

Pond Discharge Notification Cover Sheet

Date: 4/23/10

Total pages including cover sheet = 1

To:

Carl Spreng,	CDPHE	<u>carl.spreng@state.co.us</u>
Vera Moritz	EPA	<u>moritz.vera@epa.gov</u>
Steve Berendzen	USFWS	<u>steve_berendzen@fws.gov</u>
David Allen	Broomfield	<u>dallen@ci.broomfield.co.us</u>
Shirley Garcia	Broomfield	<u>sgarcia@ci.broomfield.co.us</u>
Laura Hubbard	Broomfield	<u>lhubbard@broomfield.org</u>
Dan Mayo	Broomfield	<u>dmayo@ci.broomfield.co.us</u>
Kathy Schnoor	Broomfield	<u>kschnoor@ci.broomfield.co.us</u>
Shelley Stanley	Northglenn	<u>sstanley@northglenn.org</u>
Bud Hart	Thornton	<u>bud.hart@cityofthornton.net</u>
Ed Lanyon	Thornton	<u>edward.lanyon@cityofthornton.net</u>
Bob Krugmire	Westminster	<u>bkrugmire@ci.westminster.co.us</u>
Cathy Shugarts	Westminster	<u>cshurgarts@ci.westminster.co.us</u>
Mark Gutke	JeffCo	<u>mgutke@co.jefferson.co.us</u>
Paul Winkle	DOW	<u>paul.winkle@state.co.us</u>
David Abelson	RFSC	<u>dabelson@rockyflatssc.org</u>

From: George Squibb, Rocky Flats Surface Water Lead, telephone (303) 994-0145

Re: Discharge notification for Rocky Flats Pond B-5.

Pre-discharge samples for Pond B-5 were collected on 4/2/10. Results for samples analyzed by Rocky Flats contract labs indicate that water quality is acceptable for discharge (see attached preliminary results – validation pending); results for split samples analyzed by CDPHE have not been received at this time. Additional non-RFLMA samples have also been collected at Pond B-5 since the end of January 2010. While these additional samples are not pre-discharge samples, they are attached for reference (also preliminary results – validation pending).

The Site operates the Rocky Flats dams according to the *Operations and Maintenance Plan for the Rocky Flats Surface Water Control Project* and the *Emergency Response Plan for the Rocky Flats Site Dams* (ERP). Although an Emergency Action Plan is not required by the Colorado State Engineer for Rocky Flats dams, as a best management practice, a series of action levels and corresponding response actions have been developed to ensure dam safety. These action levels and response actions are delineated in the ERP.

As of 4/23/10 at 12:00, Pond B-5 is at 56.5% capacity (13.1MG) with two piezometers showing water levels above their lower safety level. According to the ERP, this places Dam B-5 at Action Level 3 (Elevated Awareness Condition). Current weather forecasts call for substantial precipitation over the next two days. Should changing conditions in the near future push Dam B-5 to Action Level 4,

the Site plans to immediately begin discharging Pond B-5 in the interest of dam safety. A subsequent notification will be transmitted immediately following a decision to discharge Pond B-5 this weekend.

If discharge is warranted this weekend, Pond B-5 will be direct discharged using the outlet works to South Walnut Creek through Point of Compliance (POC) location GS08. All required monitoring at downstream POCs GS08 and GS03 (Walnut Creek at Indiana Street) will be performed according to the normal protocols in Attachment 2 to RFLMA. The discharge is expected to continue for approximately 14 days, with a total discharge volume dependent on inflow.

If dam safety remains at an acceptable level in the near term, the Pond B-5 discharge will be delayed until results from the CDPHE split samples are received sometime next week. A subsequent notification with all Pond B-5 pre-discharge analytical data and the final discharge schedule will be transmitted at that time.

Please contact me if you have questions.

