

**BROOKHAVEN**  
NATIONAL LABORATORY

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

July 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 June 2003**

Included as Attachment I, please find the DMR for the month of June 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 metals and volatile organic compound analyses whereas H2M Labs, Inc. will be performing the BOD<sub>5</sub>, Nitrogen series, and fecal coliform analyses. Copies of the analytical reports are contained in Attachments II and III. Field measured parameters (pH, settleable solids, flow) are recorded and/or measured by the Plant Engineering Division. Sewage Treatment Plant Operators or the Environmental and Waste Management Services Division, Field Sampling Team.

Review of the analytical data shows that all parameters met their respective SPDES effluent limitations except for one excursion at Outfall 010 for aluminum and a non-compliance event at Outfall 001 for BOD-5 percent removal. With regard to aluminum, a sample collected at Outfall 010 on April 8, 2003, had a total concentration of 3.15 mg/L. A filtered sample collected at the same time had an aluminum concentration of 0.14 mg/L. The excursion is therefore attributed to sediments entrained in the stormwater system. Please see Attachment IV for the non-compliance report on this excursion event. The BOD-5 percent removal was calculated as >80 percent whereas the permit requirements are 85 percent. An excursion was not noted on the DMR since guidance on the NYSDEC website noted that the number of excursions are not reported for percent removal (see note 9). A non-compliance report has been completed and is included in Attachment IV

Collection and analysis of the SPDES permit samples are performed in accordance with the guidelines of the BNL Quality Assurance program. These guidelines include the routine calibration of instruments, standard operating procedures for collection and analysis of samples, use of standard methods of analysis, and validation of the contractor analytical data by the BNL analytical services laboratory. Brookhaven National Laboratory personnel collected all samples. A Quality Assurance inspection is performed periodically on contractor laboratories. The Quality Assurance



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ISO 14001: 1996



NSF's Registered Program  
is accredited by the American  
National Standards Institute  
Registration No. 00000000000000000000

July 21, 2003

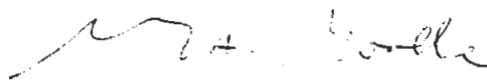
documentation is available from the Environmental and Waste Management Services Division or the Plant Engineering Division. Based on this information, we believe the values reported on the DMR are representative of the effluent from the BNL during the month of June 2003.

On May 20, 2003, the Laboratory was contacted by the NYSDEC-Albany requesting that bromodichloromethane (reporting code 38693) be reported as dichlorobromomethane (reporting code 32101) for quarterly volatile organic compound sampling performed at Outfalls 001 and 002. Since these are the same chemical compounds no changes other than updating the electronic DMR file is needed. The change is reflected in the attached DMR.

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 July 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 June 2003.
- Attachment II: Analytical Results from H2M Labs Inc., the BNL Analytical Services Laboratory, and GEL LLC for samples collected on 6/2/03, 6/4/03, and 6/6/03 from Outfall 001.
- Attachment III: Analytical Results from H2M Labs, 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.
- Attachment IV: Non-Compliance Report for June SPDES Excursions at Outfalls 010 and 001.

cc:	M. Allocco	w/attachments	M. Baldwin	w/attachments
	M. Bebon	w/o attachments	W. Chaloupka	w/attachments

S. Dierker  
G. Granzen  
C. Johnson  
E. Lessard  
E. Murphy  
V. Radeka  
J. Tarpinian

w/o attachments  
w/o attachments  
w/o attachments  
w/o attachments  
w/attachments  
w/o attachments  
w/o attachments

G. Goode  
J. Higbie  
R. Lee  
D. Lowenstein  
A. Queirolo  
B. Style  
D. Van Duyne

w/o Attachments  
w/attachments  
w/attachments  
w/o attachments  
w/o attachments  
w/o attachments  
w/attachments

EC62ER.03

**ATTACHMENT I**  
**BROOKHAVEN NATIONAL LABORATORY**  
**SPDES PERMIT NO. NY0005835**  
**DISCHARGE MONITORING REPORT FOR JUNE 2003**  
**FOR OUTFALLS NO. 001 – 010**

