Environmental Services Division



Building 535A P.O. Box 5000 Upton, NY 11973-5000 Phone 631 344-8370 Fax 631 344-5812 cunniff@bnl.gov

managed by Brookhaven Science Associates for the U.S. Department of Energy

www.bnl.gov

March 19, 2001

Mr. Michael Holland Brookhaven Group Manager U. S. Department of Energy Brookhaven Group Upton, NY 11973

Dear Mr. Holland:

SUBJECT: NPDES - Discharge Monitoring Report (DMR) for February 2001 REFERENCE: Letter from Robert Desmarais to Cunniff dated February 27, 2001

Included as Attachment I, please find the DMR for the month of February 2001. Chemical analyses for the reported parameters are conducted by a NYS Department of Health certified contractor laboratory. Copies of the analytical reports are contained in Attachments II, and III. Field measured parameters (pH, settleable solids, flow) are recorded and/or measured by either the Plant Engineering Division, Sewage Treatment Plant Operators or the Environmental Services Division, Field Sampling Team.

With the exception of one excursion for the total zinc concentration for Outfall 001, review of the analytical data shows that all parameters met their respective SPDES effluent limitations this reporting period. With regard to zinc, samples collected on February 8, 2001, exhibited zinc concentrations of 0.136 mg/L. This value exceeded the SPDES permit limit of 0.100 mg/L. A Noncompliance Report has been prepared and included as Attachment IV. Due to the recurring nature of the zinc violation, we are planning a full SPDES compliance audit and investigation. G. Granzen of your staff has been invited to participate. Please note that for the majority of the Outfalls, flow measurements are conducted weekly or monthly; consequently, a daily maximum flow rate cannot be reported. All flow values reported for Outfalls 002, 003, 004, 005, 006A, 006B, and 007 are, therefore, daily averages. Collection and analysis of the SPDES permit samples are performed in accordance with the guidelines of the BNL Quality Assurance program. These guidelines include the routine calibration of instruments, standard operating procedures for collection and analysis of samples, use of standard methods of analysis, and validation of the contractor analytical data by the BNL analytical services laboratory. Brookhaven National Laboratory personnel collected all samples. A Quality Assurance inspection is performed periodically on contractor The Quality Assurance documentation is available from the Environmental Services Division and Plant Engineering Divisions.

Based on this information, we believe the values reported on the DMR are representative of the effluent from the BNL during the month of February 2001.

Please sign each page of the DMR where indicated and transmit the DMR and associated attachments to the New York State Department of Environmental Conservation and the Suffolk County Department of Health Services no later than March 28, 2001. If there are any questions regarding the information contained on the DMR or the analytical data packages, please do not hesitate to contact R. Lee at extension 3148 or M. Allocco at extension 3166.

Sincerely,

L. Cunniff, CEP

Division Manager

LEC/MA:pvg

Attachment I: Discharge Monitoring Report for February 2001.

Attachment II: Analytical Results from H2M Labs for samples collected on 02/05/01, and

02/8/01 from Outfall 001.

Attachment III: Analytical Results from H2M Labs for samples collected from Outfalls 001A.

001B, 001D, 002, 003, 004, 005, 006A, 006B, 007, 008, and 010.

Attachment IV: Non-Compliance Report for February SPDES Permit Excursion at Outfall 001.

M. Allocco w/attachments cc: W. Chaloupka w/attachments L. Cunniff w/o attachments G. Granzen w/o attachments J. Higbie w/attachments C. Johnson w/o attachments S. Krinsky w/o attachments R. Lee w/attachments E. Lessard w/o attachments D. Lowenstein w/o attachments E. Murphy w/attachments A. Queirolo w/o attachments T. Sheridan w/o attachments R. Travis w/attachments

EC62ER.01

D. Van Duyne w/attachments

Brookhaven National Laboratory SPDES Permit No. NY0005835 Discharge Monitoring Report for February 2001 Discharge Monitoring Report Notes:

- 1. The reported concentration is estimated at less than the method detection limit but greater than the instrument detection limit.
- 2. There was no discharge from Outfalls 002A and 002B during this reporting period.
- 3. Since flow records are maintained on a weekly or monthly basis, the flow rate provided is the daily average.
- 4. Flow is estimated based upon an instantaneous flow measurement and the assumption that flow continued for the entire day (i.e., 1,440 minutes).
- 5. In early September the flow monitoring equipment sustained electrical damage due to a lightening strike. The estimated flow was obtained using a standard Parshall Flume Discharge Table and weekly measurements of head height. The replacement flow meter was received and was installed on February 23, 2001.
- 6. The total zinc concentration was above the SPDES limit of 0.1 mg/L for samples collected on 02/8/01. Please see Attachment IV for a description of this excursion.
- 7. The analyte was also found in the associated laboratory blank.

