

Los Alamos

NATIONAL LABORATORY

*Los Alamos National Laboratory
Los Alamos, New Mexico 87545*

Date: September 24, 1998
In Reply Refer To: ESH-18/WQ&H:98-0342
Mail Stop: K497
Telephone: (505) 665-1859

NPDES

Ms. Diana Gamble
U.S. Environmental Protection Agency
Compliance Assurance and Enforcement Division
Water Enforcement Branch (6EN-W)
1445 Ross Avenue
Dallas, Texas 75202-2733

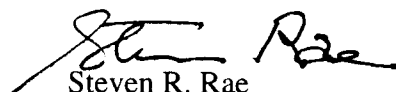
**SUBJECT: DISCHARGE MONITORING REPORTS (DMRs) FOR AUGUST, 1998,
NPDES PERMIT NO. NM0028355**

Dear Ms. Gamble:

Enclosed are Los Alamos National Laboratory's DMRs (EPA Form 3320-1) for August, 1998, as required under the above referenced NPDES Permit. There were no effluent limitations exceeded for the industrial outfalls. There were no effluent limitations exceeded for the analyses performed for sanitary outfall 13S.

Please contact Carla Jacquez at (505) 665-0450 or Mike Saladen at (505) 665-6085 if you desire any additional information concerning these DMRs.

Sincerely,



Steven R. Rae
Group Leader, ESH-18
Water Quality & Hydrology Group

SR:CJ/md

Enclosures: a/s

Cy: C. Soden, DOE/AL, Albuquerque, New Mexico, w/enc.
G. Saums, NMED, Santa Fe, New Mexico, w/enc.
J. Parker, NMED/AIP, Santa Fe, New Mexico, w/enc.
J. Vozella, DOE/LAAO, w/enc., MS A316
D. Erickson, LANL, ESH-DO, w/enc., MS K491
M. Brown, JCI/JENV, w/enc., MS A199
LANL Outfall Owners, w/enc.
WQ&H File, w/enc., MS K49
CIC-10, w/enc., MS A150

RECEIVED

OCT 02 1998

OVERSIGHT BUREAU



15726

PERMITTEE NAME/ADDRESS (Include Facility Name/ Location (if Different))

NAME UNIVERSITY OF CALIFORNIA
ADDRESS LOS ALAMOS NATIONAL LABORATORY
PO BOX 1663; MAIL STOP K490
LOS ALAMOS,, NM 87545

FACILITY

LOCATION Outfall Owner: D. Padilla

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

NM0028355
PERMIT NUMBER

001 A
DISCHARGE NUMBER

MAJOR
F - FINAL

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

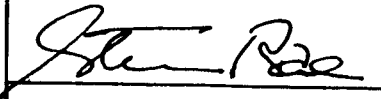
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
98	08	01	98	08	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

POWER PLANT DISCHARGE

*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUANTITY OR CONCENTRATION (4 Card Only) (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (54-61)	MAXIMUM (54-61)	UNITS (54-61)	MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (46-53)	UNITS (46-53)			
PH 00400 1 0 0	SAMPLE MEASUREMENT PERMIT REQUIREMENT	***** *****	***** *****	***** *****	8.8 6.0 MINIMUM	***** *****	8.8 9.0 MAXIMUM	SU	0	1 / MON	GRAB
TOTAL SUSP. SOLIDS 00530 1 0 0	SAMPLE MEASUREMENT PERMIT REQUIREMENT	***** *****	***** *****	***** *****	***** *****	5 30 DAILY AVG	5 100 DAILY MAX	MG / L	0	1 / MON	GRAB
FLOW 50050 1 0 0	SAMPLE MEASUREMENT PERMIT REQUIREMENT	0.0576 REPORT DAILY AVG	0.0576 REPORT DAILY MAX	MGD *****	***** *****	***** *****	***** *****	*****	1 / MON	EST	EST
FREE AVAIL. CHLORINE 50064 1 0 0	SAMPLE MEASUREMENT PERMIT REQUIREMENT	***** *****	***** *****	***** *****	***** *****	0.0 0.2 DAILY AVG	0.0 0.5 DAILY MAX	MG / L	0	1 / MON	GRAB
	SAMPLE MEASUREMENT PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER STEVEN R. RAE ESH-18 GROUP LEADER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1318. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 505 855-0453	DATE 98 9 28		
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/ Location if Different)

NAME UNIVERSITY OF CALIFORNIA
 ADDRESS LOS ALAMOS NATIONAL LABORATORY
 PO BOX 1663; MAIL STOP K490
 LOS ALAMOS,, NM 87545

FACILITY

LOCATION Outfall Owner: S. Hanson

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (2-16) (17-19)

NM0028355
 PERMIT NUMBER

051 A
 DISCHARGE NUMBER

MAJOR
 F - FINAL

Form Approved.
 OMB No. 2040-0004
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MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
98	08	01	98	08	31
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

