

120 E. Fifth Ave., Bldg. 860 P. O. Box 5000 Upton, NY 11973-5000 Phone 631 344-4549 Fax 631 344-7334 goode@bnl.gov

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

February 22, 2005

New York State Department of Environmental Conservation Division of Water Bureau of Wastewater Facilities Operation 625 Broadway, 4th Floor Albany, NY 12233-3506

Gentlemen:

SUBJECT: State Pollutant Discharge Elimination System (SPDES) NY-0005835

Brookhaven National Laboratory (BNL) Discharge Monitoring Report (DMR)

for January 2005

In accordance with our SPDES permit (NY-0005835), enclosed as Attachment I, please find the DMR for the month of January 2005. Severn Trent Laboratories, Inc. (NELAP Certification #11616) performs most of the analyses on SPDES samples, while H2M Labs, Inc. (NELAP Certification #10478) performs the BOD-5, Nitrogen series, and fecal coliform analyses and CHEMTEX Environmental Laboratory, Inc. (NELAP Certification #02077) performs specialty analyses for tolytriazole, hydroxyethilydene diphosphoric acid, and polypropylene glycol monobutyl ether. These laboratories are certified by the New York State Department of Health. Field measured parameters (pH, settleable solids, flow) are recorded and/or measured by BNL. Copies of the analytical reports will be retained in our files and will be made available upon request.

Review of the analytical data shows that all parameters met their respective SPDES effluent limitations.

Collection and analysis of these samples are performed in accordance with the BNL Quality Assurance (QA) program that specifies the standard operating procedures for collection and analysis of samples, QA data requirements, validation of contractor analytical data, and QA inspections performed periodically on contractor laboratories. All QA data, data validation reports, contractor laboratory assessment and audit reports are available upon request. Based on this information, we believe the values reported on the DMR are representative of the effluent from BNL during the month of January 2005.



If you should have any questions, please contact Marcia Allocco or Robert Lee of my staff at (631) 344-3166 and (631) 344-3148 respectively.

Sincerely,

Original Signed by R. Lee (for)

George A. Goode Environmental & Waste Management Services **Division Manager**

GAG/MA:car

Attachment I: Discharge Monitoring Report for January 2005.

Analytical Results from H2M Labs Inc. and Severn Trent Laboratories, Inc. for Attachment II:

samples collected on 1/3/05 and 1/5/05 from Outfall 001 (BNL Use Only).

Attachment III: Analytical Results from Severn Trent Laboratories and CHEMTEX

Environmental Laboratory, Inc. for samples collected from Outfalls 002,

002B, 005, 006A, 006B, 008, and 010 (BNL Use Only).

M. Allocco, w/ all Attachments M. Baldwin, w/ all Attachments cc:

M. Bebon, w/o Attachments W. Chaloupka, w/ all Attachments

S. Dierker, w/ all Attachments G. Goode, w/o Attachments

G. Granzen, w/ all Attachments M. Holland, w/o Attachments

C. Johnson, w/o Attachments R. Lee, w/ all Attachments

E. Lessard, w/ all Attachments D. Lowenstein, w/o Attachments

E. Murphy, w/ all Attachments V. Radeka, w/ all Attachments

A. Santino, SCDHS, w/ Attachment I

B. Style, w/o Attachments

D. Van Duyne, w/ all Attachments

R. Sorrentino, NYSDEC, w/ Attachment I

J. Tarpinian, w/o Attachments

J. Zamirowski, TAS, CH, w/ Attachment I

EC62ER.05

Brookhaven National Laboratory SPDES Permit No. NY0005835 Discharge Monitoring Report for January 2005 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. Flow is estimated based upon an instantaneous flow measurement and the assumption that flow continued for the entire day (i.e., 1,440 minutes).
- 3. Since flow records are maintained on a weekly or monthly basis, the flow rate provided is the daily average.
- 4. The analytical laboratory reported the analyte concentration with a data qualifier that indicates the compound was found in the associated laboratory blank during the analysis.