Preliminary Pre-Discharge Results

PRELIMINARY RESULTS REPORT

RIN: 10042964

Site: Rocky Flats Surface Water

Site Code: RFS01 Location: B5 POND

Ticket Number: IFZ 722

Report Date: 4/14/2010

Parameter	Units	Date Sampled	Date Analyzed	Result	Qualifier(s)	Uncertainty	Detection Limit	Method
Nitrate Nitrite as N	mg/L	04/02/2010	04/09/2010	0.17			0.019	353.2
Uranium	ug/L	04/02/2010	04/06/2010	11			0.020	6020

PRELIMINARY RESULTS REPORT

RIN: 10042963

Site: Rocky Flats Surface Water

Site Code: RFS01 Location: B5 POND

Ticket Number: IFZ 721

Report Date: 4/20/2010

Parameter	Units	Date Sampled	Date Analyzed	Result	Qualifier(s)	Uncertainty	Detection Limit	Method
Americium-241	pCi/L	04/02/2010	04/08/2010	0.00348	U	0.00519	0.0131	Am-05-RC Modified
Plutonium-238	pCi/L	04/02/2010	04/08/2010	0.0073	U	0.00546	0.0148	Pu-11-RC Modified
Plutonium-239/240	pCi/L	04/02/2010	04/08/2010	0.00625	U	0.00869	0.00983	Pu-11-RC Modified

Preliminary Non-RFLMA Results

PRELIMINARY RESULTS REPORT

RIN: 10012826

Site: Rocky Flats Surface Water

Site Code: RFS01 Location: B5 POND

Ticket Number: ICT 912

Report Date: 2/25/2010

Parameter	Units	Date Sampled	Date Analyzed	Result	Qualifier(s)	Uncertainty	Detection Limit	Method
Uranium	ug/L	01/27/2010	02/06/2010	10			0.020	EPA 6020

PRELIMINARY RESULTS REPORT

RIN: 10022852

Site: Rocky Flats Surface Water

Site Code: RFS01 Location: B5 POND

Ticket Number: IDU 969

Report Date: 3/1/2010

Parameter	Units	Date Sampled	Date Analyzed	Result	Qualifier(s)	Uncertainty	Detection Limit	Method
Uranium	ug/L	02/10/2010	02/12/2010	8.4			0.040	EPA 6020

PRELIMINARY RESULTS REPORT

RIN: 10022878

Site: Rocky Flats Surface Water

Site Code: RFS01 Location: B5 POND

Ticket Number: IDV 998

Report Date: 3/16/2010

Parameter	Units	Date Sampled	Date Analyzed	Result	Qualifier(s)	Uncertainty	Detection Limit	Method
Uranium	ug/L	02/24/2010	03/08/2010	29			0.020	6020

PRELIMINARY RESULTS REPORT**RIN: 10032920****Site: Rocky Flats Surface Water****Site Code: RFS01 Location: B5 POND****Ticket Number: IEX 495****Report Date: 3/29/2010**

Parameter	Units	Date Sampled	Date Analyzed	Result	Qualifier(s)	Uncertainty	Detection Limit	Method
Uranium	ug/L	03/11/2010	03/18/2010	5.2			0.020	6020

PRELIMINARY RESULTS REPORT**RIN: 10032944****Site: Rocky Flats Surface Water****Site Code: RFS01 Location: B5 POND****Ticket Number: IEY 444****Report Date: 4/14/2010**

Parameter	Units	Date Sampled	Date Analyzed	Result	Qualifier(s)	Uncertainty	Detection Limit	Method
Uranium	ug/L	03/25/2010	04/09/2010	10			0.020	6020

PRELIMINARY RESULTS REPORT**RIN: 10042978****Site: Rocky Flats Surface Water****Site Code: RFS01 Location: B5 POND****Ticket Number: IFZ 948****Report Date: 4/20/2010**

Parameter	Units	Date Sampled	Date Analyzed	Result	Qualifier(s)	Uncertainty	Detection Limit	Method
Uranium	ug/L	04/06/2010	04/15/2010	26			0.040	6020