**Brookhaven National Laboratory**  
**SPDES Permit No. NY0005835**  
**Discharge Monitoring Report for June 2003**  
**Discharge Monitoring Report Notes:**

1. Since flow records are maintained on a weekly or monthly basis, the flow rate provided is the daily average.
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. The reported concentration is estimated at less than the method detection limit but greater than the instrument detection limit.
4. The quarterly compliance analysis was completed on a 24-hr. composite sample rather than a grab sample due to a scheduling error. This resulted in a higher method detection limit (0.40 µg/L) than the permit required detection limit (0.065 µg/L) for most of the individual congeners. PCBs were not detected in the quarterly compliance sample.
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 <sup>(a)</sup>	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
1-93B	36.4 GPD	7.3 SU	1.6 mg/L	< 10.0 µg/L	2.7 µg/L	< 5.0 µg/L
<b>Total Flow</b>	36.4 GPD					

<sup>(a)</sup>The photographic processor in Bldg. 197, Room 1-87 was shutdown during the first quarter of 2003 and is scheduled for dismantling.

6. The total aluminum concentration at Outfall 010 was 3.15 mg/L on 4/8/2003, which exceeded the permit limit of 2.0 mg/L. Please see Attachment IV for an explanation of this excursion.
7. The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
8. The average BOD-5 and percent removal were calculated using one-half the MDL as the value due to large uncertainty in the values reported by the analytical laboratory.
9. The percent removal for BOD-5 was calculated at > 80 percent and did not meet the permit requirement of 85 percent removal. As per the "Frequently Asked Questions" section of the NYSDEC Water Division website regarding number of excursions, the number of excursions for percent removal have not been calculated. Please see Attachment IV for an explanation of this excursion. (<http://www.dec.state.ny.us/website/dow/bwcp/FAQNoEx.html>)

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

NAME U S D O E  
 ADDRESS BROOKHAVEN NATIONAL LABORATORY  
 BROOKHAVEN AREA OFFICE 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)

MAJOR

NY0005835  
 Permit Number  
 Monitoring Period From To  
 YR MO DAY YR MO DAY  
 03 04 01 03 06 30  
 001 A Discharge Number  
 F - FINAL  
 ACID/CAUSTIC CLEANG RINSE S35B  
 \*\*\* 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			
FLOW RATE	197	*****	(07)	*****	*****	*****	0	03/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE	REPORT DAILY AV	*****	***	*****	*****	*****		QTRLY	RCORDR
PH	*****	*****	GPD	6.8	*****	6.8	0	01/90	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	***	REPORT MINIMUM	*****	REPORT MAXIMUM		QTRLY	GRAB
BIS (2-ETHYLHEXYL) PHTHALATE See Note 7	*****	*****	***	*****	*****	5	0	01/90	GR
39100 1 0 0 EFFLUENT GROSS VALUE	*****	*****	***	*****	*****	REPORT DAILY MX		QTRLY	GRAB
DI-N-BUTYL PHTHALATE	*****	*****	***	*****	*****	< 10	0	01/90	GR
39110 1 0 0 EFFLUENT GROSS VALUE	*****	*****	***	*****	*****	REPORT DAILY MX		QTRLY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Telephone 631-344-3424
Mr. Michael Holland Area Group Manager	Signature of Principal Executive Officer or Authorized Agent
Typed or Printed	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

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)

