Environmental and Waste Management Services

BROOKHAVEN
NATIONAL LABORATORY

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

October 21, 2003

Mr. Scott Mallette
Director, Operations Management Division
U. S. Department of Energy
Brookhaven Group
Upton, NY 11973

Dear Mr. Mallette:

SUBJECT: NPDES - Discharge Monitoring Report (DMR) for September 2003

Included as Attachment I, please find the DMR for the month of August 2003. Chemical analyses for the reported parameters are conducted by NYS Department of Health certified laboratories. As of June 1, 2003, General Engineering Laboratories (GEL) will be performing most of the analyses on all SPDES samples. The BNL Analytical Services Laboratory will be performing volatile organic compound analyses whereas H2M Labs, Inc. will be performing the BOD_5, Nitrogen series, and fecal coliform analyses. Copies of the analytical reports are contained in Attachments IV and V. Field measured parameters (pH, settleable solids, flow) are recorded and/or measured by the Plant Engineering Division, Sewage Treatment Plant Operators or the Environmental and Waste Management Services Division, Field Sampling Team.

With the exception of one excursion for the total aluminum concentration at Outfall 008, review of the analytical data shows that all parameters met their respective SPDES effluent limitations this reporting period. With regard to aluminum, the sample collected on July 11, 2003, exhibited an aluminum concentration of 2.27 mg/L. A filtered sample collected at the same time had an aluminum concentration of 0.08 mg/L. The excursion is therefore attributed to sediments entrained in the stormwater system. Please see Attachment II for the non-compliance report on this excursion event.

Attachment III contains amended DMR data sheets for Outfalls 002 and 005 for August 2003. After the August DMR was submitted, it was discovered that the calculation for the average daily flow for both outfalls contained an error. The corrected flow data is based on a factor of 100 (factory default) instead of a factor of 1000. It is believed that the flow monitoring equipment reverted to the factory default after the blackout of August 14, 2003.

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

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laboratory. Brookhaven National Laboratory personnel collected all samples. A Quality Assurance inspection is performed periodically on contractor laboratories. The Quality Assurance documentation is available from the Environmental and Waste Management 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 September 2003.

Although it is no longer necessary for BNL to include copies of the laboratory analysis when submitting the DMR, we are including them in the package submitted to you for record-keeping purposes. You do not have to forward the analytical reports to the NYSDEC-Region 1 or SCDHS when submitting the DMR.

Please sign each page of the computer generated DMR where indicated and transmit it to the New York State Department of Environmental Conservation and the Suffolk County Department of Health Services no later than October 28, 2003. 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,

George A. Goode
Environmental & Waste Management Services
Division Manager

GAG/MA:car

Attachment I: Discharge Monitoring Report for September 2003.

Attachment II: Non-Compliance Report for Quarterly SPDES Excursion at Outfall 008.

Attachment III: Amended DMR data sheets for Outfall 002 and 005 for August 2003

Attachment IV: Analytical Results from H2M Labs Inc., the BNL Analytical Services Laboratory, and GEL LLC for samples collected on 9/8/03, 9/10/03, and 9/12/03 from Outfall 001.

Attachment V: Analytical Results from H2M Labs Inc., the BNL Analytical Services Laboratory, GEL LLC, and CHEMTEX, Inc. for samples collected from Outfalls 001A, 001B, 001D, 001F, 002, 002B, 005, 006A, 006B, 008, and 010.

cc:	M. Allocco	w/ attachments	M. Baldwin	w/ attachments
	M. Bebon	w/o attachments	W. Chaloupka	w/ attachments
	S. Dierker	w/o attachments	G. Goode	w/o Attachments
	G. Granzen	w/o attachments	C. Johnson	w/o attachments
	R. Lee	w/ attachments	K. Klaus	w/ attachments

E. Lessard	w/o attachments	D. Lowenstein	w/o attachments
E. Murphy	w/ attachments	A. Queirolo	w/o attachments
V. Radeka	w/o attachments	B. Style	w/o attachments
J. Tarpinian	w/o attachments	D. Van Duyne	w/ attachments

EC62ER.03

ATTACHMENT I

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR SEPTEMBER 2003

FOR OUTFALLS NO. 001 – 010

Brookhaven National Laboratory
SPDES Permit No. NY0005835
Discharge Monitoring Report for September 2003
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. PCBs were not detected above the detection limit for any congener. Total PCBs have been reported as less than the maximum of the individual detection limits.

5. Two individual photographic processors generate photographic rinse waters discharged from Building 197B. Wastewater samples are collected from each processor and analyzed separately. Table I summarizes the individual results. The maximum concentrations and total average flow have been reported in the DMR.

Location	Flow	pH	Total Nitrogen	Cyanide	Silver	Phenolics
1-87[a]	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
1-93B	5.4 GPD	7.4 SU	1.34 mg/L	< 1.72 µg/L	16.4 µg/L	< 0.002 µg/L
Total Flow	5.4 GPD					

[a]The photographic processor in Bldg. 197, Room 1-87 was shutdown during the third quarter of 2003 and is scheduled for dismantling.

6. The total aluminum concentration at Outfall 008 was 2.27 mg/L on 7/11/2003, which exceeded the permit limit of 2.0 mg/L. Please see Attachment II for an explanation of this excursion.

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN AREA OFFICE

UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

NY0005835 Permit Number	001 A Discharge Number	MAJOR (SUBR 01) F - FINAL

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

ACID/CAUSTIC CLEANG RINSE 535B

*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
FLOW RATE	SAMPLE MEASUREMENT	124	******	(07)	******	******	******		0	01/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AV	******	**** GPD	******	******				QTRLY	RCORDR
PH	SAMPLE MEASUREMENT	******	******		6.1	******	6.1	(12)	0	01/90	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	REPORT MINIMUM	******	REPORT MAXIMUM	SU		QTRLY	GRAB
BIS (2-ETHYLHEXYL) PHTHALATE	SAMPLE MEASUREMENT	******	******		******	******	11	(28)	0	01/90	GR
39100 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
DI-N-BUTYL PHTHALATE See Note 1	SAMPLE MEASUREMENT	******	******		******	******	1	(28)	0	01/90	GR
39110 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	Date Signed

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

NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL. SAMPLES TO BE COLLECTED FROM A DEDICATED DRAIN OR HOLDING TANKS PRIOR TO DISCH TO SEWER COLLECTION SYSTEM. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	001 B
Permit Number	Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
RINSE FROM CENTRL DEGREASR 498
*** No Discharge ☐ ****

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW RATE	SAMPLE MEASUREMENT	265	******	(07)	******	******	******		0	01/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AV	******	GPD	******	******		**** ****		QTRLY	RCORDR
PH	SAMPLE MEASUREMENT	******	******		6.9	******	6.9	(12)	0	01/90	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	REPORT MINIMUM	******	REPORT MAXIMUM	SU		QTRLY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT	******	******		******	******	116	(28)	0	01/90	GR
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****		******	REPORT DAILY MX	UG/L		QTRLY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	******	******		******	******	314	(28)	0	01/90	GR
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	******	******		******	******	5218	(28)	0	01/90	GR
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
MANGANESE, TOTAL (AS MN)	SAMPLE MEASUREMENT	******	******		******	******	54.6	(28)	0	01/90	GR
01055 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
NICKEL, TOTAL (AS NI) See Note 1	SAMPLE MEASUREMENT	******	******		******	******	34.3	(28)	0	01/90	GR
01067 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mr. Michael Holland
Area Group Manager

Typed or Printed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Principal Executive Officer or Authorized Agent

Telephone
631-344-3424

Date Signed

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BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	001 B
Permit Number	Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
RINSE FROM CENTRL DEGREASR 498
*** No Discharge ☐ ****

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ZINC, TOTAL (AS ZN)	SAMPLE MEASUREMENT	******	******		******	******	64.1	(28)	0	01/90	GR
01092 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
1,2-DICHLOROETHANE	SAMPLE MEASUREMENT	******	******		******	******	< 1	(28)	0	01/90	GR
32103 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
CHLOROFORM	SAMPLE MEASUREMENT	******	******		******	******	< 1	(28)	0	01/90	GR
32106 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
1,1,1-TRICHLORO-ETHANE	SAMPLE MEASUREMENT	******	******		******	******	1.7	(28)	0	01/90	GR
34506 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
DICHLOROBROMOMETHANE EFFLUENT	SAMPLE MEASUREMENT	******	******		******	******	< 1.0	(28)	0	01/90	GR
32101 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
BIS (2-ETHYLHEXYL) PHTHALATE See Note 1	SAMPLE MEASUREMENT	******	******		******	******	1.8	(28)	0	01/90	GR
39100 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
DI-N-BUTYL PHTHALATE	SAMPLE MEASUREMENT	******	******		******	******	< 10	(28)	0	01/90	GR
39110 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mr. Michael Holland
Area Group Manager

Typed or Printed

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Signature of Principal Executive Officer or Authorized Agent

Telephone
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Date Signed

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LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	001 B Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
RINSE FROM CENTRL DEGREASR 498
*** No Discharge ☐ ****

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT	******	******		******	******	< 1.0	(28)	0	01/90	GR
85814 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mr. Michael Holland
Area Group Manager

Typed or Printed

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LOCATION UPTON NY 11973
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

NY0005835 Permit Number	001 D Discharge Number

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
PHOTOPROCESSNG RINSE FROM 197B
*** No Discharge ☐ ****

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PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
FLOW RATE See Note 5	SAMPLE MEASUREMENT	5.4	******	(07)	******	******	******		0	01/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AV	******	GPD	******	******	******	**** ****		QTRLY	RCORDR
PH See Note 5	SAMPLE MEASUREMENT	******	******		7.4	******	7.4	(12)	0	01/90	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	REPORT MINIMUM	******	REPORT MAXIMUM	SU		QTRLY	GRAB
NITROGEN, TOTAL (AS N) See Note 5	SAMPLE MEASUREMENT	******	******		******	******	1.3	(19)	0	01/90	GR
00600 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****		******	REPORT DAILY MX	MG/L		QTRLY	GRAB
CYANIDE, TOTAL (AS CN) See Note 5	SAMPLE MEASUREMENT	******	******		******	******	< 1.72	(28)	0	01/90	GR
00720 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
SILVER, TOTAL (AS AG) See Note 5	SAMPLE MEASUREMENT	******	******		******	******	16.4	(28)	0	01/90	GR
01077 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
PHENOLICS, TOTAL RECOVERABLE See Note 5	SAMPLE MEASUREMENT	******	******		******	******	<0.002	(28)	0	01/90	GR
32730 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblity of fine and imprisonment for knowing violations.		Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	Date Signed

Comments and Explanation of any violations (Reference all attachments here)
NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL. SAMPLES TO BE COLLECTED FROM MANHOLE NEAREST THE BUILDING. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	001 E Discharge Number

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
BOILER BLOWDN FROM 244,405,ETC
*** No Discharge ☐ ****

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PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
FLOW RATE	SAMPLE MEASUREMENT	30	******	(07)	******	******	******		0	01/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AV	******	GPD	******	******	******	**** ****		QTRLY	RCORDR
PH	SAMPLE MEASUREMENT	******	******		9.5	******	10.0	(12)	0	01/90	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	REPORT MINIMUM	******	REPORT MAXIMUM	SU		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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

NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL. SAMPLES TO BE COLLECTED FROM A DEDICATED DRAIN OR HOLDING TANKS PRIOR TO DISCHARGE TO SEWER COLLECTION SYSTEM. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	001 F
Permit Number	Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
COOLING TOWER WTR & BLOWDN 902
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW RATE	SAMPLE MEASUREMENT	5265	******	(07)	******	******	******		0	01/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AV	******	GPD	******	******	******	**** ****		QTRLY	RCORDR
PH	SAMPLE MEASUREMENT	******	******		8.0	******	8.0	(12)	0	01/90	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	REPORT MINIMUM	******	REPORT MAXIMUM	SU		QTRLY	GRAB
PROPYLENE GLYCOL MONOBUTYL ETHER	SAMPLE MEASUREMENT	******	******		******	******	< 500	(28)	0	01/90	GR
49875 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	UG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent / Date Signed

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

NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL. SAMPLES TO BE COLLECTED FROM A DEDICATED DRAIN OR HOLDING TANKS PRIOR TO DISCHARGE TO SEWER COLLECTION SYSTEM. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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

NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	001 M Discharge Number

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
PROCESS SANIT & STORMWTR RNOFF
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	******	******		******	******	73	(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	03/30	24
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	10 DAILY AV	20 DAILY MX	MG/L		ONCE/ MONTH	COMP24
PH	SAMPLE MEASUREMENT	******	******		6.1	******	6.7	(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 See Note 1	SAMPLE MEASUREMENT	******	******		******	0.65	1.0	(19)	0	03/30	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		DAILY	GRAB
NITROGEN, TOTAL (AS N)	SAMPLE MEASUREMENT	******	******		******	******	5.5	(19)	0	03/30	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	******	******		******	******	< 0.10	(19)	0	03/30	24
00610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	2 DAILY MX	MG/L		ONCE/ MONTH	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		
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Typed or Printed	Signature of Principal Executive Officer or Authorized Agent	Date Signed

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.
APPROX 15% OF STP DISCHARGE CAN BE TO GW VIA EXFILT FROM SFBS. SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS.

