composite samples from POC GS11 were below RFCA reporting thresholds for the period. Results for the remaining four samples had not been received as of May 5, 2003.

Recommendation

The findings and conclusions of prior Walnut Creek and SW093 source evaluations suggest that one or more low-level distributed actinide source areas exist within the SW093 subdrainage. These source evaluations concluded that ongoing RFETS activities (i.e., Decontamination and Decommissioning and ER projects, excavations, or other routine operations) did not contribute to increased contamination and reportable values. However, recent flume construction activities at SW093 and Site closure activities upstream of SW093 may have contributed to the recent reportable values.

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In consideration of past source evaluation findings and conclusions, DOE proposes the following in response to these reportable values at SW093:

- (1) Routine monitoring as required by RFCA and the Site Integrated Monitoring Plan will continue.
- (2) Routine data evaluation for SW093 will be included in the Water Year 2002 Automated Surface-Water Monitoring Report.
- (3) A more detailed source evaluation summary for SW093 will be included in the Water Year 2002 Automated Surface-Water Monitoring report using all available data.
- (4) The Site will pursue additional evaluations should they be warranted by item (3), or by continued observations of reportable values at SW093.

If you have any questions concerning this transmittal, please contact me at (303) 966-2282 or Glenn Doyle at (303) 966-3087.

Sincerely,



Richard J. DiSalvo, Acting Assistant Manager
for Environment and Stewardship

cc:
R. DiSalvo, AAMES, RFFO
G. Doyle, RC, RFFO
W. Prymak, RC, RFFO
J. Stover, CS, RFFO
S. Bell, OCC, RFFO
D. Shelton, KH
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CERCLA Administrative Record

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