ATTACHMENT I BROOKHAVEN NATIONAL LABORATORY SPDES PERMIT NO. NY0005835 DISCHARGE MONITORING REPORT FOR JANUARY 2005 FOR OUTFALLS NO. 001 – 010

NAME USDOE

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973 ATTN: MICHAEL HOLLAND, GROUP MGR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

 MAJOR

 NY0005835
 001 M
 (SUBR 01)

 Permit Number
 Discharge Number
 F - FINAL

Monitoring Period PROCESS SANIT & STORMWTR RNOFF
From To *** No Discharge ****
YR MO DY YR MO DY

05 01 01 05 01 31 Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING				LITY OR CC	NCENTRAT	TION	NO. EX	FREQUENCY OF	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	*****	*****		*****	*****	54	(15)	0	01/01	GR	
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	90 DAILY MX	DEG.F		DAILY	GRAB	
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	*****	*****		*****	< 2	< 2	(19)	0	02/30	24	
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**** ***	*****	10 DAILY AV	20 DAILY MX	MG/L		ONCE/MONTH	COMP24	
PH	SAMPLE MEASUREMENT	*****	*****		6.5	*****	6.9	(12)	0	01/01	GR	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	5.8 MINIMUM	*****	9.0 MAXIMUM	SU		DAILY	GRAB	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****		*****	< 1.0	< 1.0	(19)	0	02/30	24	
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	10 DAILY AV	20 DAILY MX	MG/L		ONCE/MONTH	COMP24	
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.0	(25)	0	01/01	GR	
00545 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	0.1 DAILY MX	ML/L	0	DAILY	GRAB	
NITROGEN, TOTAL (AS N)	SAMPLE MEASUREMENT	*****	*****		*****	*****	6.7	(19)		02/30	24	
00600 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	10 DAILY MX	MG/L		ONCE/MONTH	COMP24	
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.11	(19)	0	02/30	24	
00610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	2 DAILY MX	MG/L		ONCE/MONTH	COMP24	
NAME/TITLE PRINCIPAL EXECUT	TIVE OFFICER	I certify und	er penalty of law that	at this document an	d all attachments we	ere prepared under	my direction		· · · · · · · · · · · · · · · · · · ·			
Division Manager				, ,	ed to assure that quarry my inquiry of the per		. , ,					ohone 14-4549
Environmental & Waste Man	agement	system, or those persons directly responsible for gathering the information, the information submitted is, to the										
Services Division		best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties					Signatur	e of Princip	al Executive	Date S	Signed	
Typed or Printed		for submitting	false information,	including the possib	liity of fine and impri	sonment for knowing	ng violations.	Office	r or Author	ized Agent		

Comments and Explanation of any violations (Reference all attachments here)

QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5.

NAME USDOE

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973
ATTN: MICHAEL HOLLAND, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

				_MAJOR				
NY0005835			001 M	(SUBR 01)				
Permit Num	ber		Discharge Number	nber F - FINAL				
Monitorin	ng Per	iod		PROCESS SANIT & STORM	WTR RNOFF			
From	То		**	* No Discharge	****			
YR MO DY	YR M	IO DY						