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	001 M Discharge Number

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
PROCESS SANIT & STORMWTR RNOFF
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	******	******		******	******	0.78	(19)	0	03/30	24
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	MG/L		ONCE/ MONTH	COMP24
CYANIDE, TOTAL (AS CN)	SAMPLE MEASUREMENT	******	******		******	******	< 1.72	(28)	0	03/30	GR
00720 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	100 DAILY MX	UG/L		TWICE/ MONTH	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	******	******		******	******	0.043	(19)	0	03/30	24
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****		******	0.15 DAILY MX	MG/L		ONCE/ MONTH	COMP24
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	******	******		******	******	0.16	(19)	0	03/30	24
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.37 DAILY MX	MG/L		ONCE/ MONTH	COMP24
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT	******	******		******	******	0.0021	(19)	0	03/30	24
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.019 DAILY MX	MG/L		ONCE/ MONTH	COMP24
NICKEL, TOTAL (AS NI) See Note 1	SAMPLE MEASUREMENT	******	******		******	******	0.0037	(19)	0	03/30	24
01067 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.11 DAILY MX	MG/L		ONCE/ MONTH	COMP24
SILVER, TOTAL (AS AG) See Note 1	SAMPLE MEASUREMENT	******	******		******	******	0.0021	(19)	0	03/30	24
01077 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.015 DAILY MX	MG/L		ONCE/ MONTH	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mr. Michael Holland
Area Group Manager

Typed or Printed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblity of fine and imprisonment for knowing violations.

Signature of Principal Executive Officer or Authorized Agent

Telephone
631-344-3424

Date Signed

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.
APPROX 15% OF STP DISCHARGE CAN BE TO GW VIA EXFILT FROM SFBS. SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS.

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	001 M Discharge Number

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
PROCESS SANIT & STORMWTR RNOFF
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
ZINC, TOTAL (AS ZN)	SAMPLE MEASUREMENT	******	******		******	******	0.06	(19)	0	03/30	24
01092 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.1 DAILY MX	MG/L		ONCE/ MONTH	COMP24
TOLUENE	SAMPLE MEASUREMENT	******	******		******	******	< 2	(28)	0	03/30	GR
34010 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	5 DAILY MX	UG/L		TWICE/ MONTH	GRAB
METHYLENE CHLORIDE	SAMPLE MEASUREMENT	******	******		******	******	< 2	(28)	0	03/30	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	******	******		******	******	< 2	(28)	0	03/30	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	0.36	0.45	(03)	******	******	******		0	99/99	RC
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AV	2.3 DAILY MX	MGD	******	******	******	**** ****		CONTINU-OUS	RCORDR
MERCURY, TOTAL (AS HG) See Note 1	SAMPLE MEASUREMENT	******	******		******	******	0.0001	(19)	0	03/30	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	03/30	GR
74055 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	200 DAILY AV	400 DAILY MX	#/ 100ML		ONCE/ MONTH	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent / Date Signed

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

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	001 M
Permit Number	Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
PROCESS SANIT & STORMWTR RNOFF
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
2-BUTANONE	SAMPLE MEASUREMENT	******	******		******	******	< 2	(28)	0	03/30	GR
78356 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	50 DAILY MX	UG/L		TWICE/ MONTH	GRAB
BOD, 5-DAY PERCENT REMOVAL	SAMPLE MEASUREMENT	******	******		> 95	******	******	(23)	0	01/30	CA
81010 K 0 0 PERCENT REMOVAL	PERMIT REQUIREMENT	******	******	**** ****	85 MO AV MN	******	******	PERCENT		ONCE/ MONTH	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL	SAMPLE MEASUREMENT	******	******		> 98	******	******	(23)	0	01/30	CA
81011 K 0 0 PERCENT REMOVAL	PERMIT REQUIREMENT	******	******	**** ****	85 MO AV MN	******	******	PERCENT		ONCE/ MONTH	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	Date Signed

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.
APPROX 15% OF STP DISCHARGE CAN BE TO GW VIA EXFILT FROM SFBS. SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS.

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

NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	001 Q
Permit Number	Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
PROCESS SANIT EFFL & STORMWTR
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
POLYCHLORINATED BIPHENYLS (PCBS) 39516 1 0 0 See Note 4 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******	**** ****	******	******	< 0.08	(28) UG/L	0	03/90	GR
	PERMIT REQUIREMENT	******	******		******	******	REPORT DAILY MX			QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			
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Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	Date Signed

Comments and Explanation of any violations (Reference all attachments here)
PCB ANALYSIS TO USE EPA METHOD 608 WITH AN MDL GOAL OF 0.065 PPB

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	002 B Discharge Number

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
RF(1004) & BRAHMS(1002) BLOWDN
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.4	******	7.4	(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 See Note 1	SAMPLE MEASUREMENT	******	******		******	******	1.6	(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	******	0.002	(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 EXECUTIVE OFFICER			
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	Date Signed

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

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

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

NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	002 M Discharge Number

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
AGS NON-C COOLING,PRCP,ETC (HN)
*** No Discharge ☐ ****

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PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		6.6	******	7.3	(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 See Note 1	SAMPLE MEASUREMENT	******	******		******	******	2.4	(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	0.09	******	(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 EXECUTIVE OFFICER

Mr. Michael Holland
Area Group Manager

Typed or Printed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Principal Executive Officer or Authorized Agent

Telephone
631-344-3424

Date Signed

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 LOCTION DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES WITH THE COOLING TOWER BLOWDOWN FROM THE STAR DETECTOR.

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	002 Q Discharge Number

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
AGS NON-C COOLG,PRECP ETC (HN)
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
ALUMINUM, TOTAL (AS AL) See Note 1	SAMPLE MEASUREMENT	******	******		******	******	0.016	(19)	0	01/90	GR
01105 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	2.0 DAILY MX	MG/L		QTRLY	GRAB
CHLOROFORM	SAMPLE MEASUREMENT	******	******		******	******	< 2	(28)	0	01/90	GR
32106 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	50 DAILY MX	UG/L		QTRLY	GRAB
1,1,1-TRICHLORO-ETHANE	SAMPLE MEASUREMENT	******	******		******	******	< 2	(28)	0	01/90	GR
34506 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****		******	7 DAILY MX	UG/L		QTRLY	GRAB
DICHLOROBROMOMETHANE EFFLUENT	SAMPLE MEASUREMENT	******	******		******	******	< 2	(28)	0	01/90	GR
32101 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	5 DAILY MX	UG/L		QTRLY	GRAB
1-HYDROXY-ETHYLIDENE	SAMPLE MEASUREMENT	******	******		******	******	< 0.05	(19)	0	01/90	GR
85812 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.5 DAILY MX	MG/L		QTRLY	GRAB
TOLYTRIAZOLE	SAMPLE MEASUREMENT	******	******		******	******	< 0.005	(19)	0	01/90	GR
85813 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.2 DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mr. Michael Holland
Area Group Manager

Typed or Printed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Principal Executive Officer or Authorized Agent

Telephone
631-344-3424

Date Signed

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

NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS.
SAMPLING TO BE DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES WITH COOLING TOWER BLOWDOWN FROM STAR DETECTOR.

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	002 R Discharge Number

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
RF(1004) & BRAHMS(1002) BLOWDN
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
1-HYDROXY-ETHYLIDENE	SAMPLE MEASUREMENT	******	******		******	******	< 0.05	(19)	0	01/90	GR
85812 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.5 DAILY MX	MG/L		QTRLY	GRAB
TOLYTRIAZOLE	SAMPLE MEASUREMENT	******	******		******	******	< 0.005	(19)	0	01/90	GR
85813 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.2 DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mr. Michael Holland
Area Group Manager

Typed or Printed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblity of fine and imprisonment for knowing violations.

Signature of Principal Executive Officer or Authorized Agent

Telephone
631-344-3424

Date Signed

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

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

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	005 M Discharge Number	MAJOR (SUBR 01) F - FINAL

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

NSLS COOLING TOWR BLDN ETC (HS)

*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.9	******	8.5	(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 See Note 1	SAMPLE MEASUREMENT	******	******		******	******	1.5	(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	0.20	******	(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 EXECUTIVE OFFICER			
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	Date Signed

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 Different)*

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	005 Q Discharge Number	MAJOR (SUBR 01) F - FINAL

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

NSLS COOLG TOWR BLOWDN ETC (HS)

*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	******	******		******	******	0.0055	(19)	0	01/90	GR
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	1.0 DAILY MX	MG/L		QTRLY	GRAB
1-HYDROXY-ETHYLIDENE	SAMPLE MEASUREMENT	******	******		******	******	< 0.05	(19)	0	01/90	GR
85812 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.5 DAILY MX	MG/L		QTRLY	GRAB
TOLYTRIAZOLE	SAMPLE MEASUREMENT	******	******		******	******	< 0.005	(19)	0	01/90	GR
85813 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.2 DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mr. Michael Holland
Area Group Manager

Typed or Printed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblity of fine and imprisonment for knowing violations.

Signature of Principal Executive Officer or Authorized Agent

Telephone 631-344-3424

Date Signed

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

NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS.

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

NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	007 M
Permit Number	Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
WATER TREATMENT PLT BKWSH (HX)
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW RATE	SAMPLE MEASUREMENT	******	200000	(07)	******	******	******		0	21/30	IN
00056 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	REPORT DAILY MX	GPD	******	******	******	**** ****		ONCE/ MONTH	INSTAN
PH	SAMPLE MEASUREMENT	******	******		7.0	******	7.0	(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										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent / Date Signed

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

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

NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	008 M Discharge Number

MAJOR
(SUBR 01)
F - FINAL
STORMWTR RUNOFF WAREHOUSE (HW)
*** No Discharge ☐ ****

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW RATE See Note 2	SAMPLE MEASUREMENT	******	514	(07)	******	******	******		0	01/30	IN
00056 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	REPORT DAILY MX	GPD	******	******	******	**** ****		ONCE/ MONTH	INSTAN
PH	SAMPLE MEASUREMENT	******	******		6.7	******	6.7	(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 See Note 1	SAMPLE MEASUREMENT	******	******		******	******	1.4	(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	******	******		******	******	< 2	(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	******	******		******	******	< 2	(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 EXECUTIVE OFFICER			
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	Date Signed

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 Name/Location if Different)*

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	008 Q Discharge Number	MAJOR (SUBR 01) F - FINAL

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

SW RUNOFF FROM WAREHOUSE AREA

*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
ALUMINUM, TOTAL (AS AL) See Note 6	SAMPLE MEASUREMENT	******	******		******	******	2.3	(19)	1	01/90	GR
01105 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	2.0 DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mr. Michael Holland
Area Group Manager

Typed or Printed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Principal Executive Officer or Authorized Agent

Telephone 631-344-3424

Date Signed

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

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

NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	010 M Discharge Number

Monitoring Period From YR	MO	DAY	To YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
STORMWTR R O CENTRAL STEAM (H)
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
FLOW RATE See Note 2	SAMPLE MEASUREMENT	******	15912	(07)	******	******	******		0	01/30	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	******	8.5 MAXIMUM	SU		ONCE/ MONTH	GRAB
OIL & GREASE See Note 1	SAMPLE MEASUREMENT	******	******		******	******	2.1	(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 EXECUTIVE OFFICER

Mr. Michael Holland
Area Group Manager

Typed or Printed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Principal Executive Officer or Authorized Agent

Telephone
631-344-3424

Date Signed

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 Name/Location if Different)*

NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	010 Q	MAJOR
Permit Number	Discharge Number	(SUBR 01)
		F - FINAL

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

SW RUNOFF FROM CENTRAL STM (H)
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
COPPER, TOTAL (AS CU) See Note 1	SAMPLE MEASUREMENT	******	******		******	******	0.010	(19)	0	01/90	GR
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	1.0 DAILY MX	MG/L		QTRLY	GRAB
LEAD, TOTAL (AS PB) See Note 1	SAMPLE MEASUREMENT	******	******		******	******	0.0018	(19)	0	01/90	GR
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.05 DAILY MX	MG/L		QTRLY	GRAB
VANADIUM, TOTAL (AS V) See Note 1	SAMPLE MEASUREMENT	******	******		******	******	0.017	(19)	0	01/90	GR
01087 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT DAILY MX	MG/L		QTRLY	GRAB
ALUMINUM, TOTAL (AS AL) See Note 1	SAMPLE MEASUREMENT	******	******		******	******	0.082	(19)	0	01/90	GR
01105 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	2.0 DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	Date Signed

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

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

NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	06A M
Permit Number	Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
LINAC NCCW, FLOOR DNS,ETC (HT1)
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	******	******		7.0	******	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 See Note 1	SAMPLE MEASUREMENT	******	******		******	******	2.3	(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	0.001	******	(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										

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Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	Date Signed

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 Different)*

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	06A Q
Permit Number	Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
LINAC NCCW, FLOOR DNS, SW (HT1)
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1-HYDROXY-ETHYLIDENE	SAMPLE MEASUREMENT	******	******		******	******	< 0.05	(19)	0	01/90	GR
85812 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.5 DAILY MX	MG/L		QTRLY	GRAB
TOLYTRIAZOLE	SAMPLE MEASUREMENT	******	******		******	******	< 0.005	(19)	0	01/90	GR
85813 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.2 DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		
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Typed or Printed		Signature of Principal Executive Officer or Authorized Agent / Date Signed

Comments and Explanation of any violations (Reference all attachments here)
NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL.
SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	06B M
Permit Number	Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
COOLING TOWR FROM 919 ETC (HT2)
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	******	******		7.0	******	7.2	(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 See Note 1	SAMPLE MEASUREMENT	******	******		******	******	2.1	(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	0.07	******	(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 EXECUTIVE OFFICER			
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Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	Date Signed

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 Different)*

NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835	06B Q
Permit Number	Discharge Number

Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	07	01	03	09	30

MAJOR
(SUBR 01)
F - FINAL
COOLG TOWRS FROM 919 ETC (HT2)
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1-HYDROXY-ETHYLIDENE	SAMPLE MEASUREMENT	******	******		******	******	0.09	(19)	0	01/90	GR
85812 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.5 DAILY MX	MG/L		QTRLY	GRAB
TOLYTRIAZOLE	SAMPLE MEASUREMENT	******	******		******	******	< 0.005	(19)	0	01/90	GR
85813 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	0.2 DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Telephone 631-344-3424
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent / Date Signed

Comments and Explanation of any violations (Reference all attachments here)
NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL.
SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS.