ATTACHMENT I

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR FEBRUARY 2001

FOR OUTFALLS NO. 001-010

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Mr. Michael Holland

TYPED OR PRINTED

Area Office Manager

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 INCURY OF THOSE INDIVIDUALS IMMEDIALELY RESPONSIBLE FOR OBTAINING
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Area Office Manager

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DISCHARGE MONITORING REPORT (DMR) (17-19) USDOE ADDRESS BROOKHAVEN NATIONAL LABORATORY OMB No. 2040-0004 MAJOR NY0005835 Approval expires 05-31-98 (SUBR 01) 53 BELL AVE. BLDG 464 PERMIT NUMBER DISCHARGE NUMBER FE- FINAL UPTON * =} + = . NY 11973 FACILITY BROOKHAVEN NATIONAL LABORATORY PROCESS SANITAS STORMWIR RNOFF MONITORING PERIOD LOCATIONU? TON YEAR MO DAY YEAR MO DAY NY 11973 FROM UI UΖ *** NO DISCHARGE | THE PARK ATTN: GEORGE MALDSH. GROUP MGRE TUI ZUI TO UZ (20-21) (22-23) (24-25) NOTE: Read Instructions before completing this form. (28-27) (28-29) (30-31) (3 Card Only) QUANTITY OR LOADING (4 Card Only) QUANTITY OR CONCENTRATION **PARAMETER** (46-53) NO. FREQUENCY (54-61) SAMPLE (38-45)(48-53)(54-61)(32-37)EX OF: TYPE **AVERAGE** MAXIMUM : UNITS MINIMUM **AVERAGE ANALYSIS** MAXIMUM UNITS 2-BUTAVONE ***** (62-63) (64-68) (69-70) SAMPLE ***** **** **** (28)MEASUREMENT 2/MO **GRAB** 78356 1 0 **** ***** PERMIT ***** EFFLUENT GROSS VALUE REQUIREMENT OF THE STATE *** BOD. 5-DAY PERCENT ME UG/L RULH **** SAMPLE ***** > 96 **** REMOVAL 23) **MEASUREMENT** 1/MO CALCID 81010 K 0 0 PERMIT 18 Sept. 85 PERCENTREMOVAL I TOTAL TEAL REQUIREMENT MO AVEMN SULIDS, SUSPENDED CENT MONTH **** SAMPLE ***** **** PERCENT REMOVAL **>97** (23) MEASUREMENT 1/MO CALCTE 81011 K 0 0 PERMIT **485** FULLER ... PERCENTRENOVAL UNGEASTABLE REQUIREMENT **** HO AV HH CENT HONTH SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE **MEASUREMENT** PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDEF PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WIT 1 THE INFORMATION SU IMITTED HEREIN; AND BASED ON MY INQUIRY OF THO: E INDIVIDUALS IMMEDI. TELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SIBMITTED INFORMATION IS TRUE. ACCURATE AND DOMPLETE, I AM AW RE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE ANI IMPRIS DIMMEN. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1310. (Panalties under lines of times of the language from the STORY and of the STORY and THE STORY NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE Mr. Michael Holland Area Office Manager 631 344-3424 \$ 1319. (Penalties under l'iese str'ules m y include lines up to \$10,000 and or maximum imprisonment of between) months and 5 years.) SIGNATURE OF PRINCIPAL EXECUTIVE TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT AREA NUMBER COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachme tis her) YEAR MO

QUANTIFIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5. APPROX 152 OF STP DISCHARGE CAN BE TO SW VIA EXFILT FROM SEBIS. SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.) 01222/010208-2010

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

SEE PERMIT FOR ADDITIONL NOTES, COMMENTS AND REQUIREMENTS. SAMPLING FOR THIS OUTFALL SHALL BE CONDUCTED AT A LOCATION DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES

PA Form 3320-1 (08-95) Previous editions may not be used.

PERMITTEE NAME/ADDRESS (Include F. NAME U S D O E	f Different)	NATIONAL POI DISC	JOR"	Form Approved. OMB No. 2040-0004 Approval expires 05-31-98								
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(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

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

PA Form 3320-1 (08-95) Previous editions may not be used.