Note: Read Instructions before completing this form

FREQUENCY SAMPLE NO. QUANTITY OR LOADING QUALITY OR CONCENTRATION PARAMETER ΕX OF **TYPE** AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS **ANALYSIS** PHOSPHORUS, TOTAL SAMPLE (19) ***** ***** ***** ***** 1.4 0 02/30 24 (ASP) MEASUREMENT REPORT 00665 1 0 0 **PERMIT** **** ***** ***** ***** ONCE/MONTH COMP24 **EFFLUENT GROSS VALUE** REQUIREMENT **** **DAILY MX** MG/L CYANIDE, TOTAL **SAMPLE** (28)***** ***** ***** ***** < 5.0 0 02/30 GR (AS CN) MEASUREMENT 00720 1 0 0 **PERMIT** **** 100 ***** ***** ***** TWICE/MONTH **GRAB** **** **EFFLUENT GROSS VALUE** REQUIREMENT DAILY MX UG/L COPPER. TOTAL SAMPLE (19)***** ***** ***** ***** 0.037 0 02/30 24 (AS CU) MEASUREMENT 01042 1 0 0 **PERMIT** **** 0.15 ***** ***** ***** ONCE/MONTH COMP24 **** **EFFLUENT GROSS VALUE** REQUIREMENT **DAILY MX** MG/L IRON, TOTAL SAMPLE (19) ***** ***** ***** ***** 0.14 0 02/30 24 (AS FE) MEASUREMENT 01045 1 0 0 **PERMIT** **** 0.37 +++++ ***** ***** ***** ONCE/MONTH COMP24 **** **EFFLUENT GROSS VALUE** REQUIREMENT **DAILY MX** MG/L LEAD, TOTAL SAMPLE (19)***** ***** < 0.003 0 02/30 24 (AS PB) MEASUREMENT 01051 1 0 0 PERMIT **** 0.019 ***** ***** ***** ***** ONCE/MONTH COMP24 **EFFLUENT GROSS VALUE** REQUIREMENT **** **DAILY MX** MG/L SAMPLE **NICKEL, TOTAL** (19)***** ***** ***** ***** 0.026 0 02/30 24 (AS NI) MEASUREMENT 01067 1 0 0 **PERMIT** **** 0.11 ***** ***** ***** ***** ONCE/MONTH COMP24 **EFFLUENT GROSS VALUE** REQUIREMENT **** DAILY MX MG/L SILVER. TOTAL SAMPLE (19)***** ***** ***** ***** 0.0013 0 02/30 24 **MEASUREMENT** (AS AG) See Note 1 01077 1 0 0 PERMIT **** 0.015 ***** ***** ***** ***** ONCE/MONTH COMP24 **EFFLUENT GROSS VALUE** REQUIREMENT **** MG/L **DAILY MX** NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I certify under penalty of law that this document and all attachments were prepared under my direction Telephone or supervision in accordance with a system designed to assure that qualified personnel properly gather Division Manager 631-344-4549 and evaluate the information submitted. Based on my inquiry of the person or persons who manage the **Environmental & Waste Management** system, or those persons directly responsible for gathering the information, the information submitted is, to the Signature of Principal Executive Services Division Date Signed best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties Officer or Authorized Agent Typed or Printed for submitting false information, including the possibliity of fine and imprisonment for knowing violations.

05 01 01 05 01 31

Comments and Explanation of any violations (Reference all attachments here)

QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5.

NAME USDOE

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973 ATTN: MICHAEL HOLLAND, GROUP MGR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

MAJOR

NY0005835 001 M (SUBR 01)