ATTACHMENT II

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR SEPTEMBER 2003

NON-COMPLIANCE REPORT

SECTION 1

New York State Department of Environmental Conservation
Division of Water

Report of Noncompliance Event

To: DEC Water Contact R. Sorrentino ***DEC Region:*** 1

Report Type: ___ *5 Day* X *Permit Violation* ___ *Order Violation* ___ *Anticipated Noncompliance* ___ *Bypass/Overflow*

SECTION 2

SPDES #: NY- 0005835 Facility: U.S. Department of Energy/Brookhaven National Laborato

Date of noncompliance: 7/ 11/ 03 Location (Outfall, Treatment Unit, or Pump Station): 008

Description of noncompliance(s) and cause(s): The total aluminum concentration at outfall 008 was 2.27 mg/L, which exceeds the permit level of 2.0 mg/L. A filtered sample was also collected at the same time with an aluminum concentration of 0.08 mg/L. Therefore, the excursion is due to sediments entrained within the storm water system.

Has event ceased? (Yes) (No) If so, when? _____ Was event due to plant upset? (Yes) (No) SPDES limits violated? (Yes) (No)

Start date, time of event: 7 / 11/ 03 10 :10 (AM) (PM) End date, time of event: ___/___/___, ___:___ (AM) (PM)

Date, time oral notification made to DEC? ___/___/___, ___:___ (AM) (PM) DEC Official contacted: _____

Immediate corrective actions: None

Preventive (long term) corrective actions: This outfall receives stormwater runoff from the ware housing areas. Aluminum and iron are natural components of soil which become entrained in the runoff. The sediments settle out in the recharge basin and do not impact the quality of groundwater.

SECTION 3
Complete this section if event was a bypass:

Bypass amount: _____ Was prior DEC authorization received for this event? (Yes) (No)

DEC Official contacted: _____ Date of DEC approval: ___/___/___

Describe event in "Description of noncompliance and cause" area in Section 2. Detail the start and end dates and times in Section 2 also.

SECTION 4

Facility Representative: _____ Title: _____ Date: ___/___/___

Phone #: (___) ___-___ Fax #: (___) ___-___

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

X _____

Signature of Principal Executive Officer or Authorized Agent

ATTACHMENT III

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

AMENDED DISCHARGE MONITORING REPORT FOR AUGUST 2003

FOR OUTFALLS 002 AND 005

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

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	005 M Discharge Number

Monitoring Period From YR	MO	DY	To YR	MO	DY
03	08	01	03	08	31

MAJOR
(SUBR 01)
F - FINAL
NSLS COOLING TOWR BLDN ETC(HS)
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.1	******	8.3	(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 See Note 1	SAMPLE MEASUREMENT	******	******		******	******	3.1	(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	0.20	******	(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 EXECUTIVE OFFICER		
Mr. Michael Holland Area Group Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Telephone 631-344-3424
Typed or Printed	Signature of Principal Executive Officer or Authorized Agent	Date Signed

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 Different)*

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN AREA OFFICE
UPTON NY 11973

FACILITY BROOKHAVEN NATIONAL LABORATORY

LOCATION UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

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

NY0005835 Permit Number	002 M Discharge Number

Monitoring Period From YR	MO	DY	To YR	MO	DY
03	08	01	03	08	31

MAJOR
(SUBR 01)
F - FINAL
AGS NON-C COOLNG,PRCP,ETC (HN)
*** No Discharge ☐ ****

Note: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		6.8	******	7.6	(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 See Note 1	SAMPLE MEASUREMENT	******	******		******	******	3.4	(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	1.4	******	(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 EXECUTIVE OFFICER		
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Typed or Printed	Signature of Principal Executive Officer or Authorized Agent	Date Signed

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.

ATTACHMENT IV

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR SEPTEMBER 2003

ANALYTICAL RESULTS FROM H2M LABS,

THE BNL ANALYTICAL SERVICES LABORATORY,

AND GEL LLC

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

9/8/03, 9/10/03, AND 9/12/03

FROM OUTFALL 001

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : S. Scarpitta

Lab No. : 0309213-001

Client ID. : 17582-001

Sample Information...
Type : Aqueous

Origin:

Collected 9/8/2003 10:40:00 AM
Received 9/8/2003 3:15:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2	mg/L	E405.1	9/10/2003 6:40:00 AM
Nitrogen, Total	3.0	mg/L	M4500-N C	9/18/2003
Nitrogen, Ammonia (As N)	< 0.10	mg/L	E350.1	9/17/2003 1:37:47 PM
Nitrite as N	0.01	mg/L	E353.2	9/9/2003 6:34:51 PM
Nitrate as N	2.78	mg/L	E353.2	9/16/2003 3:52:46 PM
Nitrogen, Kjeldahl, Total	0.24	mg/L	E351.2	9/18/2003 3:09:36 PM

Outfall 001
Sampled 9-8-03
24Hr. Composite

Qualifiers: E - Value above quantitation range
D - Results for Dilution

Date Reported : 9/22/2003

Joann M. Slavin
Laboratory Manager

BNLS773 S28

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : S. Scarpitta

Lab No. : **0309310-001**

Client ID. : 17597-001

Sample Information...
Type : Aqueous

Origin:

Collected 9/10/2003 10:24:00 AM
Received 9/10/2003 3:31:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2	mg/L	E405.1	9/11/2003 8:11:00 AM
Nitrogen, Total	3.6	mg/L	M4500-N C	9/18/2003
Nitrogen, Ammonia (As N)	< 0.10	mg/L	E350.1	9/17/2003 1:40:24 PM
Nitrite as N	0.04	mg/L	E353.2	9/11/2003 4:15:48 PM
Nitrate as N	3.39	mg/L	E353.2	9/16/2003 3:54:46 PM
Nitrogen, Kjeldahl, Total	0.16	mg/L	E351.2	9/18/2003 3:11:37 PM

Outfall 001
Sampled 9-10-03
24 hr. Composite

Qualifiers: E - Value above quantitation range
D - Results for Dilution

Date Reported : 9/22/2003

Joann M. Slavin
Laboratory Manager

BNLS773 S32

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : S. Scarpitta

Lab No. : **0309385-001**

Sample Information...
Type : Aqueous

Origin:

Client ID. : 17607-001

Collected 9/12/2003 10:00:00 AM
Received 9/12/2003 3:30:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2	mg/L	E405.1	9/13/2003 8:22:00 AM
Nitrogen, Total	5.5	mg/L	M4500-N C	9/18/2003
Nitrogen, Ammonia (As N)	< 0.10	mg/L	E350.1	9/17/2003 1:41:15 PM
Nitrite as N	0.01	mg/L	E353.2	9/13/2003 10:18:37 AM
Nitrate as N	5.33	mg/L	E353.2	9/16/2003 3:55:27 PM
Nitrogen, Kjeldahl, Total	0.18	mg/L	E351.2	9/18/2003 3:12:17 PM

Outfall 001
Sampled 9-12-03
24 hr. Composite

Qualifiers: E - Value above quantitation range
D - Results for Dilution

Joann M. Slavin
Laboratory Manager

Date Reported : 9/22/2003

BNLS773 S35

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : S. Scarpitta

Lab No. : 0309213-002

Client ID. : 17582-002

Sample Information...
Type : Aqueous

Origin:

Collected 9/8/2003 1:45:00 PM
Received 9/8/2003 3:15:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Fecal Coliform	< 2	MPN	M9221 C	9/8/2003 4:00:00 PM

Outfall 001
Sampled 9-8-03
Grab Sample

Qualifiers: E - Value above quantitation range
D - Results for Dilution

Date Reported : 9/22/2003

Joann M. Slavin
Laboratory Manager

BNLS773 S29

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : S. Scarpitta

Lab No. : **0309310-002**

Client ID. : 17597-002

Sample Information...
Type : Aqueous

Origin:

Collected 9/10/2003 2:00:00 PM
Received 9/10/2003 3:31:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Fecal Coliform	< 2	MPN	M9221 C	9/10/2003 3:45:00 PM

Outfall 001
Sampled 9-10-03
Grab Sample

Qualifiers: E - Value above quantitation range
D - Results for Dilution

Date Reported : 9/22/2003

Joann M. Slavin
Laboratory Manager

BNLS773 S33

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : S. Scarpitta

Lab No. : 0309385-002

Client ID. : 17607-002

Sample Information...
Type : Aqueous

Origin:

Collected 9/12/2003 1:25:00 PM
Received 9/12/2003 3:30:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Fecal Coliform	< 2	MPN	M9221 C	9/12/2003 4:00:00 PM

Outfall 001
Sampled 9-12-03
Grab Sample

Qualifiers: E - Value above quantitation range
D - Results for Dilution

Date Reported : 9/22/2003

Joann M. Slavin
Laboratory Manager

BNLS773 S36

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 18, 2003

Contact: John Burke
Project: SPDES

Client Sample ID:	17581-001	Project:	BRKL00404
Sample ID:	87574001	Client ID:	BRKL004
Matrix:	Water	COC:	17581
Collect Date:	08-SEP-03 10:40	Samp Recv.:	17581
Receive Date:	09-SEP-03 09:00	Client Desc.:	STP EFFLUENT
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis Federal											
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	J	1.00	0.424	2.78	mg/L		SDS	09/15/03	1405	277104	1
TRAACS Nutrient Analysis Fed											
EPA 365.4 Phosphorus, Total in											
Phosphorus, Total as PO4		0.779	0.0162	0.050	mg/L	1	THL	09/17/03	0930	277387	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid-Fe	EXN1	09/16/03	1200	277385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	
2	EPA 365.4	

Outfall 001
Sampled 9-8-03
24 Hr. Composite

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 29, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17596-001
Sample ID: 87764001
Matrix: Water
Collect Date: 10-SEP-03 10:24
Receive Date: 11-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17596
Samp Recv.: 17596
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis Federal											
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	U	0.100	0.382	2.50	mg/L		SDS	09/15/03	1405	277104	1
TRAACS Nutrient Analysis Fed											
EPA 365.4 Phosphorus, Total in											
Phosphorus, Total as PO4		0.551	0.0162	0.050	mg/L	1	THL	09/17/03	0932	277387	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid-Fe	EXN1	09/16/03	1200	277385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	
2	EPA 365.4	

Outfall 001
Sampled 9-10-03
24 hr. Composite

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 22, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17608-001
Sample ID: 87936001
Matrix: Water
Collect Date: 12-SEP-03 10:00
Receive Date: 13-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17608
Samp Recv.: 17608
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Solids Analysis Federal										
EPA 160.2 Total Suspended Liq										
Total Suspended Solids	J	0.556	0.424	2.78	mg/L		SDS 09/17/03	1103	277722	1
TRAACS Nutrient Analysis Fed										
EPA 365.4 Phosphorus, Total in										
Phosphorus, Total as PO4		0.587	0.0162	0.050	mg/L	1	THL 09/17/03	0934	277387	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid-Fe	EXN1	09/16/03	1200	277385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	
2	EPA 365.4	