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

001 B Discharge Number  
 NY0005835 Permit Number  
 Monitoring Period  
 From To  
 YR MO DAY YR MO DAY  
 03 04 01 03 06 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			
FLOW RATE	390	*****	(07)	*****	*****	*****	0	01/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE	REPORT DAILY AV	*****	GPD	*****	*****	*****	0	QTRLY	RCORDR
PH	*****	*****		6.9	*****	6.9	0	01/90	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****		REPORT MINIMUM	*****	REPORT MAXIMUM	0	QTRLY	GRAB
CHROMIUM, TOTAL (AS CR) 01034 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	*****		*****	*****	0.0052	0	01/90	GR
See Note 3	PERMIT REQUIREMENT	*****		*****	*****	REPORT DAILY MX	0	01/90	GRAB
01034 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	*****		*****	*****	0.21	0	01/90	GR
COPPER, TOTAL (AS CU) 01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****		*****	*****	REPORT DAILY MX	0	QTRLY	GRAB
01042 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	*****		*****	*****	0.31	0	01/90	GR
IRON, TOTAL (AS FE) 01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****		*****	*****	REPORT DAILY MX	0	QTRLY	GRAB
01045 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	*****		*****	*****	0.0052	0	01/90	GR
MANGANESE, TOTAL (AS MN) 01055 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****		*****	*****	REPORT DAILY MX	0	QTRLY	GRAB
01055 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	*****		*****	*****	0.0053	0	01/90	GR
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****		*****	*****	REPORT DAILY MX	0	QTRLY	GRAB
01067 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	*****		*****	*****	REPORT DAILY MX	0	QTRLY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.								
Mr. Michael Holland Area Group Manager	Signature of Principal Executive Officer or Authorized Agent								
Telephone 631-344-3424	Date Signed								

Typed or Printed

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

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

NAME U S D O E  
 ADDRESS BROOKHAVEN NATIONAL LABORATORY  
 BROOKHAVEN AREA OFFICE NY 11973  
 UPTON  
 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 B Discharge Number  
 (SUBR 01)  
 F - FINAL  
 RINSE FROM CENTRL DEGREASR 498  
 \*\*\* No Discharge  \*\*\*

MAJOR

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
ZINC, TOTAL (AS ZN)	*****	*****	*****	*****	*****	0.012	(28)	0	01/90	GR
01092 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	REPORT DAILY MX	UG/L	0	QTRLY	GRAB
1,2-DICHLOROETHANE	*****	*****	*****	*****	*****	< 1	(28)	0	01/90	GR
32103 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	REPORT DAILY MX	UG/L	0	QTRLY	GRAB
CHLOROFORM	*****	*****	*****	*****	*****	< 1	(28)	0	01/90	GR
32106 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	REPORT DAILY MX	UG/L	0	QTRLY	GRAB
1,1,1-TRICHLOROETHANE	*****	*****	*****	*****	*****	< 1	(28)	0	01/90	GR
34506 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	REPORT DAILY MX	UG/L	0	QTRLY	GRAB
DICHLOROBROMOMETHANE	*****	*****	*****	*****	*****	< 1	(28)	0	01/90	GR
32101 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	REPORT DAILY MX	UG/L	0	QTRLY	GRAB
BIS (2-ETHYLHEXYL) PHTHALATE	*****	*****	*****	*****	*****	< 10	(28)	0	01/90	GR
39100 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	REPORT DAILY MX	UG/L	0	QTRLY	GRAB
DI-N-BUTYL PHTHALATE	*****	*****	*****	*****	*****	< 10	(28)	0	01/90	GR
39110 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	REPORT DAILY MX	UG/L	0	QTRLY	GRAB

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Mr. Michael Holland  
 Area Group Manager

Signature of Principal Executive Officer or Authorized Agent

Telephone  
 631-344-3424

Date Signed

Comments and Explanation of any violations (Reference all attachments here)  
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 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION UPTON NY 11973  
 ATTN: GEORGE MALOSH, GROUP MGR

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

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

NY0005835		001 B		Discharge Number	
Permit Number					
Monitoring Period					
From			To		
YR	MO	DAY	YR	MO	DAY
03	04	01	03	06	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			
TETRACHLOROETHYLENE	*****	*****	*****	*****	*****	< 1	0	01/90	GR
85814 1 0 0	*****	*****	*****	*****	*****	REPORT DAILY MAX		QTRLY	GRAB
EFFLUENT GROSS VALUE									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
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SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		Telephone	
Mr. Michael Holland Area Group Manager		631-344-3424	
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent	
Comments and Explanation of any violations (Reference all attachments here)		Date Signed	
NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSEDEC 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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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