Permit Number Discharge Number F - FINAL

Monitoring Period PROCESS SANIT & STORMWTR RNOFF

From To *** No Discharge YR MO DY YR MO DY

05 01 01 05 01 31 Note: Read Instructions before completing this form

05 01 05 01 31 No							Note: Read	i instruction	S before co	mpleting this fo	rm	_
PARAMETER		QUANTITY OR LOADING			QUA	LITY OR CO	DNCENTRAT	TION	ON NO. FREQUENCY EX OF			
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
ZINC, TOTAL (AS ZN)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.05	(19)	0	02/30	24	
01092 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**** ****	*****	*****	0.1 DAILY MX	MG/L		ONCE/MONTH	COMP24	
TOLUENE	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 1.0	(28)	0	02/30	GR	
34010 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	5 DAILY MX	UG/L		TWICE/MONTH	GRAB	
METHYLENE CHLORIDE See Notes 1 and 4	SAMPLE MEASUREMENT	*****	*****		*****	*****	1.0	(28)	0	02/30	GR	
34423 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**** ***	*****	*****	5 DAILY MX	UG/L		TWICE/MONTH	GRAB	
1,1,1-TRICHLORO- ETHANE	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 1.0	(28)	0	02/30	GR	
34506 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	5 DAILY MX	UG/L		TWICE/MONTH	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.24	0.33	(03)	*****	*****	*****		0	99/99	RC	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AV	2.3 DAILY MX	MGD	*****	*****	*****	****		CONTINUOUS	RCORDR	
MERCURY, TOTAL (AS HG) See Note 1	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.00007	(19)	0	02/30	24	
71900 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**** ***	*****	*****	0.0008 DAILY MX	MG/L		ONCE/MONTH	COMP24	
COLIFORM, FECAL GENERAL	SAMPLE MEASUREMENT	*****	*****		*****	< 2	< 2	(13)	0	02/30	GR	
74055 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**** ***	*****	200 DAILY AV	400 DAILY MX	#/ 100ML		ONCE/MONTH	GRAB	
NAME/TITLE PRINCIPAL EXECU	TIVE OFFICER	I certify unde	er penalty of law th	at this document an	d all attachments we	ere prepared under	my direction					
		or supervisio	n in accordance wi	ith a system designe	ed to assure that qua	alified personnel pro	operly gather				Telep	hone
Division Manager		and evaluate	the information sul	bmitted. Based on r	my inquiry of the per	rson or persons who	o manage the				631-34	4-4549
Environmental & Waste Man	agement	system, or those	persons directly re	esponsible for gather	ring the information,	the information sub	omitted is, to the					
Services Division		best of my know	ledge and belief, tr	rue, accurate, and co	ate, and complete. I am aware that there are significant penalties Signature of Principal Executive					Date S	Signed	
Typed or Printed		for submitting	false information,	including the possib	liity of fine and impr	isonment for knowi	ng violations.	Office	r or Authori	zed Agent		

Comments and Explanation of any violations (Reference all attachments here)

QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5.

NAME USDOE

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973
ATTN: MICHAEL HOLLAND, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

			_MAJOR				
NY0005835		001 M	(SUBR 01)				
Permit Num	ber	Discharge Number F - FINAL					
Monitorir	ng Period		PROCESS SANIT & STORMWTR RNOFI				
From	То	**:	* No Discharge				
YR MO DY	YR MO DY						

05 01 01 05 01 31 Note: Read Instructions before completing this form **FREQUENCY** SAMPLE NO. **QUANTITY OR LOADING** QUALITY OR CONCENTRATION PARAMETER ΕX OF **TYPE** AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS **ANALYSIS** 2-BUTANONE SAMPLE (28)***** ***** ***** ***** < 2.0 0 02/30 GR MEASUREMENT 78356 1 0 0 **PERMIT** **** 50 ***** ***** ***** ***** TWICE/MONTH **GRAB EFFLUENT GROSS VALUE** REQUIREMENT **** **DAILY MX** UG/L **BOD. 5-DAY PERCENT** SAMPLE (23)***** ***** ***** ***** 0 01/30 CA > 95 REMOVAL MEASUREMENT 81010 K 0 0 **PERMIT** **** 85 ***** ***** ***** ***** **CALCTD** ONCE/MONTH **** **PERCENT** PERCENTREMOVAL REQUIREMENT MO AV MN SOLIDS, SUSPENDED SAMPLE (23)***** ***** ***** ***** > 98 0 01/30 CA PERCENT REMOVAL MEASUREMENT 81011 K 0 0 **PERMIT** **** 85 ***** ***** ***** ***** ONCE/MONTH **CALCTD** **** PERCENT REMOVAL REQUIREMENT MO AV MN **PERCENT** 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 this document and all attachments were prepared under my direction Telephone or supervision in accordance with a system designed to assure that qualified personnel properly gather Division Manager 631-344-4549 and evaluate the information submitted. Based on my inquiry of the person or persons who manage the **Environmental & Waste Management** system, or those persons directly responsible for gathering the information, the information submitted is, to the Signature of Principal Executive **Services Division** Date Signed best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties Officer or Authorized Agent Typed or Printed for submitting false information, including the possibliity of fine and imprisonment for knowing violations.

Comments and Explanation of any violations (Reference all attachments here)

QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5.