Outfall 001
Sampled 9-12-03
24 Hr. Composite

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973–5000

Report Date: September 18, 2003

Contact: John Burke
Project: SPDES

Client Sample ID:	17581-002	Project:	BRKL00404
Sample ID:	87574002	Client ID:	BRKL004
Matrix:	Water	COC:	17581
Collect Date:	08-SEP-03 13:45	Samp Recv.:	17581
Receive Date:	09-SEP-03 09:00	Client Desc.:	STP EFFLUENT
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rapid Flow Analysis Federal											
SW9012A Cyanide, Total Federal											
Cyanide, Total	U	ND	1.72	5.00	ug/L	1	ADF	09/17/03	1309	277287	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	EXN1	09/17/03	1000	277286

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Notes:
The Qualifiers in this report are defined as follows :

Outfall 001
Sampled 9-8-03
Grab Sample

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 29, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17596-002
Sample ID: 87764002
Matrix: Water
Collect Date: 10-SEP-03 14:00
Receive Date: 11-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17596
Samp Recv.: 17596
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rapid Flow Analysis Federal											
SW9012A Cyanide, Total Federal											
Cyanide, Total	U	0.719	1.72	5.00	ug/L	1	ADF	09/17/03	1317	277287	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	EXN1	09/17/03	1000	277286

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Outfall 001
Sampled 9-10-03
Grab Sample

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973–5000

Report Date: September 24, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17608-002
Sample ID: 87936002
Matrix: Water
Collect Date: 12-SEP-03 13:25
Receive Date: 13-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17608
Samp Recv.: 17608
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rapid Flow Analysis Federal											
SW9012A Cyanide, Total Federal											
Cyanide, Total	U	1.26	1.72	5.00	ug/L	1	ADF	09/17/03	1321	277287	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	EXN1	09/17/03	1000	277286

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Outfall 001
Sampled 9-12-03
Grab Sample

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

1A

Volatile Organics Analysis Data Sheet

Method 624 (CLP)

Brookhaven National Laboratory
Environment Safety and Health Services Division
Non-Radiological Analytical Services Laboratory

Analytical Services Lab ID: 23090809-01

Matrix: (soil/water) water

Date Analyzed: 9/17/2003

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: 30917B07.D

Level: (low/med) low

Dilution Factor: 1

Dilution information: N/A

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethylene	2	U
67-64-1	Acetone	2	U
75-09-2	Methylene Chloride	2	U
1634-04-4	MTBE	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-4	cis-1,2-Dichloroethylene	2	U
78-93-3	2-Butanone	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon Tetrachloride	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethylene	2	U
78-87-5	1,2-Dichloropropane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethylene	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
108-38-3/106-42-3	p- + m-Xylene	2	U
95-47-6	o-Xylene	2	U
75-25-2	Bromoform	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U

Outfall 001
Sampled 9-8-03
Grab Sample

1A

Volatile Organics Analysis Data Sheet

Method 624 (CLP)

Brookhaven National Laboratory
Environment Safety and Health Services Division
Non-Radiological Analytical Services Laboratory

Analytical Services Lab ID: **23091010-01**

Matrix: (soil/water) water

Date Analyzed: 9/17/2003

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: 30917B12.D

Level: (low/med) low

Dilution Factor: 1

Dilution information: N/A

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethylene	2	U
67-64-1	Acetone	2	U
75-09-2	Methylene Chloride	2	U
1634-04-4	MTBE	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-4	cis-1,2-Dichloroethylene	2	U
78-93-3	2-Butanone	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon Tetrachloride	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethylene	2	U
78-87-5	1,2-Dichloropropane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethylene	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
108-38-3/106-42-3	p- + m-Xylene	2	U
95-47-6	o-Xylene	2	U
75-25-2	Bromoform	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U

Outfall 001
Sampled 9-10-03
Grab Sample

1A

Volatile Organics Analysis Data Sheet

Method 624 (CLP)

Brookhaven National Laboratory
Environment Safety and Health Services Division
Non-Radiological Analytical Services Laboratory

Analytical Services Lab ID: 23091208-01

Matrix: (soil/water) water

Date Analyzed: 9/17/2003

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: 30917B14.D

Level: (low/med) low

Dilution Factor: 1

Dilution information: N/A

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethylene	2	U
67-64-1	Acetone	2	U
75-09-2	Methylene Chloride	2	U
1634-04-4	MTBE	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-4	cis-1,2-Dichloroethylene	2	U
78-93-3	2-Butanone	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon Tetrachloride	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethylene	2	U
78-87-5	1,2-Dichloropropane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethylene	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
108-38-3/106-42-3	p- + m-Xylene	2	U
95-47-6	o-Xylene	2	U
75-25-2	Bromoform	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U

Outfall 001
Sampled 9-12-03
Grab Sample

TOTAL METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

SDG No.: 87574 **Method Type:** SW846

Sample ID: 87574001 **Client ID:** 17581-001

Contract: BRKL00404 **Lab Code:** GEL **Case No.:** GEL **SAS No.:**

Matrix: WATER **Date Received:** 9/9/2003 **Level:** LOW **% Solids:** 0.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	84.5	µg/L	B		P	70.8	TJA61 Trace ICP2	91103
7440-36-0	Antimony	3.280	µg/L	U		P	3.280	TJA61 Trace ICP2	91103
7440-38-2	Arsenic	2.360	µg/L	U		P	2.360	TJA61 Trace ICP2	91103
7440-39-3	Barium	23.6	µg/L	B		P	0.360	TJA61 Trace ICP2	91103
7440-41-7	Beryllium	0.230	µg/L	U		P	0.230	TJA61 Trace ICP2	91103
7440-43-9	Cadmium	0.610	µg/L	U		P	0.610	TJA61 Trace ICP2	91103
7440-70-2	Calcium	9930	µg/L			P	9.300	TJA61 Trace ICP2	91103
7440-47-3	Chromium	2.080	µg/L	U		P	2.080	TJA61 Trace ICP2	91103
7440-48-4	Cobalt	1.100	µg/L	U		P	1.100	TJA61 Trace ICP2	91103
7440-50-8	Copper	43.1	µg/L			P	2.020	TJA61 Trace ICP2	91103
7439-89-6	Iron	155	µg/L			P	25.3	TJA61 Trace ICP2	91103
7439-92-1	Lead	2.140	µg/L	U		P	2.140	TJA61 Trace ICP2	91103
7439-95-4	Magnesium	2960	µg/L	B		P	12.7	TJA61 Trace ICP2	91103
7439-96-5	Manganese	4.990	µg/L	B		P	0.760	TJA61 Trace ICP2	91103
7439-97-6	Mercury	0.120	µg/L	B		AV	0.033	PE CVAA2	091103W1Hg
7440-02-0	Nickel	3.690	µg/L	B		P	2.980	TJA61 Trace ICP2	91103
7440-09-7	Potassium	4120	µg/L	B		P	22.2	TJA61 Trace ICP2	91103
7782-49-2	Selenium	4.560	µg/L	U		P	4.560	TJA61 Trace ICP2	91103
7440-22-4	Silver	1.980	µg/L	U		P	1.980	TJA61 Trace ICP2	91103
7440-23-5	Sodium	30800	µg/L			P	32.0	TJA61 Trace ICP2	91103
7440-28-0	Thallium	4.080	µg/L	U		P	4.080	TJA61 Trace ICP2	91103
7440-62-2	Vanadium	3.450	µg/L	B		P	2.470	TJA61 Trace ICP2	91103
7440-66-6	Zinc	57.7	µg/L		*	P	1.090	TJA61 Trace ICP2	91103

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After:** **Artifacts:**

Comments:

Outfall 001
Sampled 9-8-03
24Hr. Composite

AMC 9/15/03

General Engineering Laboratories

TOTAL METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

SDG No.: 87764 **Method Type:** SW846

Sample ID: 87764001 **Client ID:** 17596-001

Contract: BRKL004 **Lab Code:** GEL **Case No.:** GEL **SAS No.:**

Matrix: WATER **Date Received:** 09/11/2003 **Level:** LOW **% Solids:** 0.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	70.8	µg/L	U		P	70.8	TJA61 Trace ICP2	91603
7440-36-0	Antimony	3.280	µg/L	U		P	3.280	TJA61 Trace ICP2	91603
7440-38-2	Arsenic	2.360	µg/L	U		P	2.360	TJA61 Trace ICP2	91603
7440-39-3	Barium	22.1	µg/L	B		P	0.360	TJA61 Trace ICP2	91603
7440-41-7	Beryllium	0.230	µg/L	U		P	0.230	TJA61 Trace ICP2	91603
7440-43-9	Cadmium	0.610	µg/L	U		P	0.610	TJA61 Trace ICP2	91603
7440-70-2	Calcium	10800	µg/L			P	9.300	TJA61 Trace ICP2	91603
7440-47-3	Chromium	2.080	µg/L	U		P	2.080	TJA61 Trace ICP2	91603
7440-48-4	Cobalt	1.330	µg/L	B		P	1.100	TJA61 Trace ICP2	91603
7440-50-8	Copper	33.1	µg/L			P	2.020	TJA61 Trace ICP2	91603
7439-89-6	Iron	95.5	µg/L	B		P	25.3	TJA61 Trace ICP2	91603
7439-92-1	Lead	2.140	µg/L	U		P	2.140	TJA61 Trace ICP2	91603
7439-95-4	Magnesium	3250	µg/L	B		P	12.7	TJA61 Trace ICP2	91603
7439-96-5	Manganese	2.960	µg/L	B		P	0.760	TJA61 Trace ICP2	91603
7439-97-6	Mercury	0.063	µg/L	B		AV	0.033	PE CVAA2	092203w1Hg
7440-02-0	Nickel	3.670	µg/L	B		P	2.980	TJA61 Trace ICP2	91603
7440-09-7	Potassium	3690	µg/L	B		P	22.2	TJA61 Trace ICP2	91603
7782-49-2	Selenium	4.560	µg/L	U		P	4.560	TJA61 Trace ICP2	91603
7440-22-4	Silver	1.980	µg/L	U		P	1.980	TJA61 Trace ICP2	91603
7440-23-5	Sodium	29100	µg/L			P	32.0	TJA61 Trace ICP2	91603
7440-28-0	Thallium	4.190	µg/L	B		P	4.080	TJA61 Trace ICP2	91603
7440-62-2	Vanadium	3.030	µg/L	B		P	2.470	TJA61 Trace ICP2	91603
7440-66-6	Zinc	31.1	µg/L			P	1.090	TJA61 Trace ICP2	91603

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After:** **Artifacts:**

Comments:

SIP Outfall 001
Sampled 9-10-03
24 Hr. Composite

General Engineering Laboratories, LLC

TOTAL METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

SDG No.: 87936 **Method Type:** SW846

Sample ID: 87936001 **Client ID:** 17608-001

Contract: BRKL00404 **Lab Code:** GEL **Case No.:** GEL **SAS No.:**

Matrix: WATER **Date Received:** 9/13/2003 **Level:** LOW **% Solids:** 0.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	93.5	µg/L	B		P	70.8	TJA61 Trace ICP2	91903
7440-36-0	Antimony	3.280	µg/L	U		P	3.280	TJA61 Trace ICP2	91903
7440-38-2	Arsenic	3.610	µg/L	B		P	2.360	TJA61 Trace ICP2	91903
7440-39-3	Barium	30.0	µg/L	B		P	0.360	TJA61 Trace ICP2	91903
7440-41-7	Beryllium	0.230	µg/L	U		P	0.230	TJA61 Trace ICP2	91903
7440-43-9	Cadmium	0.610	µg/L	U		P	0.610	TJA61 Trace ICP2	91903
7440-70-2	Calcium	14400	µg/L			P	9.300	TJA61 Trace ICP2	91903
7440-47-3	Chromium	2.080	µg/L	U		P	2.080	TJA61 Trace ICP2	91903
7440-48-4	Cobalt	1.100	µg/L	U		P	1.100	TJA61 Trace ICP2	91903
7440-50-8	Copper	37.2	µg/L			P	2.020	TJA61 Trace ICP2	91903
7439-89-6	Iron	92.3	µg/L	B		P	25.3	TJA61 Trace ICP2	91903
7439-92-1	Lead	2.140	µg/L	U		P	2.140	TJA61 Trace ICP2	91903
7439-95-4	Magnesium	4220	µg/L	B		P	12.7	TJA61 Trace ICP2	91903
7439-96-5	Manganese	2.980	µg/L	B		P	0.760	TJA61 Trace ICP2	91903
7439-97-6	Mercury	0.111	µg/L	B		AV	0.033	PE CVAA2	091903W1Hg
7440-02-0	Nickel	3.680	µg/L	B		P	2.980	TJA61 Trace ICP2	91903
7440-09-7	Potassium	4880	µg/L	B		P	22.2	TJA61 Trace ICP2	91903
7782-49-2	Selenium	4.560	µg/L	U		P	4.560	TJA61 Trace ICP2	91903
7440-22-4	Silver	2.060	µg/L	B		P	1.980	TJA61 Trace ICP2	91903
7440-23-5	Sodium	35200	µg/L			P	32.0	TJA61 Trace ICP2	91903
7440-28-0	Thallium	4.080	µg/L	U		P	4.080	TJA61 Trace ICP2	91903
7440-62-2	Vanadium	4.290	µg/L	B		P	2.470	TJA61 Trace ICP2	91903
7440-66-6	Zinc	42.1	µg/L			P	1.090	TJA61 Trace ICP2	91903