INDUST. WASTE TREATMENT DISCHARGE

*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUANTITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
CHEMICAL OXY. DEMAND	SAMPLE MEASUREMENT	5	7	LB/DY	*****	24	39	0	4 / MON	GRAB
00340 1 0 1	PERMIT REQUIREMENT	94	156		*****	125	125		1 / WK	GRAB
		DAILY AVG	DAILY MAX			DAILY AVG	DAILY MAX			
PH	SAMPLE MEASUREMENT	*****	*****	*****	6.1	*****	8.6	0	CONT	REC
00400 1 0 0	PERMIT REQUIREMENT	*****	*****		6.0	*****	9.0		CONT	REC
					MINIMUM		MAXIMUM			
TOTAL SUSP. SOLIDS	SAMPLE MEASUREMENT	0.6	1.1	LB/DY	*****	*****	*****	0	4 / MON	GRAB
00530 1 0 0	PERMIT REQUIREMENT	18.8	2.6		*****	*****	*****		1 / WK	GRAB
		DAILY AVG	DAILY MAX							
TOTAL NITROGEN	SAMPLE MEASUREMENT	*****	*****	*****	*****	609.0	609.0	0	1 / MON	GRAB
00600 1 0 1	PERMIT REQUIREMENT	*****	*****		*****	REPORT	REPORT		1 / MON	GRAB
						DAILY AVG	DAILY MAX			
AMMONIA (AS N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	2.4	2.4	0	1 / MON	GRAB
00610 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	REPORT	REPORT		1 / MON	GRAB
						DAILY AVG	DAILY MAX			
NITRATE-NITRITE AS N	SAMPLE MEASUREMENT	*****	*****	*****	*****	607.0	607.0	0	1 / MON	GRAB
00630 1 0 1	PERMIT REQUIREMENT	*****	*****		*****	REPORT	REPORT		1 / MON	GRAB
						DAILY AVG	DAILY MAX			
TOTAL CADMIUM	SAMPLE MEASUREMENT	0.00	0.00	LB/DY	*****	0.0	0.0	0	4 / MON	GRAB
01027 1 0 1	PERMIT REQUIREMENT	0.06	0.30		*****	0.2	0.2		1 / WK	GRAB
		DAILY AVG	DAILY MAX			DAILY AVG	DAILY MAX			
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1318. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)				TELEPHONE		DATE		
STEVEN R. RAE ESH-18 GROUP LEADER						505 665-0453		98 9 28		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Note: Total nitrogen was calculated using the value for NH₃ as N instead of TKN. The results for TKN was biased low due to matrix interference. (8A)

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NAME UNIVERSITY OF CALIFORNIA
ADDRESS LOS ALAMOS NATIONAL LABORATORY
PO BOX 1663; MAIL STOP K490
LOS ALAMOS,, NM 87545

FACILITY
LOCATION Outfall Owner: S. Hanson

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

NM0028355
PERMIT NUMBER

051 A
DISCHARGE NUMBER

MAJOR
F - FINAL

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
98	08	01	98	08	31
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

INDUST. WASTE TREATMENT DISCHARGE
*** NO DISCHARGE ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUANTITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)				
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS			
TOTAL CHROMIUM	SAMPLE MEASUREMENT	0.00	0.00	LB/DY	*****	0.0	0.0	MG/L	0	4/MON	GRAB			
01034 1 0 1	PERMIT REQUIREMENT	0.19	0.38		*****	5.1	5.1			1/WK	GRAB			
		DAILY AVG	DAILY MAX			DAILY AVG	DAILY MAX							
TOTAL COPPER	SAMPLE MEASUREMENT	0.02	0.02	LB/DY	*****	0.1	0.1	MG/L	0	4/MON	GRAB			
01042 1 0 1	PERMIT REQUIREMENT	0.63	0.63		*****	1.6	1.6			1/WK	GRAB			
		DAILY AVG	DAILY MAX			DAILY AVG	DAILY MAX							
TOTAL IRON	SAMPLE MEASUREMENT	0.0	0.1	LB/DY	*****	*****	*****	*****	0	4/MON	GRAB			
01045 1 0 0	PERMIT REQUIREMENT	1.0	2.0		*****	*****	*****			1/WK	GRAB			
		DAILY AVG	DAILY MAX											
TOTAL LEAD	SAMPLE MEASUREMENT	0.00	0.00	LB/DY	*****	0.0	0.0	MG/L	0	4/MON	GRAB			
01051 1 0 1	PERMIT REQUIREMENT	0.06	0.15		*****	0.4	0.4			1/WK	GRAB			
		DAILY AVG	DAILY MAX			DAILY AVG	DAILY MAX							
TOTAL NICKEL	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0	0.0	MG/L	0	4/MON	GRAB			
01067 1 0 1	PERMIT REQUIREMENT	*****	*****		*****	REPORT	REPORT			1/WK	GRAB			
						DAILY AVG	DAILY MAX							
TOTAL ZINC	SAMPLE MEASUREMENT	0.04	0.07	LB/DY	*****	0.2	0.2	MG/L	0	4/MON	GRAB			
01092 1 0 1	PERMIT REQUIREMENT	0.62	1.83		*****	95.4	95.4			1/WK	GRAB			
		DAILY AVG	DAILY MAX			DAILY AVG	DAILY MAX							
RADIUM-226 + 228	SAMPLE MEASUREMENT	*****	*****	*****	*****	2.0	2.0	PCI/L	0	1/MON	GRAB			
11503 1 0 1	PERMIT REQUIREMENT	*****	*****		*****	30.0	30.0			1/MON	GRAB			
						DAILY AVG	DAILY MAX							
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STEVEN R. RAE						505 665-0453		98 9 28						
ESH-18 GROUP LEADER						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT								
TYPED OR PRINTED						AREA CODE	NUMBER	YEAR	MO	DAY				