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973 ATTN: MICHAEL HOLLAND, GROUP MGR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

							MAJOR					
NY0005835						002 B	(SUBR 01)					
Permit Number						Discharge Number	F - FINAL					
Monitoring Period					ł		RF (1004) & BRAHMS (1002) BLOWDN					
	Fron	1		То		***	No Discharge ****					
YR	МО	DΥ	YR	МО	DY							
05	01	01	05	01	31	Note: Read	d Instructions before completing this form					

PARAMETER		QUAN	QUANTITY OR LOADING QUALITY OR CONCENTRATION					NO. EX	FREQUENCY OF	SAMPLE TYPE		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
РН	SAMPLE MEASUREMENT	*****	*****	(07)	8.0	*****	8.0	(12)	0	01/30	GR	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	GPD	REPORT MINIMUM	*****	9.0 MAXIMUM	SU		ONCE/MONTH	GRAB	
OIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 5.0	(19)	0	01/30	GR	
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	15 DAILY MX	MG/L		ONCE/MONTH	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	*****	0.14	(03)	*****	*****	*****		0	04/30	RC	
50050 1 0 0 See Note 3 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	REPORT DAILY MX	MGD	*****	*****	*****	****		ONCE/MONTH	RCORDR	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECU	TIVE OFFICER	I certify unde	er penalty of law the	at this document an	d all attachments we	ere prepared under	my direction					
Division Manager				-	ed to assure that quarry my inquiry of the per						_	ohone 14-4549
Environmental & Waste Man Services Division	agement				ring the information,		·					Signed
Typed or Printed		-	=		liity of fine and impr	=	•	_	Officer or Authorized Agent			

Comments and Explanation of any violations (Reference all attachments here)

DISCHARGE MAY BE DIRECTED TO SURROUNDING LOW LYING AREA INSIDE ROADWAY THAT IS INSIDE RHIC RING. ONCE STORMWATER COLLECTION SYSTEM IS EXTENDED TO BLDG 1010 & A NEW RECHARGE BASIN IS CONSTRUCTED, DISCARGE SHOULD BE TO NEW BASIN.

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

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973
ATTN: MICHAEL HOLLAND, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

							MAJOR				
NY0005835						002 M (SUBR 01)					
Permit Number						Discharge Number	F - FINAL				
Monitoring Period					ł		AGS NON-C COOLNG,PRCP,ETC (HN				
Fre	From To		*** No Discharge								
YR M	0	DΥ	YR	МО	DY						

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUA	•	ONCENTRAT		NO. EX	FREQUENCY OF	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
РН	SAMPLE MEASUREMENT	*****	*****		6.6	*****	7.5	(12)	0	04/30	GR	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**** ***	REPORT MINIMUM	*****	9.0 MAXIMUM	SU		ONCE/MONTH	GRAB	
OIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 5.0	(19)	0	01/30	GR	
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**** ****	*****	*****	15 DAILY MX	MG/L		ONCE/MONTH	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.14	*****	(03)	*****	*****	*****		0	04/30	RC	
50050 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AV	*****	MGD	*****	*****	*****	****		ONCE/MONTH	RCORDR	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECU	TIVE OFFICER	I certify und	er penalty of law th	at this document an	d all attachments we	ere prepared under	my direction					
		or supervision	on in accordance wi	ith a system designe	ed to assure that qua	alified personnel pr	operly gather				Telepi	hone
Division Manager				-	my inquiry of the per		· · -				631-344	4-4549
Environmental & Waste Man	agement					-	=					
Services Division			those persons directly responsible for gathering the information, the information submitted is, to the knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties Signature of Principal Executive					al Executive	Date S	igned		
Typed or Printed		1	=		oliity of fine and impri	_	•	_	r or Author		_	

05 01 01 05 01 31

Comments and Explanation of any violations (Reference all attachments here)

SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS. SAMPLING FOR THIS OUTFALL SHALL BE CONDUCTED AT A LOCATION DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES WITH THE COOLING TOWER BLOWDOWN FROM THE STAR DETECTOR.