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After:** **Artifacts:**

Comments:

Outfall 001
Sampled 9-12-03
24Hr. Composite

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: October 21, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17581-002
Sample ID: 87574002
Matrix: Water
Collect Date: 08-SEP-03 13:45
Receive Date: 09-SEP-03 09:00
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17581
Samp Recv.: 17581
Client Desc.: STP EFFLUENT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide & PCB Federal											
608/3510C Pest/PCB Liquid Fed											
4,4'-DDD	U	ND	0.0055	0.050	ug/L	1	MM	09/15/03	1637	276438	1
4,4'-DDE	U	ND	0.0044	0.100	ug/L	1					
4,4'-DDT	U	ND	0.0109	0.100	ug/L	1					
Aldrin	U	ND	0.00525	0.050	ug/L	1					
Chlordane (tech.)	U	ND	0.155	0.250	ug/L	1					
Dieldrin	U	ND	0.00385	0.100	ug/L	1					
Endosulfan I	U	ND	0.00615	0.050	ug/L	1					
Endosulfan II	U	ND	0.0119	0.100	ug/L	1					
Endosulfan sulfate	U	ND	0.00465	0.100	ug/L	1					
Endrin	U	ND	0.0038	0.100	ug/L	1					
Endrin aldehyde	U	ND	0.00695	0.100	ug/L	1					
Heptachlor	U	ND	0.00585	0.050	ug/L	1					
Heptachlor epoxide	U	ND	0.003	0.050	ug/L	1					
Toxaphene	U	ND	0.105	5.00	ug/L	1					
alpha-BHC	U	ND	0.00145	0.050	ug/L	1					
beta-BHC	U	ND	0.00285	0.050	ug/L	1					
delta-BHC	U	ND	0.00275	0.100	ug/L	1					
gamma-BHC (Lindane)	U	ND	0.0021	0.050	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C-608 PEST/PCB Prep Liquid FED	NAH1	09/12/03	1600	276437

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 608	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	608/3510C Pest/PCB Liquid Fed	75	(39%-112%)
Decachlorobiphenyl	608/3510C Pest/PCB Liquid Fed	77	(25%-125%)

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.

Outfall 001
Sampled 9-8-03
Grab sample

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: October 21, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17596-002
Sample ID: 87764002
Matrix: Water
Collect Date: 10-SEP-03 14:00
Receive Date: 11-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17596
Samp Recv.: 17596
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide & PCB Federal											
608/3510C Pest/PCB Liquid Fed											
4,4'-DDD	U	ND	0.0055	0.050	ug/L	1	MM	09/15/03	1645	276438	1
4,4'-DDE	U	ND	0.0044	0.100	ug/L	1					
4,4'-DDT	U	ND	0.0109	0.100	ug/L	1					
Aldrin	U	ND	0.00525	0.050	ug/L	1					
Chlordane (tech.)	U	ND	0.155	0.250	ug/L	1					
Dieldrin	U	ND	0.00385	0.100	ug/L	1					
Endosulfan I	U	ND	0.00615	0.050	ug/L	1					
Endosulfan II	U	ND	0.0119	0.100	ug/L	1					
Endosulfan sulfate	U	ND	0.00465	0.100	ug/L	1					
Endrin	U	ND	0.0038	0.100	ug/L	1					
Endrin aldehyde	U	ND	0.00695	0.100	ug/L	1					
Heptachlor	U	ND	0.00585	0.050	ug/L	1					
Heptachlor epoxide	U	ND	0.003	0.050	ug/L	1					
Toxaphene	U	ND	0.105	5.00	ug/L	1					
alpha-BHC	U	ND	0.00145	0.050	ug/L	1					
beta-BHC	U	ND	0.00285	0.050	ug/L	1					
delta-BHC	U	ND	0.00275	0.100	ug/L	1					
gamma-BHC (Lindane)	U	ND	0.0021	0.050	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C-608 PEST/PCB Prep Liquid FED	NAH1	09/12/03	1600	276437

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 608	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	608/3510C Pest/PCB Liquid Fed	72	(39%-112%)
Decachlorobiphenyl	608/3510C Pest/PCB Liquid Fed	76	(25%-125%)

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.

Outfall 001
Sampled 9-10-03
Grab Sample

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: October 21, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17608-002
Sample ID: 87936002
Matrix: Water
Collect Date: 12-SEP-03 13:25
Receive Date: 13-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17608
Samp Recv.: 17608
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide & PCB Federal											
608/3510C Pest/PCB Liquid Fed											
4,4'-DDD	U	ND	0.00556	0.050	ug/L	1	SJ	09/18/03	1408	277652	1
4,4'-DDE	U	ND	0.00444	0.100	ug/L	1					
4,4'-DDT	J	0.0151	0.011	0.100	ug/L	1					
Aldrin	U	ND	0.0053	0.050	ug/L	1					
Chlordane (tech.)	U	ND	0.157	0.253	ug/L	1					
Dieldrin	U	ND	0.00389	0.100	ug/L	1					
Endosulfan I	U	ND	0.00621	0.050	ug/L	1					
Endosulfan II	U	ND	0.012	0.100	ug/L	1					
Endosulfan sulfate	U	ND	0.0047	0.100	ug/L	1					
Endrin	U	ND	0.00384	0.100	ug/L	1					
Endrin aldehyde	U	ND	0.00702	0.100	ug/L	1					
Heptachlor	U	ND	0.00591	0.050	ug/L	1					
Heptachlor epoxide	U	ND	0.00303	0.050	ug/L	1					
Toxaphene	U	ND	0.106	5.00	ug/L	1					
alpha-BHC	U	ND	0.00146	0.050	ug/L	1					
beta-BHC	U	ND	0.00288	0.050	ug/L	1					
delta-BHC	U	ND	0.00278	0.100	ug/L	1					
gamma-BHC (Lindane)	U	ND	0.00212	0.050	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C-608 PEST/PCB Prep Liquid FED	NAH1	09/17/03	1100	277651

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 608	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	608/3510C Pest/PCB Liquid Fed	29 *	(39%-112%)
Decachlorobiphenyl	608/3510C Pest/PCB Liquid Fed	69	(25%-125%)

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.

Outfall 001
Sampled 9-12-03
Grab Sample

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: October 20, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17581-002
Sample ID: 87574004
Matrix: Water
Collect Date: 08-SEP-03 13:45
Receive Date: 09-SEP-03 09:00
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17581
Samp Recv.: 17581
Client Desc.: STP EFFLUENT

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-Volatiles-PCB Federal										
8082 3510C PCB H2O Fed										
Aroclor-1016	U	ND	0.050	0.100	ug/L	1	CAK 10/20/03	1513	285784	1
Aroclor-1221	U	ND	0.0833	0.100	ug/L	1				
Aroclor-1232	U	ND	0.050	0.100	ug/L	1				
Aroclor-1242	U	ND	0.060	0.100	ug/L	1				
Aroclor-1248	U	ND	0.050	0.100	ug/L	1				
Aroclor-1254	U	ND	0.050	0.100	ug/L	1				
Aroclor-1260	U	ND	0.050	0.100	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C PCB Prep H2O Federal	NAH1	09/12/03	1600	285783

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	8082 3510C PCB H2O Fed	39	(33%-126%)
Decachlorobiphenyl	8082 3510C PCB H2O Fed	54	(30%-135%)

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.

Outfall 001
Sampled 9-8-03
Grab Sample

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: October 20, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17596-002
Sample ID: 87764004
Matrix: Water
Collect Date: 10-SEP-03 11:00
Receive Date: 11-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17956
Samp Recv.: 17956
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB Federal											
8082 3510C PCB H2O Fed											
Aroclor-1016	U	ND	0.050	0.100	ug/L	1	CAK	10/20/03	1526	285784	1
Aroclor-1221	U	ND	0.0833	0.100	ug/L	1					
Aroclor-1232	U	ND	0.050	0.100	ug/L	1					
Aroclor-1242	U	ND	0.060	0.100	ug/L	1					
Aroclor-1248	U	ND	0.050	0.100	ug/L	1					
Aroclor-1254	U	ND	0.050	0.100	ug/L	1					
Aroclor-1260	U	ND	0.050	0.100	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C PCB Prep H2O Federal	NAH1	09/12/03	1600	285783

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	8082 3510C PCB H2O Fed	44	(33%-126%)
Decachlorobiphenyl	8082 3510C PCB H2O Fed	51	(30%-135%)

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.

Outfall 001
Sampled 9-10-03
Grab Sample

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: October 20, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17608-002
Sample ID: 87936004
Matrix: Water
Collect Date: 12-SEP-03 13:25
Receive Date: 13-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17608
Samp Recv.: 17608
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB Federal											
8082 3510C PCB H2O Fed											
Aroclor-1016	U	ND	0.0505	0.101	ug/L	1	CAK	10/20/03	1538	285784	1
Aroclor-1221	U	ND	0.0841	0.101	ug/L	1					
Aroclor-1232	U	ND	0.0505	0.101	ug/L	1					
Aroclor-1242	U	ND	0.0606	0.101	ug/L	1					
Aroclor-1248	U	ND	0.0505	0.101	ug/L	1					
Aroclor-1254	U	ND	0.0505	0.101	ug/L	1					
Aroclor-1260	U	ND	0.0505	0.101	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C PCB Prep H2O Federal	NAH1	09/17/03	1100	285783

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	8082 3510C PCB H2O Fed	32 *	(33%-126%)
Decachlorobiphenyl	8082 3510C PCB H2O Fed	41	(30%-135%)

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.

Outfall 001
Sampled 9-12-03
Grab Sample

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : S. Scarpitta

Lab No. : **0309213-003**

Client ID. : 17582-003

Sample Information...
Type : Aqueous

Origin:

Collected 9/8/2003 11:20:00 AM
Received 9/8/2003 3:15:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	45	mg/L	E405.1	9/10/2003 6:50:00 AM

STP Influent
Sampled 9-8-03
24 hr. Composite

Qualifiers: E - Value above quantitation range
D - Results for Dilution

Date Reported : 9/22/2003

Joann M. Slavin
Laboratory Manager

BNLS773 S30

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : S. Scarpitta

Lab No. : **0309310-003**

Client ID. : 17597-003

Sample Information...
Type : Aqueous

Origin:

Collected 9/10/2003 11:00:00 AM
Received 9/10/2003 3:31:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	38	mg/L	E405.1	9/11/2003 8:12:00 AM

STP Influent
Sampled 9-10-03
~~Grab Sample~~ 9-26-03
24 Hr. Composite

Qualifiers: E - Value above quantitation range
D - Results for Dilution

Date Reported : 9/22/2003

Joann M. Slavin
Laboratory Manager

BNLS773 S34

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Brookhaven National Lab.-BNLS
70 Bell Ave.
Upton, NY 11973
Attn To : S. Scarpitta

Lab No. : 0309385-003

Client ID. : 17607-003

Sample Information...
Type : Aqueous

Origin:

Collected 9/12/2003 10:30:00 AM
Received 9/12/2003 3:30:00 PM
Collected By CLIENT
Copies To Original
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	31	mg/L	E405.1	9/13/2003 8:27:00 AM

STP Influent
Sampled 9-12-03
24hr. composite

Qualifiers: E - Value above quantitation range
D - Results for Dilution

Date Reported : 9/22/2003

Joann M. Slavin
Laboratory Manager

BNLS773 S37

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 18, 2003

Contact: John Burke
Project: SPDES

Page 1 of 1

Client Sample ID: 17581-003
Sample ID: 87574003
Matrix: Water
Collect Date: 08-SEP-03 11:20
Receive Date: 09-SEP-03 09:00
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17581
Samp Recv.: 17581
Client Desc.: STP INFLUENT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis Federal											
EPA 160.2 Total Suspended Liq											
Total Suspended Solids		43.6	1.53	10.0	mg/L		SDS	09/15/03	1405	277104	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	

STP Influent
Sampled 9-8-03
24 hr. Composite

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973–5000

Report Date: September 29, 2003

Contact: John Burke
Project: SPDES

Page 1 of 1

Client Sample ID: 17596-003
Sample ID: 87764003
Matrix: Water
Collect Date: 10-SEP-03 11:00
Receive Date: 11-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17596
Samp Recv.: 17596
Client Desc.: STP Influent

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Solids Analysis Federal										
EPA 160.2 Total Suspended Liq										
Total Suspended Solids		35.3	1.27	8.33	mg/L		SDS 09/15/03	1405	277104	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	

