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Epid 57524
L.J. Dale March 9, 1998

Los Alamos National Laboratory Environmental Restoration Program
DAILY ACTIVITY LOG

Science Applications International Corporation
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Date: March 9, 1998 Field Unit: Canyons
Technical Area(s): N/A Operable Unit: N/A
Site Work Plan: Pajarito Workplan PRS No.: N/A

Signature: Leslie Dale
Name: Leslie Dale Title: FTL

SUBJECT: Review of ESH-18 NPDES Outfall Discharge Data for Inactive Outfalls in the Pajarito Canyon Watershed

Personnel: Leslie Dale, Brenda Edeskuty (ESH-18)
Time: 1:30-3:00 P.M.

Work Description:

Brenda Edeskuty facilitated access to ESH-18 NPDES Quarterly Industrial Discharge Monitoring Logs (1991 through the present) for the purpose of estimating discharge for inactive outfalls within the Pajarito Canyon Watershed which have either been removed or are pending removal from the Laboratory's NPDES permit.

Ms. Edeskuty explained that the discharge data provided on the quarterly monitoring logs are estimates obtained at the time of the sampling event by the bucket and stopwatch method. Many of the outfalls flow intermittently due to operational activity, therefore the discharge may not represent continuous flow and caution should be used when extrapolating long term discharge volumes. The exceptions are as follows: Outfall 128-128, the printed circuit board wastewater outfall; Outfalls O2S and O11S, which were combined prior to 1989; and Outfall O4S, which are equipped with flow meters which allowed continuous collection of flow measurements. Flow for 128-128 was estimated by averaging the discharge recorded for the months of March (2090 gal), September (2237 gal), October (1775 gal), November (2680 gal), and December (1910 gal) of 1993 to obtain a daily average of 70 gpd, or approximately 0.05 gpm. Flow for O2S and O11S was estimated by averaging the daily averages for January (.0044 MGD), June (.0007 MGD), August (.0025 MGD), and September (.00057 MGD) of 1992 to obtain a daily average of .0092 MGD, or approximately 6 gpm. Flow for O4S was estimated by averaging the daily averages for March (.0054 MGD), April (.0040 MGD), May (.0035 MGD), June (.0035 MGD), and July (.0023 MGD) of 1992 to obtain a daily average of .0092 MGD, or approximately 6 gpm. It is important to note that these estimates are intended to provide quick approximate discharge information, and do not represent a thorough or extensive review of all available ESH-18 discharge data.

As the outfalls in question are currently inactive, either due to rerouting the discharge to SWCS or cessation of the contributing operations, estimates of discharge were obtained by reviewing the discharge records from the most recent sampling events, prior to removal of the outfall from the permit. Ms. Edeskuty explained that there is a lag time of several quarters to a year or more between a change of outfall discharge status and removal from the permit, therefore the most recent discharge records available for the inactive outfalls are often from the year preceding the date of deletion from the permit.

A summary of data obtained follows (Bold information was obtained during monitoring log review to supplement Table 2.2.1-2 of the Pajarito Canyon Workplan):



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DAILY ACTIVITY LOG**

NPDES No.	Description	Discharge Location	Active	Discharge Volume (estimated)	Date of Discharge Record	Comment
03A-009	Cooling tower blowdown, treated	TA-3-102	No	Approx. 8 gpm Unknown frequency	3/30/94	Deleted 7/31/96
03A-015	Cooling tower blowdown, treated	TA-3-208	No	Approx. 16 gpm Intermittent based on operations	8/19/94	To be decommissioned 1998
06A-078	Photo waste discharge	TA-22-34	No	Approx. 5 gpm Intermittent based on operations	10/6/96	Deleted 7/31/96
04A-101	Noncontact cooling water	TA-40-9	No	Approx. 2 gpm	12/13/96	Deleted 9/19/97
05A-154	High explosive wastewater discharge	TA-40-1	No	Infrequent, No flow recorded on quarterly basis from 1991-1995		Deleted 12/6/95
04A-115	Noncontact cooling water	TA-8-70	No	Approx. 8-12 gpm Intermittent based on operations		Deleted 9/19/97
03A-098	Cooling water blowdown, treated	TA-59-1	No	Approx. 5 gpm Intermittent based on operations	8/12/94	Deleted 12/6/95
06A-099	Photo waste discharge	TA-40-23	No	Approx. 1-2 gpm	3/15/96 7/12/96	Deleted 9/19/97
04A-103	Noncontact cooling water	TA-15-40	No	Infrequent, No flow recorded on quarterly basis from 1991-1993		Deleted 8/94
04A-102	Noncontact cooling water	TA-15-40	No	Infrequent, No flow recorded on quarterly basis from 1991-1993		Deleted 8/94
128-128	Printed circuit board wastewater	TA-22-91	No	0.5 gpm	Average of flowmeter data for 1993	Deleted 12/6/95
O2S	Inactive sanitary sewer outfall	TA-09 oxidation pond	No	Approx. 6 gpm	Average of flowmeter Data for 1992	Outfalls combined prior to 1989 Deleted 8/94
O11S	Inactive sanitary sewer outfall	TA-08-26 oxidation pond	No			
O4S	Inactive sanitary sewer outfall	TA-18 oxidation pond	No	Approx. 3 gpm	Average of flowmeter data for 1992	Deleted 8/94