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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FACILITY

LOCATION Outfall Owner: S. Hanson

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

NM0028355
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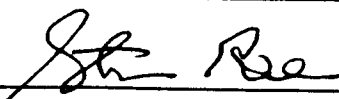
MONITORING PERIOD

FROM YEAR 98 MO 08 DAY 01 TO YEAR 98 MO 08 DAY 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

INDUST. WASTE TREATMENT DISCHARGE
*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUANTITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0.0288	0.0444	MGD	*****	*****	*****	*****		CONT	REC
50050 1 0 0	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MAX		*****	*****	*****			CONT	REC
TOTAL MERCURY	SAMPLE MEASUREMENT	0.000	0.00	LB/DY	*****	0.00	0.00	MG/L	0	4/MON	GRAB
71900 1 0 1	PERMIT REQUIREMENT	0.003 DAILY AVG	0.09 DAILY MAX		*****	0.01 DAILY AVG	0.01 DAILY MAX			1/WK	GRAB
TOTAL TOXIC ORGANICS	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0	0.0	MG/L	0	1/MON	GRAB
78141 1 0 1	PERMIT REQUIREMENT	*****	*****		*****	1.0 DAILY AVG	1.0 DAILY MAX			1/MON	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE			
STEVEN H. RAE ESH-18 GROUP LEADER			505 665-0453	98	9	28	
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Note: LAWL PA/QC not performed for TTO at time of DMR submission.
Dab package not yet recieved from analytical laboratory. (SR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location (If Different))

NAME UNIVERSITY OF CALIFORNIA
ADDRESS LOS ALAMOS NATIONAL LABORATORY
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LOS ALAMOS,, NM 87545

FACILITY LOCATION Outfall Owner: D. Padilla

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

NM0028355
PERMIT NUMBER

13S A
DISCHARGE NUMBER

MAJOR
F - FINAL

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MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
98	08	01	98	08	31
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

TREATED SANITARY SEWAGE EFFLUENT

*** NO DISCHARGE ***
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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUANTITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
BIO. OXY. DMD. 5 DAY	SAMPLE MEASUREMENT	5	*****	LB/DY	*****	2	2	0	3/MON	COMP
00310 1 0 0	PERMIT REQUIREMENT	100	*****		*****	30	45		3/MON	COMP
		DAILY AVG				DAILY AVG	DAILY MAX			
PH	SAMPLE MEASUREMENT	*****	*****	*****	7.4	*****	7.6	0	4/MON	GRAB
00400 1 0 0	PERMIT REQUIREMENT	*****	*****		6.0	*****	9.0		1/WK	GRAB
					MINIMUM		MAXIMUM			
TOTAL SUSP. SOLIDS	SAMPLE MEASUREMENT	5	*****	LB/DY	*****	2	2	0	3/MON	COMP
00530 1 0 0	PERMIT REQUIREMENT	100	*****		*****	30	45		3/MON	COMP
		DAILY AVG				DAILY AVG	DAILY MAX			
FLOW	SAMPLE MEASUREMENT	0.3452	0.4160	MGD	*****	*****	*****	*****	CONT	TOTAL
50050 1 0 0	PERMIT REQUIREMENT	REPORT	REPORT		*****	*****	*****		CONT	TOTAL
		DAILY AVG	DAILY MAX							
FECAL COL. BAC. / 100ML	SAMPLE MEASUREMENT	*****	*****	*****	*****	1	1	0	3/MON	GRAB
74055 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	500	500		3/MON	GRAB
						LOG MEAN	DAILY MAX			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE 505 665-0453	DATE			
STEVEN R. RAE ESH-18 GROUP LEADER			98	9	28	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Note: There was no disposal of sludge by land application from the 13S
SWSC Plant for the period from 8-1-97 through 7-31-98 (BR)