STP Influent
Sampled 9-10-03
24 Hr. composite

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973–5000

Report Date: September 22, 2003

Contact: John Burke
Project: SPDES

Client Sample ID:	17608-003	Project:	BRKL00404
Sample ID:	87936003	Client ID:	BRKL004
Matrix:	Water	COC:	17608
Collect Date:	12-SEP-03 10:30	Samp Recv.:	17608
Receive Date:	13-SEP-03 09:15	Client Desc.:	STP Influent
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis Federal											
EPA 160.2 Total Suspended Liq											
Total Suspended Solids		27.3	0.955	6.25	mg/L		SDS	09/17/03	1103	277722	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	

STP Influent
Sampled 9-12-03
24hr. Composite

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: October 17, 2003

Contact: John Burke
Project: Hazardous & Radiochemical Analytical Services-Full

Client Sample ID: 17581-003
Sample ID: 89349001
Matrix: Water
Collect Date: 08-SEP-03 11:20
Receive Date: 06-OCT-03 12:00
Collector: Client

Project: BRKL00400
Client ID: BRKL004
COC: 17581
Samp Recv.: 17581
Client Desc.: STP Influent

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Mercury Analysis-CVAA										
7470 Cold Vapor Hg Liquid										
Mercury	HJh	0.183	0.0472	0.200	ug/L	1	NOR1 10/16/03	1653	282363	1
Metals Analysis-ICP										
6010 TAL Metals Liquid Federal										
Aluminum		207	14.7	200	ug/L	1	HSC 10/14/03	2014	282637	2
Antimony	U	ND	5.08	60.0	ug/L	1				
Arsenic	J	3.21	2.24	10.0	ug/L	1				
Barium	J	43.6	0.222	200	ug/L	1				
Beryllium	U	ND	0.158	5.00	ug/L	1				
Cadmium	J	0.617	0.313	5.00	ug/L	1				
Calcium		13100	5.54	5000	ug/L	1				
Chromium	J	1.80	0.503	10.0	ug/L	1				
Cobalt	U	ND	0.541	50.0	ug/L	1				
Copper		112	1.39	25.0	ug/L	1				
Iron		1280	12.6	100	ug/L	1				
Magnesium	J	3780	5.18	5000	ug/L	1				
Manganese		30.2	0.296	15.0	ug/L	1				
Nickel	J	3.64	0.690	40.0	ug/L	1				
Selenium	U	ND	2.81	5.00	ug/L	1				
Silver	U	ND	0.835	10.0	ug/L	1				
Thallium	U	ND	10.0	20.0	ug/L	1				
Vanadium	U	ND	0.606	50.0	ug/L	1				
Zinc		108	0.883	20.0	ug/L	1				
Lead		16.2	1.72	5.00	ug/L	1	HSC 10/15/03	1455	282637	3
Potassium	J	3590	16.5	5000	ug/L	1				
Sodium		34700	14.4	5000	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-TRACE SW846 3005A	CQH1	10/08/03	1702	282636
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	ETL	10/16/03	1015	282362

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005/6010B	

STP Influent
Sampled 9-8-03
24 Hr. Composite

General Engineering Laboratories

TOTAL METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

SDG No.: 87764 **Method Type:** SW846

Sample ID: 87764003 **Client ID:** 17596-003

Contract: BRKL004 **Lab Code:** GEL **Case No.:** GEL **SAS No.:**

Matrix: WATER **Date Received:** 09/11/2003 **Level:** LOW **% Solids:** 0.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	503	µg/L			P	70.8	TJA61 Trace ICP2	91603
7440-36-0	Antimony	3.280	µg/L	U		P	3.280	TJA61 Trace ICP2	91603
7440-38-2	Arsenic	2.360	µg/L	U		P	2.360	TJA61 Trace ICP2	91603
7440-39-3	Barium	33.6	µg/L	B		P	0.360	TJA61 Trace ICP2	91603
7440-41-7	Beryllium	0.230	µg/L	U		P	0.230	TJA61 Trace ICP2	91603
7440-43-9	Cadmium	0.692	µg/L	B		P	0.610	TJA61 Trace ICP2	91603
7440-70-2	Calcium	12000	µg/L			P	9.300	TJA61 Trace ICP2	91603
7440-47-3	Chromium	2.870	µg/L	B		P	2.080	TJA61 Trace ICP2	91603
7440-48-4	Cobalt	1.450	µg/L	B		P	1.100	TJA61 Trace ICP2	91603
7440-50-8	Copper	106	µg/L			P	2.020	TJA61 Trace ICP2	91603
7439-89-6	Iron	1440	µg/L			P	25.3	TJA61 Trace ICP2	91603
7439-92-1	Lead	12.1	µg/L			P	2.140	TJA61 Trace ICP2	91603
7439-95-4	Magnesium	3460	µg/L	B		P	12.7	TJA61 Trace ICP2	91603
7439-96-5	Manganese	42.3	µg/L			P	0.760	TJA61 Trace ICP2	91603
7439-97-6	Mercury	0.332	µg/L			AV	0.033	PE CVAA2	091603w1Hg
7440-02-0	Nickel	3.720	µg/L	B		P	2.980	TJA61 Trace ICP2	91603
7440-09-7	Potassium	5130	µg/L			P	22.2	TJA61 Trace ICP2	91603
7782-49-2	Selenium	4.560	µg/L	U		P	4.560	TJA61 Trace ICP2	91603
7440-22-4	Silver	1.980	µg/L	U		P	1.980	TJA61 Trace ICP2	91603
7440-23-5	Sodium	31200	µg/L			P	32.0	TJA61 Trace ICP2	91603
7440-28-0	Thallium	4.080	µg/L	U		P	4.080	TJA61 Trace ICP2	91603
7440-62-2	Vanadium	2.470	µg/L	U		P	2.470	TJA61 Trace ICP2	91603
7440-66-6	Zinc	73.0	µg/L			P	1.090	TJA61 Trace ICP2	91603

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After:** **Artifacts:**

Comments:

STP Influent
Sampled 9-10-03
24 Hr. Composite

TOTAL METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

SDG No.: 87936 **Method Type:** SW846

Sample ID: 87936003 **Client ID:** 17608-003

Contract: BRKL00404 **Lab Code:** GEL **Case No.:** GEL **SAS No.:**

Matrix: WATER **Date Received:** 9/13/2003 **Level:** LOW **% Solids:** 0.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	509	µg/L			P	70.8	TJA61 Trace ICP2	91903
7440-36-0	Antimony	3.280	µg/L	U		P	3.280	TJA61 Trace ICP2	91903
7440-38-2	Arsenic	2.900	µg/L	B		P	2.360	TJA61 Trace ICP2	91903
7440-39-3	Barium	31.4	µg/L	B		P	0.360	TJA61 Trace ICP2	91903
7440-41-7	Beryllium	0.230	µg/L	U		P	0.230	TJA61 Trace ICP2	91903
7440-43-9	Cadmium	0.610	µg/L	U		P	0.610	TJA61 Trace ICP2	91903
7440-70-2	Calcium	12300	µg/L			P	9.300	TJA61 Trace ICP2	91903
7440-47-3	Chromium	2.390	µg/L	B		P	2.080	TJA61 Trace ICP2	91903
7440-48-4	Cobalt	1.100	µg/L	U		P	1.100	TJA61 Trace ICP2	91903
7440-50-8	Copper	86.4	µg/L			P	2.020	TJA61 Trace ICP2	91903
7439-89-6	Iron	1340	µg/L			P	25.3	TJA61 Trace ICP2	91903
7439-92-1	Lead	12.4	µg/L			P	2.140	TJA61 Trace ICP2	91903
7439-95-4	Magnesium	3510	µg/L	B		P	12.7	TJA61 Trace ICP2	91903
7439-96-5	Manganese	38.8	µg/L			P	0.760	TJA61 Trace ICP2	91903
7439-97-6	Mercury	0.221	µg/L			AV	0.033	PE CVAA2	091903W1Hg
7440-02-0	Nickel	3.880	µg/L	B		P	2.980	TJA61 Trace ICP2	91903
7440-09-7	Potassium	5430	µg/L			P	22.2	TJA61 Trace ICP2	91903
7782-49-2	Selenium	4.560	µg/L	U		P	4.560	TJA61 Trace ICP2	91903
7440-22-4	Silver	1.980	µg/L	U		P	1.980	TJA61 Trace ICP2	91903
7440-23-5	Sodium	33500	µg/L			P	32.0	TJA61 Trace ICP2	91903
7440-28-0	Thallium	4.080	µg/L	U		P	4.080	TJA61 Trace ICP2	91903
7440-62-2	Vanadium	2.530	µg/L	B		P	2.470	TJA61 Trace ICP2	91903
7440-66-6	Zinc	52.3	µg/L			P	1.090	TJA61 Trace ICP2	91903

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After:** **Artifacts:**

Comments:

STP Influent
Sampled 9-12-03
24hr. Composite

ATTACHMENT V

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR SEPTEMBER 2003

ANALYTICAL RESULTS FROM H2M LABS INC., THE BNL ANALYTICAL SERVICES LABORATORY, GEL LLC, AND CHEMTEX, INC.

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED FROM OUTFALLS 001A, 001B, 001D, 001F, 002, 002B, 005, 006A, 006B, 008, AND 010

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

17159-001

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: BNLS SAS No.: _____ SDG No.: BNLS761

Matrix: (soil/water) WATER Lab Sample ID: 0307561-001A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\D11227.D

Level: (low/med) LOW Date Received: 07/16/03

% Moisture: Decanted: (Y/N) N Date Extracted: 07/18/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/21/03

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	25	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U

Outfall 001A
Sampled 7-15-03
Grab Sample

BNLS761 S15

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

17159-001

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: BNLS SAS No.: _____ SDG No.: BNLS761

Matrix: (soil/water) WATER Lab Sample ID: 0307561-001A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\D11227.D

Level: (low/med) LOW Date Received: 07/16/03

% Moisture: Decanted: (Y/N) N Date Extracted: 07/18/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/21/03

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butyl phthalate	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
56-55-3	Benzo(a)anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	11	
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

Outfall 001A
Sampled 7-15-03
Grab Sample.

BNLS761 S16

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

17128-002

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 83584

Matrix: (soil/water) WATER Lab Sample ID: 83584002

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1R322

Level: (low/med) LOW Date Received: 07/08/03

% Moisture: not dec. _____ Date Analyzed: 07/09/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
75-09-2	Methylene chloride	2.0	U
1634-04-4	tert-Butyl methyl ether	5.0	U
156-60-5	trans-1,2-Dichloroethylene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
67-66-3	Chloroform	1.7	
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethylene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
110-75-8	2-Chloroethylvinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropylene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U

Outfall 001B
Sampled
7-7-03
Grab Sample

FORM I VOA OLM03.0

1B
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

17128-002

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 83584

Matrix: (soil/water) WATER Lab Sample ID: 83584002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2G1429

Level: (low/med) LOW Date Received: 07/08/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 07/09/03

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/14/03

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Methyl-N-nitrosomethylamin	10.0	U
108-95-2	Phenol	10.0	U
111-44-4	bis(2-Chloroethyl) ether	10.0	U
95-57-8	2-Chlorophenol	10.0	U
541-73-1	1,3-Dichlorobenzene	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
95-50-1	1,2-Dichlorobenzene	10.0	U
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U
621-64-7	N-Nitrosodipropylamine	10.0	U
67-72-1	Hexachloroethane	10.0	U
98-95-3	Nitrobenzene	10.0	U
78-59-1	Isophorone	10.0	U
88-75-5	2-Nitrophenol	10.0	U
105-67-9	2,4-Dimethylphenol	10.0	U
111-91-1	bis(2-Chloroethoxy)methane	10.0	U
120-83-2	2,4-Dichlorophenol	10.0	U
120-82-1	1,2,4-Trichlorobenzene	10.0	U
91-20-3	Naphthalene	10.0	U
87-68-3	Hexachlorobutadiene	10.0	U
59-50-7	4-Chloro-3-methylphenol	10.0	U
91-57-6	2-Methylnaphthalene	1.0	U
90-12-0	1-Methylnaphthalene	1.0	U
77-47-4	Hexachlorocyclopentadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	10.0	U
91-58-7	2-Chloronaphthalene	10.0	U
131-11-3	Dimethylphthalate	10.0	U
606-20-2	2,6-Dinitrotoluene	10.0	U
208-96-8	Acenaphthylene	10.0	U
83-32-9	Acenaphthene	10.0	U
51-28-5	2,4-Dinitrophenol	50.0	U
132-64-9	Dibenzofuran	10.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U

Outfall 001B
Sampled
7-7-03
Grab Sample

FORM I SV-1 OLM03.0

1C
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

17128-002

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 83584

Matrix: (soil/water) WATER Lab Sample ID: 83584002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2G1429

Level: (low/med) LOW Date Received: 07/08/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 07/09/03