MAJOR (SUBR 01)  
 F - FINAL  
 PHOTOPROCESSING RINSE FROM 1978

NY0005835  
 Permit Number  
 Discharge Number 001 D

Monitoring Period	
From	To
YR MO DAY	YR MO DAY
03 04 01	03 06 30

\*\*\* 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	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW RATE	36.4	.....	.....	.....	.....	(07)	0	01/90	RC
00056 1 0 1 EFFLUENT GROSS VALUE	REPORT DAILY AV	.....	.....	.....	.....	GPD	0	QTRLY	RCORDR
PH	.....	.....	7.3	.....	7.3		0	01/90	GR
00400 1 0 0 EFFLUENT GROSS VALUE	.....	.....	REPORT MINIMUM	.....	REPORT MAXIMUM	SU	0	QTRLY	GRAB
NITROGEN, TOTAL (AS N)	.....	.....	.....	.....	1.6	(19)	0	01/90	GR
00600 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	REPORT DAILY MX	MG/L	0	QTRLY	GRAB
CYANIDE, TOTAL (AS CN)	.....	.....	.....	.....	< 10	(28)	0	01/90	GR
00720 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	REPORT DAILY MX	UG/L	0	QTRLY	GRAB
SILVER, TOTAL (AS AG)	.....	.....	.....	.....	2.7	(28)	0	01/90	GR
01077 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	REPORT DAILY MX	UG/L	0	QTRLY	GRAB
PHENOLICS, TOTAL RECOVERABLE	.....	.....	.....	.....	< 5.0	(28)	0	01/90	GR
32730 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	REPORT DAILY MX	UG/L		QTRLY	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

Comments and Explanation of any violations (Reference all attachments here)  
 NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSEDEC APPROVAL. SAMPLES TO BE COLLECTED FROM MANHOLE NEAREST THE BUILDING. 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  
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 LOCATION UPTON NY 11973  
 ATTN: GEORGE MALOSH, GROUP MGR

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

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

NY0005835 Permit Number		001 M Discharge Number	
Monitoring Period			
From	To		
YR MO DAY	YR MO DAY		
03 04 01	03 06 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			
TEMPERATURE, WATER DEG. FAHRENHEIT	.....	.....	.....	.....	.....	.....	0	01/01	GR
00011 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	.....	0	DAILY	GRAB
BOD, 5-DAY (20 DEG. C) See Note 8	.....	.....	.....	.....	.....	.....	0	06/30	24
00310 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	.....	0	ONCE/MONTH	COMP24
PH	.....	.....	.....	6.1	.....	.....	0	01/01	GR
00400 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	5.3	.....	.....	0	DAILY	GRAB
SOLIDS, TOTAL SUSPENDED See Note 3	.....	.....	.....	.....	.....	.....	0	03/30	24
00530 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	.....	0	ONCE/MONTH	COMP24
SOLIDS, SETTLEABLE	.....	.....	.....	.....	.....	.....	0	01/01	GR
00545 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	.....	0	DAILY	GRAB
NITROGEN, TOTAL (AS N)	.....	.....	.....	.....	.....	.....	0	03/30	24
00600 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	.....	0	ONCE/MONTH	COMP24
NITROGEN, AMMONIA TOTAL (AS N)	.....	.....	.....	.....	.....	.....	0	03/30	24
00610 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	.....	0	ONCE/MONTH	COMP24

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Mr. Michael Holland  
 Area Group Manager

Telephone  
 631-344-3424

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 EXFLT FROM SFBS. SEE PERMIT FOR ADDITIONAL NOTES COMMENTS AND REQUIREMENTS.

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
U S D O E  
BROOKHAVEN NATIONAL LABORATORY  
BROOKHAVEN AREA OFFICE  
UPTON NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION UPTON NY 11973  
ATTN: GEORGE MALOSH, GROUP MGR