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973 ATTN: MICHAEL HOLLAND, GROUP MGR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

				, ,	MAJOR
NY0005835				005 M	(SUBR 01)
Permit Num	ber			Discharge Number	F - FINAL
Monitorin	ıg Pe	erioc	ł		NSLS COOLING TOWR BLDN ETC(HS)
From		То		***	No Discharge ****
YR MO DY	YR	МО	DY		

Note: Read Instructions before completing this form

PARAMETER			ITITY OR LO		QUA		ONCENTRAT		NO. EX	FREQUENCY OF	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
РН	SAMPLE MEASUREMENT	*****	*****		7.0	*****	7.6	(12)	0	04/30	GR	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	REPORT MINIMUM	*****	8.5 MAXIMUM	SU		ONCE/MONTH	GRAB	
OIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 5.0	(19)	0	01/30	GR	
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**** ***	*****	*****	15 DAILY MX	MG/L		ONCE/MONTH	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.15	*****	(03)	*****	*****	*****		0	04/30	RC	
50050 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AV	*****	MGD	*****	*****	*****	**** ****		ONCE/MONTH	RCORDR	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECU		I certify und	er penalty of law that	at this document an	d all attachments we	ere prepared under	my direction					1
Division Manager	,	and evaluate	the information sub	omitted. Based on i	ed to assure that qua my inquiry of the per	son or persons wh	o manage the				-	ohone 14-4549
Environmental & Waste Mar Services Division	nagement			-	ring the information, omplete. I am aware			_		al Executive	Date S	Signed
Typed or Printed		for submitting	g false information,	including the possib	oliity of fine and impri	isonment for knowi	ing violations.	Office	r or Author	ized Agent		

05 01 01 05 01 31

Comments and Explanation of any violations (Reference all attachments here) SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS.

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

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY LOCATION UPTON NY 11973

ATTN: MICHAEL HOLLAND, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

Note: Read Instructions before completing this form

PARAMETER		QUAN	ITITY OR LO	ADING	QUA	LITY OR CO	ONCENTRAT	ION	NO. EX	FREQUENCY OF	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
FLOW RATE	SAMPLE MEASUREMENT	*****	160000	(07)	*****	*****	*****		0	15/30	IN	
00056 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	REPORT DAILY MX	GPD	*****	*****	*****			ONCE/MONTH	INSTAN	
PH	SAMPLE MEASUREMENT	*****	*****		6.6	*****	6.6	(12)	0	01/30	GR	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**** ***	REPORT MINIMUM	*****	9.0 MAXIMUM	SU		ONCE/ MONTH	GRAB	
	SAMPLE MEASUREMENT											1
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECU	TIVE OFFICER	-			d all attachments we		•				Teler	phone
Division Manager		and evaluate	the information sul	omitted. Based on	my inquiry of the per	son or persons wh	o manage the					44-4549
Environmental & Waste Mar Services Division	nagement	I -		-	ring the information, omplete. I am aware			_		al Executive	Date \$	Signed
Typed or Printed		for submitting	g false information,	including the possib	liity of fine and impri	sonment for know	ing violations.	Office	r or Author	ized Agent		

05 01 01 05 01 31

Comments and Explanation of any violations (Reference all attachments here)

SAMPLES TO BE COLLECTED AT EFFLUENT PIPE TO WHICHEVER BASIN IS IN OPERATION AT THE TIME. STANDING WATER IN EITHER BASIN SHALL NOT BE COLLECTED FOR DMR SAMPLING PURPOSES. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS.