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/14/03

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10.0	U
100-02-7	4-Nitrophenol	50.0	U
86-73-7	Fluorene	10.0	U
7005-72-3	4-Chlorophenylphenylether	10.0	U
534-52-1	2-Methyl-4,6-dinitrophenol	50.0	U
122-39-4	Diphenylamine	10.0	U
101-55-3	4-Bromophenylphenylether	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
87-86-5	Pentachlorophenol	50.0	U
85-01-8	Phenanthrene	10.0	U
120-12-7	Anthracene	10.0	U
84-74-2	Di-n-butylphthalate	10.0	U
206-44-0	Fluoranthene	10.0	U
92-87-5	Benzidine	50.0	U
129-00-0	Pyrene	10.0	U
85-68-7	Butylbenzylphthalate	10.0	U
56-55-3	Benzo(a)anthracene	10.0	U
91-94-1	3,3'-Dichlorobenzidine	40.0	U
218-01-9	Chrysene	10.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.8	J
117-84-0	Di-n-octylphthalate	10.0	U
205-99-2	Benzo(b)fluoranthene	10.0	U
207-08-9	Benzo(k)fluoranthene	10.0	U
50-32-8	Benzo(a)pyrene	10.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	Dibenzo(a,h)anthracene	10.0	U
191-24-2	Benzo(ghi)perylene	10.0	U

Outfall 001B
Sampled
7-7-03
Grab Sample

FORM I SV-2 OLM03.0

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

Lab Name:	Brookhaven National Laboratory - ASL		SAMPLE NO. 17127-005
Lab Code:			
Matrix:	Water	C.O.C.#:	17127
Level:		Lab sample ID:	23070707-05
		Date Rcvd.:	7/7/03

Concentration Units: (ug/L)

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	370	J	PH	ICP/MS
7440-36-0	Antimony	6	U		ICP/MS
7440-38-2	Arsenic	1.0	U		ICP/MS
7440-39-3	Barium	9.2			ICP/MS
7440-41-7	Beryllium	0.5	U J	PH	ICP/MS
7440-43-9	Cadmium	0.5	U		ICP/MS
7440-47-3	Chromium	116			ICP/MS
7440-48-4	Cobalt	1.7	B		ICP/MS
7440-50-8	Copper	314			ICP/MS
7439-89-6	Iron	5218			AA
7439-92-1	Lead	20.8			ICP/MS
7439-96-5	Manganese	54.6			ICP/MS
7439-97-6	Mercury	0.1	U		CV
7439-98-7	Molybdenum	6.3			ICP/MS
7440-02-0	Nickel	34.3			ICP/MS
7782-49-2	Selenium	0.6	B J	PH	ICP/MS
7440-22-4	Silver	1	U		ICP/MS
7440-23-5	Sodium	2704			AA
7440-28-0	Thallium	1	U		ICP/MS
7440-62-2	Vanadium	5	U		ICP/MS
7440-66-6	Zinc	64.1			ICP/MS

Outfall 001B
Sampled 7-7-03
Grab Sample

Form I - IN

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: July 18, 2003

Contact: John Burke
Project: SPDES

Client Sample ID:	17128-001	Project:	BRKL00404
Sample ID:	83584001	Client ID:	BRKL004
Matrix:	Water	COC:	17128
Collect Date:	07-JUL-03 11:12	Samp Recv.:	17128
Receive Date:	08-JUL-03 09:00	Client Desc.:	Bldg 197-93B
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rapid Flow Analysis Federal											
EPA 420.2 Phenols, Total Liquid											
Total Phenol	U	-0.00278	0.00184	0.010	mg/l	1	ADF	07/17/03	1137	263497	1
SW9012A Cyanide, Total Federal											
Cyanide, Total	U	0.382	1.72	5.00	ug/L	1	ADF	07/17/03	0913	263457	2
TRAACS Nutrient Analysis Fed											
EPA 351.2/353.1 Total Nitrogen											
Total Nitrogen		1.34	0.030	0.100	mg/L	1	THL	07/15/03	1528	263619	3
EPA 353.1 Nitrogen, (NO3/NO2											
Nitrogen, Nitrate/Nitrite		0.270	0.010	0.050	mg/L	1	THL	07/11/03	1646	262307	4
Nitrogen, Total Kjeldahl (TKN)											
Nitrogen, Total Kjeldahl		1.07	0.030	0.100	mg/L	1	THL	07/11/03	1251	262182	5

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	EXN1	07/09/03	1100	262180
EPA 420.2 Prep	EPA 420.2 Phenols, Total in liquid-Fed P	ADF	07/15/03	1300	263496
SW846 9010B Prep	SW846 9010B Prep	EXN1	07/16/03	1120	263456

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 420.2	
2	SW846 9012A	
3	EPA 351.2/353.1	
4	EPA 353.1	
5	EPA 351.2	

Outfall 001D
Sampled 7-7-03
Grab Sample

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

Lab Name:	Brookhaven National Laboratory - ASL		SAMPLE NO. 17127-004
Lab Code:			
Matrix:	Water	C.O.C.#:	17127
Level:		Lab sample ID:	23070707-04
		Date Rcvd.:	7/7/03

Concentration Units: (ug/L)

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				ICP/MS
7440-36-0	Antimony				ICP/MS
7440-38-2	Arsenic				ICP/MS
7440-39-3	Barium				ICP/MS
7440-41-7	Beryllium				ICP/MS
7440-43-9	Cadmium				ICP/MS
7440-47-3	Chromium				ICP/MS
7440-48-4	Cobalt				ICP/MS
7440-50-8	Copper				ICP/MS
7439-89-6	Iron				AA
7439-92-1	Lead				ICP/MS
7439-96-5	Manganese				ICP/MS
7439-97-6	Mercury				CV
7439-98-7	Molybdenum				ICP/MS
7440-02-0	Nickel				ICP/MS
7782-49-2	Selenium				ICP/MS
7440-22-4	Silver	16.4			ICP/MS
7440-23-5	Sodium				AA
7440-28-0	Thallium				ICP/MS
7440-62-2	Vanadium				ICP/MS
7440-66-6	Zinc				ICP/MS

Outfall 001D
Sampled 7-7-03
Grab Sample
Rm 1-93B

Form I - IN

CHEMTEX

Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, TX 77642
Phone (409) 983-4575 Fax (409) 982-1522

Client: ***Brookhaven National Laboratory***
Safety & Environmental
Protection Division
Bldg. 535A
Upton, NY 11973-5000
Attn: ***Mr. B. Lee***

Report Date: 07/29/03

AIHA *Laboratory* # 101478

RESULTS OF ANALYSIS
ATTACHMENT 1

nelap *certificate* # 02077

Outfall 001F
Sampled 7-7-03
Grab Sample

COC_num	Site-ID	Samp_ type	Samp-ID	Samp_ date	Samp_ time	Rec_date	SDG	Lab_file-ID	Samp_ depth	Flow_rate	Notes
17129	902 CT	W	902 CT	07/07/03	1028	07/11/03		P3070389	0		

Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_ date	Dilution	Lab_qual	Lab_ QCnotes	Rev_qual	Rev_conc	Rev_ QCnotes
	Polypropylene Glycol Monobutyl Ether(PPGMBE)	< 0.5		0.5	mg/l	07/19/03	SOP # O 081-045	P3070392	07/19/03	1000ml ▼ 1 ml					

Required fields are shaded
Required field under some circumstances (see Att. 2)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 12, 2003

Contact: John Burke
Project: SPDES

Page 1 of 1

Client Sample ID: 17569-003
Sample ID: 87494003
Matrix: Water
Collect Date: 04-SEP-03 13:44
Receive Date: 06-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17569
Samp Recv.: 17569
Client Desc.: HN

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil & Grease and TPH)										
Oil and Grease	J	2.44	0.600	5.00	mg/L		RDH1 09/11/03	0835	276448	1
Total Petroleum Hydrocarbons	J	2.22	0.528	4.44	mg/L		RDH1 09/12/03	0707	276449	2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

Outfall 002
Sampled 9-4-03
Grab Sample.

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

Lab Name:	Brookhaven National Laboratory - ASL		SAMPLE NO. 17127-001
Lab Code:			
Matrix:	Water	C.O.C.#:	17127
Level:		Lab sample ID:	23070707-01B
		Date Rcvd.:	7/7/03

Concentration Units: (ug/L)

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15.9	B		ICP/MS
7440-36-0	Antimony	6	U		ICP/MS
7440-38-2	Arsenic	1.0	U		ICP/MS
7440-39-3	Barium	24.3	B		ICP/MS
7440-41-7	Beryllium	0.5	U		ICP/MS
7440-43-9	Cadmium	0.5	U		ICP/MS
7440-47-3	Chromium	1.0	U		ICP/MS
7440-48-4	Cobalt	5.0	U		ICP/MS
7440-50-8	Copper	19.5			ICP/MS
7439-89-6	Iron	192	B		AA
7439-92-1	Lead	1.2			ICP/MS
7439-96-5	Manganese	12.3			ICP/MS
7439-97-6	Mercury	0.57	B		CV
7439-98-7	Molybdenum	12.6			ICP/MS
7440-02-0	Nickel	1.3	B		ICP/MS
7782-49-2	Selenium	0.5	U		ICP/MS
7440-22-4	Silver	11.1			ICP/MS
7440-23-5	Sodium	17270			AA
7440-28-0	Thallium	1.0	U		ICP/MS
7440-62-2	Vanadium	5.0	U		ICP/MS
7440-66-6	Zinc	47.2			ICP/MS

Outfall 002
Sampled 7-7-03
Grab Sample
Total Metals

Form I - IN

1A

Volatile Organics Analysis Data Sheet

Method 624 (CLP)

Brookhaven National Laboratory
Environment Safety and Health Services Division
Non-Radiological Analytical Services Laboratory

Analytical Services Lab ID: **23070707-01**

Matrix: (soil/water) water

Date Analyzed: 7/18/2003

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: 30718B12.D

Level: (low/med) low

Dilution Factor: 1

Dilution information: N/A

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethylene	2	U
67-64-1	Acetone	10	
75-09-2	Methylene Chloride	2	U
1634-04-4	MTBE	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-4	cis-1,2-Dichloroethylene	2	U
78-93-3	2-Butanone	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon Tetrachloride	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethylene	2	U
78-87-5	1,2-Dichloropropane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethylene	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
108-38-3/106-42-3	p- + m-Xylene	2	U
95-47-6	o-Xylene	2	U
75-25-2	Bromoform	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U

Outfall 002
Sampled 7-7-03
Grab Sample

CHEMTEX

Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, TX 77642
Phone (409) 983-4575 Fax (409) 982-1522

Client: ***Brookhaven National Laboratory***
Safety & Environmental
Protection Division
Bldg. 535A
Upton, NY 11973-5000
Attn: ***Mr. B. Lee***

Report Date: 07/29/03

AIHA *Laboratory # 101478*

nelap *certificate # 02077*

RESULTS OF ANALYSIS
PROJECT: EWMSD

ATTACHMENT 1

Outfall 002
Sampled 7-7-03
Grab Sample

COC_num	Site-ID	Samp_ type	Samp-ID	Samp_ date	Samp_ time	Rec_date	SDG	Lab_file-ID	Samp_ depth	Flow_rate	Notes
17129	HN	W	HN	07/07/03	1055	07/11/03		P3070389	0		

Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_ date	Dilution	Lab_qual	Lab_ QCnotes	Rev_qual	Rev_conc	Rev_ QCnotes
	H E D P as Organic Phosphorus	< 0.05		0.05	mg/l	07/18/03	EPA 365.3	P3070391							
	Inorganic Phosphorus	< 0.05		0.05	mg/l	07/18/03	EPA 365.3								
	Total Phosphorus	0.06		0.05	mg/l	07/18/03	EPA 365.3								
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	07/15/03	SOP # O121-049								

Required fields are shaded
Required field under some circumstances (see Att. 2)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 12, 2003

Contact: John Burke
Project: SPDES

Page 1 of 1

Client Sample ID:	17569-006	Project:	BRKL00404
Sample ID:	87494006	Client ID:	BRKL004
Matrix:	Water	COC:	17569
Collect Date:	04-SEP-03 13:34	Samp Recv.:	17569
Receive Date:	06-SEP-03 09:15	Client Desc.:	1004/1002
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil & Grease and TPH)										
Oil and Grease	J	1.61	0.581	5.00	mg/L		RDH1 09/11/03	0835	276448	1
Total Petroleum Hydrocarbons	J	1.40	0.511	4.30	mg/L		RDH1 09/12/03	0707	276449	2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

Outfall 002B
Sampled 9-4-03
Grab Sample

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

CHEMTEX

Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, TX 77642
Phone (409) 983-4575 Fax (409) 982-1522

Client: ***Brookhaven National Laboratory***
Safety & Environmental
Protection Division
Bldg. 535A
Upton, NY 11973-5000
Attn: ***Mr. B. Lee***

