

91 RF 311

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CRGAN RV	X
CATH P	
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CEER GL	X
TTO V	
PC II	X
RE	X
ISON ER	
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KNSON RR	
L LMS RE	
LSCN JM	
CUNG ER	
ANEJO	
B Arndt	X
S Busby	X
J Ewan	X
W Langman	X
G Porter	X
Smith	X
D Lindbergh	X
G.C. Greenwald	X
M. Anderson	X
RAM	X
OPERES CONTROL	X
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# EG&G ROCKY FLATS

EG&G ROCKY FLATS INC  
ROCKY FLATS PLANT P O BOX 464 GOLDEN COLORADO 80102 04 4 (303) 966 7000

June 6 1991

91 RF 3311

Robert M Nelson Jr  
Manager  
DOE RFO

Attn Scott Grace

OPERABLE UNIT NO 2 SURFACE WATER STATIONS (2133) JMK 0183 91

This letter is in response to your correspondence (ERD SG 2133) dated April 1 1991 requesting EG&G to begin sampling at surface water location SW132 and for the establishment of a flow monitoring program at selected stations within Operable Unit No 2

EG&G has attempted to collect water samples from location SW132 on a monthly basis since December 1990 The site was frozen at the time and water samples could not be taken The site remained frozen in January 1991 Tightened security restrictions arising from Operation Desert Storm prevented contract personnel from sampling the site during February 1991 However a water sample was collected from the site in March and EG&G is awaiting analytical results These results will be made available to DOE as soon as they are received EG&G will continue to try to sample it on a monthly basis

Monthly water sampling and flow measurements are being attempted at the following surface water stations listed in your letter SW 50 51 52 53 55 57 58 59 60 61 63 64 77 and 132 Water sampling personnel under contract to EG&G routinely record flow measurements at each surface water station at the time that water samples are collected These flow measurements are made in accordance with a standard operating procedure (SOP) However the water flows characteristic of many of the pipe discharges and seeps listed in your letter are ordinarily low (less than 0.1 cubic feet per second or cfs) and are sometimes dry Water flows less than 0.1 cfs (approximately 45 gallons per minute or gpm) have previously been recorded as <0.1 cfs Obviously it is desirable to have the capability of measuring much smaller flows than 45 gpm and EG&G is working with its subcontractors to revise the existing SOP to improve the flow measurement methods

The April 1 1991 letter requests that continuous flow stations be established at SW53 55 59 60 63 64 132 and 133 to support the design for the South Walnut Creek Interim Measure/Interim Remedial Action Plan (IM/IRAP) As discussed previously we are attempting to measure flow at these stations on a monthly basis Some of these stations are more suitable for continuous flow monitoring than others and the merits of each will be discussed in the following paragraphs

CLASSIFICATION	
UC	
UNCLASSIFIED	X
CONFIDENTIAL	
SECRET	

CLASSIFIED CLASSIFIER SIGNATURE

*[Signature]*

DATE 4/1/91

REPLY TO LETTER

0800-RF-*[Handwritten]*

C  
TR APPROVALS  
RDL  
JEE  
RIG & TEST INITIALS

GAW/laa

F 46-69 (Rev 19)

ADMIN RECORD

REVIEWED FOR CLASSIFICATION/UCNI

By *[Signature]*

Date *[Signature]*

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Water found at SW53 is a mix of surface runoff and emerging ground water. High flow events are associated with runoff and snow melt. A culvert of approximately 18 inch diameter could be used as a control structure for discharge measurements. However this culvert is presently full of sediment. It is possible to install a water depth recorder at this location.

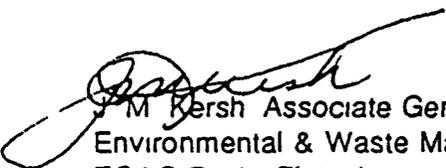
Station SW63 is a hillside seep which is normally dry and was identified in the past by a small patch of cattails. The location was dry and there were no living cattails during an inspection of SW63 in late May 1991. There was no evidence of a preferred flow path or of surface water flow in the recent past.

Station SW64 is a roadside ditch which has only ponded water after rainstorms and is not suitable for continuous flow monitoring because no relationship can be established between stage height and discharge.

The IMIRAP is concerned with measuring and treating potential discharges from SW59, SW61 and SW132. All of the water produced from SW59 and a maximum of 38 gpm from SW61 is currently being pumped for treatment. EG&G proposes to add a continuous flow measurement station just downstream of SW61 and a pumping and continuous flow measurement station at storm drain SW132. The continuous station below SW61 will indicate the total flow coming from storm drains SW60 and SW133 in excess of the water being pumped for treatment at SW61. The flow measurement station at SW132 will indicate any flow in excess of that being pumped for treatment. These new stations can be used in concert with our existing continuous flow measurement station at SW21.

It is also possible to implement continuous flow measurement capability at SW55 which is a roadside ditch. However EG&G would like to discuss the technical options, implementation schedule, budget and programmatic issues with your representatives regarding the addition of continuous monitoring capability at SW55, SW61 and SW132.

If you have questions regarding this matter please contact Gary Anderson (966 5747) or Greg Wetherbee (966 7756) of my staff.

  
J M Kersh Associate General Manager  
Environmental & Waste Management  
EG&G Rocky Flats Inc

GAW laa

Orig and 1 cc R M Nelson Jr