	RMITTEE NAME/ADDRESS (Include Facility Name/Location if Di	tterent)
--	--	----------

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973
ATTN: MICHAEL HOLLAND, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PARAMETER			ITITY OR LO	-			ONCENTRAT	-	NO. EX	FREQUENCY OF	SAMPLE TYPE	j
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
FLOW RATE See Note 2	SAMPLE MEASUREMENT	*****	428000	(07)	*****	*****	*****		0	01/30	IN	
00056 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	REPORT DAILY MX	GPD	*****	*****	*****	**** ****		ONCE/MONTH	INSTAN	
РН	SAMPLE MEASUREMENT	*****	*****	-	8.2	*****	8.2	(12)	0	01/30	GR	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	REPORT MINIMUM	*****	8.5 MAXIMUM	SU		ONCE/MONTH	GRAB	
OIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 5.0	(19)	0	01/30	GR	
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****		*****	15 DAILY MX	MG/L		ONCE/MONTH	GRAB	
1,1-DICHLOROETHYLENE	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 1.0	(28)	0	01/30	GR	
34501 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	5 DAILY MX	UG/L		ONCE/MONTH	GRAB	
1,1,1-TRICHLORO- ETHANE	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 1.0	(28)	0	01/30	GR	
34506 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	5 DAILY MX	UG/L		ONCE/MONTH	GRAB	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECU	TIVE OFFICER	I certify und	er penalty of law the	at this document an	d all attachments we	ere prepared under	my direction					•
Division Manager				-	ed to assure that qua						Telep 631-34	hone 4-4549
Environmental & Waste Man	agement	system, or those	persons directly re	sponsible for gathe	ring the information,	the information su	bmitted is, to the					
Services Division Typed or Printed			=		omplete. I am aware	_	•	_	e of Princip	al Executive	Date S	Signed
i yped or Printed		เบเ ธนมกาในแก้	, iaise IIIIOIIIIallOII,	morading the possit	ning of fille and impli	ISOTHIRE ILL TOT KNOW	ing violations.	Cilice	A OI AUUIOI	Lou Ayent		

Comments and Explanation of any violations (Reference all attachments here)

PARAMETERS EXCEPT FOR FLOW TO BE SAMPLED MONTHLY DURING A STORM EVENT. (IF NO DISCHARGE, ENTER AN "X" IN THE "NO DISCHARGE" BOX AT THE UPPER RIGHT.) SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS.

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

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY **BROOKHAVEN NATIONAL LABORATORY**

LOCATION UPTON NY 11973 ATTN: MICHAEL HOLLAND, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

						` ,	MAJOR
NY	0005	335				010 M	(SUBR 01)
Per	mit N	lum	ber			Discharge Number	F - FINAL
I	Moni	torir	ng P	erioc	t		STORMWTR R O CENTRAL STEAM (H)
	Fron	ņ		То		**	No Discharge ****
ΥR	МО	DΥ	YR	МО	DY		
05	01	01	05	01	31	Note: Rea	d Instructions before completing this for

PARAMETER		QUAN	ITITY OR LO	ADING	QUA	LITY OR CO	ONCENTRAT	TION	NO. EX	FREQUENCY OF	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
FLOW RATE See Note 2	SAMPLE MEASUREMENT	*****	8000	(07)	*****	*****	*****		0	01/30	IN	
00056 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	REPORT DAILY MX	GPD	*****	*****	*****	****		ONCE/MONTH	INSTAN	
PH	SAMPLE MEASUREMENT	*****	*****		8.0	*****	8.0	(12)	0	01/30	GR	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	REPORT MINIMUM	*****	8.5 MAXIMUM	SU		ONCE/MONTH	GRAB	
OIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 5.0	(19)	0	01/30	GR	
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	15 DAILY MX	MG/L		ONCE/MONTH	GRAB	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECU	TIVE OFFICER	I certify und	er penalty of law th	at this document an	d all attachments we	ere prepared under	my direction					•
Division Manager					ed to assure that qua my inquiry of the per						-	ohone 14-4549
Environmental & Waste Mar	agement	system, or those	persons directly re	sponsible for gathe	ring the information,	the information sul	bmitted is, to the				_	
Services Division		best of my know	ledge and belief, tr	ue, accurate, and c	omplete. I am aware	e that there are sign	nificant penalties	_		al Executive	Date S	Signed
Typed or Printed		for submitting	g false information,	including the possib	oliity of fine and impri	isonment for knowi	ng violations.	Office	er or Author	ized Agent		

Comments and Explanation of any violations (Reference all attachments here)

PARAMETERS EXCEPT FOR FLOW TO BE SAMPLED MONTHLY DURING A STORM EVENT. (IF NO DISCHARGE, ENTER AN "X" IN THE "NO DISCHARGE" BOX AT THE UPPER RIGHT.) SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS.