Report Date: 07/29/03

AIHA *Laboratory # 101478*

nelap *certificate # 02077*

RESULTS OF ANALYSIS
PROJECT: EWMSD

ATTACHMENT 1

Outfall 002B
Sampled 7-7-03
Grab Sample

COC_num	Site-ID	Samp_ type	Samp-ID	Samp_ date	Samp_ time	Rec_date	SDG	Lab_file-ID	Samp_ depth	Flow_rate	Notes
17129	1004/1002	W	1004/1002	07/07/03	1555	07/11/03		P3070389	0		

Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_ date	Dilution	Lab_qual	Lab_ QCnotes	Rev_qual	Rev_conc
	H E D P as Organic Phosphorus	< 0.05/ < 0.05*		0.05	mg/l	07/18/03	EPA 365.3	P3070394						
	Inorganic Phosphorus	0.06/ 0.06*		0.05	mg/l	07/18/03	EPA 365.3							
	Total Phosphorus	0.08/ 0.08*		0.05	mg/l	07/18/03	EPA 365.3							
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	07/15/03	SOP # O121-049							
	* Duplicate Analysis													

Required fields are shaded
Required field under some circumstances (see Att. 2)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 12, 2003

Contact: John Burke
Project: SPDES

Page 1 of 1

Client Sample ID: 17569-004
Sample ID: 87494004
Matrix: Water
Collect Date: 04-SEP-03 11:50
Receive Date: 06-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17569
Samp Recv.: 17569
Client Desc.: HS

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil & Grease and TPH)										
Oil and Grease	J	1.46	0.607	5.00	mg/L		RDH1 09/11/03	0835	276448	1
Total Petroleum Hydrocarbons	J	1.46	0.534	4.49	mg/L		RDH1 09/12/03	0707	276449	2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

Outfall 005
Sampled 9-4-03
Grab Sample

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

Lab Name:	Brookhaven National Laboratory - ASL		SAMPLE NO. 17127-003
Lab Code:			
Matrix:	Water	C.O.C.#:	17127
Level:		Lab sample ID:	23070707-03
		Date Rcvd.:	7/7/03

Concentration Units: (ug/L)

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20	U		ICP/MS
7440-36-0	Antimony	6	U		ICP/MS
7440-38-2	Arsenic	1.0	U		ICP/MS
7440-39-3	Barium	29.2			ICP/MS
7440-41-7	Beryllium	0.5	U		ICP/MS
7440-43-9	Cadmium	0.5	U		ICP/MS
7440-47-3	Chromium	1.0	U		ICP/MS
7440-48-4	Cobalt	5.0	U		ICP/MS
7440-50-8	Copper	5.5			ICP/MS
7439-89-6	Iron	75	U		AA
7439-92-1	Lead	0.3	U		ICP/MS
7439-96-5	Manganese	3.6			ICP/MS
7439-97-6	Mercury	0.1	U		CV
7439-98-7	Molybdenum	5	U		ICP/MS
7440-02-0	Nickel	4.0	U		ICP/MS
7782-49-2	Selenium	1.1	B		ICP/MS
7440-22-4	Silver	1	U		ICP/MS
7440-23-5	Sodium	26150			AA
7440-28-0	Thallium	1	U		ICP/MS
7440-62-2	Vanadium	5.0	U		ICP/MS
7440-66-6	Zinc	6.5			ICP/MS

Outfall 005
Sampled 7-7-03
Grab Sample

Form I - IN

CHEMTEX

Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, TX 77642
Phone (409) 983-4575 Fax (409) 982-1522

Client: ***Brookhaven National Laboratory***
Safety & Environmental
Protection Division
Bldg. 535A
Upton, NY 11973-5000
Attn: ***Mr. B. Lee***

Report Date: 07/29/03

AIHA *Laboratory # 101478*

nelap *certificate # 02077*

RESULTS OF ANALYSIS
PROJECT: EWMSD

ATTACHMENT 1

Outfall 005
Sampled 7-7-03
Grab Sample

COC_num	Site-ID	Samp_ type	Samp-ID	Samp_ date	Samp_ time	Rec_date	SDG	Lab_file-ID	Samp_ depth	Flow_rate	Notes
17129	HS	W	HS	07/07/03	1030	07/11/03		P3070389	0		

Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_ date	Dilution	Lab_qual	Lab_ QCnotes	Rev_qual	Rev_conc	Rev_ QCnotes
	H E D P as Organic Phosphorus	< 0.05		0.05	mg/l	07/18/03	EPA 365.3	P3070389							
	Inorganic Phosphorus	< 0.05		0.05	mg/l	07/18/03	EPA 365.3								
	Total Phosphorus	< 0.05		0.05	mg/l	07/18/03	EPA 365.3								
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	07/15/03	SOP # O121-049								

Required fields are shaded
Required field under some circumstances (see Att. 2)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 12, 2003

Contact: John Burke
Project: SPDES

Client Sample ID:	17569-001	Project:	BRKL00404
Sample ID:	87494001	Client ID:	BRKL004
Matrix:	Water	COC:	17569
Collect Date:	04-SEP-03 13:50	Samp Recv.:	17569
Receive Date:	06-SEP-03 09:15	Client Desc.:	HTW
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil & Grease and TPH)										
Oil and Grease	J	2.28	0.587	5.00	mg/L		RDH1 09/11/03	0835	276448	1
Total Petroleum Hydrocarbons	J	2.07	0.516	4.35	mg/L		RDH1 09/12/03	0707	276449	2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

Outfall 006 BA MA
Sampled 9-4-03
Grab Sample

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

CHEMTEX

Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, TX 77642
Phone (409) 983-4575 Fax (409) 982-1522

Client: ***Brookhaven National Laboratory***
Safety & Environmental
Protection Division
Bldg. 535A
Upton, NY 11973-5000
Attn: ***Mr. B. Lee***

Report Date: 07/29/03

AIHA *Laboratory* # 101478

nelap *certificate* # 02077

RESULTS OF ANALYSIS
PROJECT: EWMSD

ATTACHMENT I

Outfall 004A
Sampled 7-7-03
Grab Sample

COC_num	Site-ID	Samp_ type	Samp-ID	Samp_ date	Samp_ time	Rec_date	SDG	Lab_file-ID	Samp_ depth	Flow_rate	Notes
17129	HT-W	W	HT-W	07/07/03	1040	07/11/03		P3070389	0		

Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_ date	Dilution	Lab_qual	Lab_ QCnotes	Rev_qual	Rev_conc	Rev_ QCnotes
	H E D P as Organic Phosphorus	< 0.05		0.05	mg/l	07/18/03	EPA 365.3	P3070390							
	Inorganic Phosphorus	< 0.05		0.05	mg/l	07/18/03	EPA 365.3								
	Total Phosphorus	< 0.05		0.05	mg/l	07/18/03	EPA 365.3								
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	07/15/03	SOP # O121-049								

Required fields are shaded
Required field under some circumstances (see Att. 2)

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 12, 2003

Contact: John Burke
Project: SPDES

Client Sample ID:	17569-002	Project:	BRKL00404
Sample ID:	87494002	Client ID:	BRKL004
Matrix:	Water	COC:	17569
Collect Date:	04-SEP-03 13:47	Samp Recv.:	17569
Receive Date:	06-SEP-03 09:15	Client Desc.:	HTE
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil & Grease and TPH)										
Oil and Grease	J	2.14	0.578	5.00	mg/L		RDH1 09/11/03	0835	276448	1
Total Petroleum Hydrocarbons	J	1.82	0.508	4.28	mg/L		RDH1 09/12/03	0707	276449	2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

Outfall 006B
Sampled 9-4-03
Grab Sample

Notes:
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H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Reviewed by

CHEMTEX

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Phone (409) 983-4575 Fax (409) 982-1522

Client: ***Brookhaven National Laboratory***
Safety & Environmental
Protection Division
Bldg. 535A
Upton, NY 11973-5000
Attn: ***Mr. B. Lee***

Report Date: 10/07/03

AIHA *Laboratory # 101478*

nelap *certificate # 02077*

RESULTS OF ANALYSIS
PROJECT: EWMSD

ATTACHMENT 1

COC_num	Site-ID	Samp_ type	Samp-ID	Samp_ date	Samp_ time	Rec_date	SDG	Lab_file-ID	Samp_ depth	Flow_rate	Notes
17633	HT-E	W	HT-e Grab	09/19/03	1325	09/24/03		P3091316	0		

Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_ date	Dilution	Lab_qual	Lab_ QCnotes	Rev_qual	Rev_conc	Rev_ QCnotes
	H E D P as Organic Phosphorus	0.09		0.05	mg/l	09/30/03	EPA 365.3	P3091316							
	Inorganic Phosphorus	< 0.05		0.05	mg/l	09/30/03	EPA 365.3								
	Total Phosphorus	0.12		0.05	mg/l	09/30/03	EPA 365.3								
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	10/02/03	SOP # O121-049								

Required fields are shaded
Required field under some circumstances (see Att. 2)

Outfall 006B
Sampled 9-19-03
Grab Sample

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973–5000

Report Date: September 12, 2003

Contact: John Burke
Project: SPDES

Client Sample ID:	17563-001	Project:	BRKL00404
Sample ID:	87300001	Client ID:	BRKL004
Matrix:	Water	COC:	17563
Collect Date:	02-SEP-03 11:08	Samp Recv.:	17563
Receive Date:	04-SEP-03 09:15	Client Desc.:	HW
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil & Grease and TPH)										
Oil and Grease	J	1.40	0.540	5.00	mg/L		RDH1 09/11/03	0835	276448	1
Total Petroleum Hydrocarbons	J	1.40	0.475	4.00	mg/L		RDH1 09/12/03	0707	276449	2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

outfall 008
Sampled 9-2-03
Grab Sample.

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Reviewed by

1A

Volatile Organics Analysis Data Sheet

Method 624 (CLP)

Brookhaven National Laboratory
Environment Safety and Health Services Division
Non-Radiological Analytical Services Laboratory

Analytical Services Lab ID: **23090205-02**

Matrix: (soil/water) water

Date Analyzed: 9/5/2003

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: 30905B08.D

Level: (low/med) low

Dilution Factor: 1

Dilution information: N/A

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethylene	2	U
67-64-1	Acetone	2	U
75-09-2	Methylene Chloride	2	U
1634-04-4	MTBE	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-4	cis-1,2-Dichloroethylene	2	U
78-93-3	2-Butanone	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon Tetrachloride	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethylene	2	U
78-87-5	1,2-Dichloropropane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethylene	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
108-38-3/106-42-3	p- + m-Xylene	2	U
95-47-6	o-Xylene	2	U
75-25-2	Bromoform	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U

Outfall 008
Sampled 9-2-03
Grab Sample

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

17133-001

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: BNLS768

Matrix (soil/water): WATER Lab Sample ID: 0308040-001

Level (low/med): LOW Date Received: 7/30/2003

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2270			P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	13.7	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	1.1	B		P
7440-70-2	Calcium	9060			P
7440-47-3	Chromium	3.7	B		P
7440-48-4	Cobalt	0.90	B		P
7440-50-8	Copper	12.3	B		P
7439-89-6	Iron	2050			P
7439-92-1	Lead	9.8			P
7439-95-4	Magnesium	1790	B		P
7439-96-5	Manganese	20.3			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium	736	B		P
7782-49-2	Selenium	2.2	U	N	P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	2430	B		P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	6.5	B		P
7440-66-6	Zinc	75.9			P

Outfall 008
Sampled 7-11-03
Grab Sample
Total metals

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 8/11/03

BNLS768 S14

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Building 51
Upton, New York 11973--5000

Report Date: September 12, 2003

Contact: John Burke
Project: SPDES

Client Sample ID: 17563-002
Sample ID: 87300002
Matrix: Water
Collect Date: 02-SEP-03 10:47
Receive Date: 04-SEP-03 09:15
Collector: Client

Project: BRKL00404
Client ID: BRKL004
COC: 17563
Samp Recv.: 17563
Client Desc.: CSF Pit

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Oil & Grease Analysis Federal										
EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil & Grease and TPH)										
Oil and Grease	J	2.14	0.551	5.00	mg/L		RDH1 09/11/03	0835	276448	1
Total Petroleum Hydrocarbons	J	1.73	0.485	4.08	mg/L		RDH1 09/12/03	0707	276449	2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

outfall 010
Sampled 9-2-03
Grab Sample

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

17133-002

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: BNLS768

Matrix (soil/water): WATER Lab Sample ID: 0308040-002

Level (low/med): LOW Date Received: 7/30/2003

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	81.7	B		P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	15.5	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.16	B		P
7440-70-2	Calcium	6520			P
7440-47-3	Chromium	0.77	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	10.2	B		P
7439-89-6	Iron	106			P
7439-92-1	Lead	1.8	B		P
7439-95-4	Magnesium	846	B		P
7439-96-5	Manganese	12.2	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	10.9	B		P
7440-09-7	Potassium	1140	B		P
7782-49-2	Selenium	2.2	U	N	P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	1810	B		P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	17.0	B		P
7440-66-6	Zinc	77.3			P

Outfall 010
Sampled 7-11-03
Grab Sample
Total metals

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 8/11/03

BNLS768 S15