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(17-19) Form Approved. USDOE OMB No. 2040-0004 MAJOR Approval expires 05-31-98 ADDRESSBROOKHAVEN NATIONAL LABORATORY NY0005835: 008 M (SUBR 01) 53 BELL AVE. BLDG 464 PERMIT NUMBER **DISCHARGE NUMBER** FT- FINAL UP TON NY: 11973 FACILITY BROOKHAVEN NATIONAL LABORATORY STORMWTR RUNOFF WAREHOUSE (HW) **MONITORING PERIOD** LOCATION P TON YEAR MO DAY YEAR MO DAY NY: 11973 *** NO DISCHARGE 1 TO 1 *** OZ FROM UI 01 28 OI 02 .TO ATTN: SEORGE MALOSH, GROUP MGR: (20-21) (22-23)(24-25) (26-27)(28-29)(30-31) MOTE: Read Instructions before completing this form. (3 Card Only) QUANTITY OR LOADING (4 Card Only) QUANTITY OR CONCENTRATION FREQUENCY NO. SAMPLE **PARAMETER** (46-53) (54-61)(38-45)(46-53)(54-61) EX OF TYPE (32-37)AVERAGE **MAXIMUM ANALYSIS UNITS MINIMUM AVERAGE** MAXIMUM UNITS (69-70)(64-68)FLOH RATE **** SAMPLE 07) **** **** 183,121 See Note 4 MEASUREMENT 1/MO ENSTAN 00056 1 0 REPORT PERMIT DNEE/ INSTA EFFLUENT GROSS VALUE REQUIREMENT DAILY MX GPD MONTH TH ***** **** SAMPLE **** 12) 6.5 MEASUREMENT 6.5 1/MO GRAB 00400 PERMIT REPORTS OMCE/SCRAB EFFLUEYT GROSS VALUE REQUIREMENT MINIMUM MAXIMIX SU MONTH DIL & SREASE SAMPLE **** (*19) · 1/MO GRAB MEASUREMENT 00555 PERMIT ***** w • 15. NCE/SGRA3 EFFLUENT GROSS VALUE REQUIREMENT DATLY HX HS/L HTNOM 1.1-DICHLOROETHYLENS ***** SAMPLE ****** ***** (28)٧1 1/MO GRAB MEASUREMENT 34501 1 0 PERMIT 5 DMCE/ GRAS EFFLUENT GROSS VALUE REQUIREMENT DAILY MX US/L MONTH! 1.1.1-FRICHLORD-SAMPLE ***** (88) **Z1** 2 1/MO GRAB ETHANE MEASUREMENT 34506 1 0 PERMIT ONCE/ STAB EFFLUENT GROSS VALUE REQUIREMENT DATLY MX WG/L MONTH / W 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 **TELEPHONE** DATE 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. Mr. Michael Holland Area Office Manager 631 344-3424 SIGNATURE OF PRINCIPAL EXECUTIVE \$ 1319. (Penalties under these statutes may include fines up to \$10,000 and or **TYPED OR PRINTED** maximum imprisonment of between 6 months and 5 years.) OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO DAY

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(SUBR O1) 53 BELL AVE. BLDG 464 **PERMIT NUMBER** DISCHARGE NUMBER F'- FINAL UPTON FACILITY BROOKHAVEN NATIONAL LABORATORY NY 11973 COOLING TOWN FROM 919 ETC(HT2) MONITORING PERIOD LOCATION P TON YEAR MO DAY YEAR MO DAY NY 11973 FROM OI 02 01 *** NO DISCHARGE TO 02 28 ATTN: GEORGE MALOSH, GROUP MGR & (20-21) (22-23) (24-25) NOTE: Read Instructions before completing this form. (26-27) (28-29) (30-31) (3 Card Only) QUANTITY OR LOADING QUANTITY OR CONCENTRATION (46-53) (54-61) (4 Card Only) **PARAMETER** NO. FREQUENCY SAMPLE (46-53) (54-61)(38-45)(32-37)OF TYPE **AVERAGE** MAXIMUM UNITS MINIMUM **AVERAGE** ANALYSIS **MAXIMUM** UNITS PH (62-63) (64-68) (69-70)SAMPLE **** 7.1 **** 7.6 . 12) MEASUREMENT 4/MO GRAB 00400 1 0 0 PERMIT. REPORT 9.0 EFFLUENT GROSS VALUE REQUIREMENT ONCE/ GRAB. HINIHUM MAXIMUM DIL & GREASE SU MONTH **** SAMPLE **** (19) 5.4 1/MO MEASUREMENT GRAB 00556 1 0 0 PERMIT ***** ONEE/EGRABS EFFLUENT GROSS VALUE REQUIREMENT DATLY MX MG/L FLOW, IN CONDUIT OR HONTH SAMPLE **** E 0.05 03) **** THRU TREATMENT PLANT MEASUREMENT 4/MO INSTAN 50050 1 0 0 PERMIT. REPORT ONCE/ REDROR EFFLUENT GROSS VALUE REQUIREMENT DAILY MX MGD MONTH See Note 4,5 SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTILY 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 (Panaltias under these statutes may include fines un \$ 1000 and or NAME/TITLE PRINCIPAL EXECUTIVE OFFICER **TELEPHONE** DATE Mr. Michael Holland Area Office Manager 631 344-3424 \$ 1319. (Penalties under these stetutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) SIGNATURE OF PRINCIPAL EXECUTIVE TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT NUMBE ? YEAR MO COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) DAY SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS & REQUIREMENTS

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

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NY0005835

MAJDR

Form Approved.

OMB No. 2040-0004

Approval expires 05-31-98

USDOE

ADDRESSBROOKHAVEN NATIONAL LABORATORY