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY **BROOKHAVEN NATIONAL LABORATORY** LOCATION UPTON NY 11973

MICHAEL HOLLAND, GROUP MGR ATTN:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

MAJOR NY0005835 06A M (SUBR 01) Permit Number Discharge Number F - FINAL **Monitoring Period** LINAC NCCW, FLOOR DNS,ETC(HT1) From *** No Discharge То YR MO DY YR MO DY 05 01 01 05 01 31

Note: Read Instructions before completing this form

PARAMETER			ITITY OR LO				ONCENTRAT		NO. EX	FREQUENCY OF	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
PH	SAMPLE MEASUREMENT	*****	*****		6.7	*****	7.8	(12)	0	04/30	GR	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	REPORT MINIMUM	*****	9.0 MAXIMUM	SU		ONCE/MONTH	GRAB	
OIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 5.0	(19)	0	01/30	GR	
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**** ***	*****	*****	15 DAILY MX	MG/L		ONCE/MONTH	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.083	*****	(03)	*****	*****	*****		0	04/30	RC	
50050 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AV	*****	MGD	*****	*****	*****	**** ***		ONCE/MONTH	RCORDR	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECU		I certify und	er penalty of law that	at this document an	d all attachments we	ere prepared under	my direction					1
Division Manager		and evaluate	the information sub	omitted. Based on i	ed to assure that qua my inquiry of the per	son or persons wh	o manage the					ohone 14-4549
Environmental & Waste Man Services Division	nagement			-	ring the information, omplete. I am aware			_		al Executive	Date S	Signed
Typed or Printed		for submitting	g false information,	including the possib	oliity of fine and impri	isonment for knowi	ing violations.	Office	r or Author	ized Agent		

Comments and Explanation of any violations (Reference all attachments here)

SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if D

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973
ATTN: MICHAEL HOLLAND, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

05 01 01 05 01 31 Note: Read Instructions before completing this form **FREQUENCY** SAMPLE NO. **QUANTITY OR LOADING** QUALITY OR CONCENTRATION PARAMETER ΕX OF **TYPE** AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS **ANALYSIS** PН SAMPLE (12)***** ***** 7.0 ***** 8.2 0 04/30 GR MEASUREMENT 00400 1 0 0 **PERMIT** **** **REPORT** 9.0 ***** ***** ***** ONCE/MONTH **GRAB EFFLUENT GROSS VALUE** REQUIREMENT **** **MINIMUM MAXIMUM** SU OIL & GREASE SAMPLE (19)***** ***** ***** ***** < 5.0 0 01/30 GR **MEASUREMENT** 00556 1 0 0 **PERMIT** **** 15 ***** ***** ***** ***** ONCE/MONTH **GRAB** **** **EFFLUENT GROSS VALUE** REQUIREMENT **DAILY MX** MG/L FLOW. IN CONDUIT OR SAMPLE (03) ***** ***** ***** ***** 0.17 0 04/30 RC THRU TREATMENT PLANT **MEASUREMENT** 50050 1 0 1 **PERMIT REPORT** **** ***** ***** ***** ***** ONCE/MONTH **RCORDR** **** **EFFLUENT GROSS VALUE** REQUIREMENT **DAILY AV** MGD 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 this document and all attachments were prepared under my direction Telephone or supervision in accordance with a system designed to assure that qualified personnel properly gather Division Manager 631-344-4549 and evaluate the information submitted. Based on my inquiry of the person or persons who manage the **Environmental & Waste Management** system, or those persons directly responsible for gathering the information, the information submitted is, to the Signature of Principal Executive Services Division Date Signed best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties

for submitting false information, including the possibliity of fine and imprisonment for knowing violations.

Comments and Explanation of any violations (Reference all attachments here)

SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS.

Typed or Printed

Officer or Authorized Agent