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

001 M  
Discharge Number

Monitoring Period  
From To  
YR MO DAY YR MO DAY  
03 04 01 03 06 30

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE			
PHOSPHORUS, TOTAL (AS P)	*****	*****	*****	*****	*****	0	03/30	24
00665 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
CYANIDE, TOTAL (AS CN)	*****	*****	*****	*****	*****	0	03/30	GR
00720 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	TWICE/MONTH	GRAB
COPPER, TOTAL (AS CU)	*****	*****	*****	*****	*****	0	03/30	24
01042 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
IRON, TOTAL (AS FE)	*****	*****	*****	*****	*****	0	03/30	24
01045 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
LEAD, TOTAL (AS PB)	*****	*****	*****	*****	*****	0	03/30	24
01051 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
NICKEL, TOTAL (AS NI)	*****	*****	*****	*****	*****	0	03/30	24
01067 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
SILVER, TOTAL (AS AG)	*****	*****	*****	*****	*****	0	03/30	24
01077 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	0	ONCE/MONTH	COMP24
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.							
Mr. Michael Holland Area Group Manager	Signature of Principal Executive Officer or Authorized Agent							
Typed or Printed	Telephone 631-344-3424							
	Date Signed							

Note: Read instructions before completing this form

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 EXFLT FROM SPS. 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 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)

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

NY0005835 Discharge Number  
 001 M (SUBR 01)  
 F - FINAL

Monitoring Period  
 From To  
 YR MO DAY YR MO DAY  
 03 04 01 03 06 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			
ZINC, TOTAL (AS ZN)	.....	.....	.....	.....	.....	0	03/30	24
01092 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	0	ONCE/MONTH	COMP24
TOLUENE	.....	.....	.....	.....	.....	0	03/30	GR
34010 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	0	TWICE/MONTH	GRAB
METHYLENE CHLORIDE	.....	.....	.....	.....	.....	0	03/30	GR
34423 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	0	TWICE/MONTH	GRAB
1,1,1-TRICHLORO-ETHANE	.....	.....	.....	.....	.....	0	03/30	GR
34506 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	0	TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.48	0.64	(03)	.....	.....	0	99/99	RC
50050 1 0 0 EFFLUENT GROSS VALUE	REPORT	DAILY AV	MGD	.....	.....	0	CONTINUOUS	RCORDR
MERCURY, TOTAL (AS HG)	.....	.....	.....	.....	.....	0	03/30	24
71900 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	0	ONCE/MONTH	COMP24
COLIFORM, FECAL GENERAL	.....	.....	.....	.....	.....	0	03/30	GR
74055 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	0	ONCE/MONTH	GRAB

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Mr. Michael Holland  
 Area Group Manager

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.

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
 NAME U S D O E  
 ADDRESS BROOKHAVEN NATIONAL LABORATORY  
 BROOKHAVEN AREA OFFICE NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION UPTON NY 11973  
 ATTN: GEORGE MALOSH, GROUP MGR

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			
2-BUTANONE	*****	*****	*****	*****	*****	< 2	0	03/30	GR
78356 1 0 0	*****	*****	*****	*****	*****	50		TWICE/MONTH	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX			
BOB, 5-DAY PERCENT REMOVAL See Notes 8 & 9	*****	*****	*****	> 80	*****	*****	0	01/30	CA
81010 K 0 0	*****	*****	*****	85	*****	*****		ONCE/MONTH	CALCTD
PERCENT REMOVAL SOLIDS, SUSPENDED	*****	*****	*****	MO AV MN	*****	PERCENT	0	01/30	CA
PERCENT REMOVAL	*****	*****	*****	> 97	*****	*****			
81011 K 0 0	*****	*****	*****	85	*****	*****		ONCE/MONTH	CALCTD
PERCENT REMOVAL	*****	*****	*****	MO AV MN	*****	PERCENT			

NY0005835 Permit Number  
 001 M Discharge Number  
 Monitoring Period  
 From To  
 YR MO DAY YR MO DAY  
 03 04 01 03 06 30

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Mr. Michael Holland  
 Area Group Manager

Telephone  
 631-344-3424

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 EXFILTR 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 NATIONAL LABORATORY  
 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)

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

Permit Number	001 Q	Discharge Number	
Monitoring Period			
From	To		
YR MO DAY YR MO DAY			
03 04 01 03 06 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
POLYCHLORINATED BIPHENYLS (PCBS) 39516 1 0 0 See Note 4 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	< 0.40	(28)	0	01/90	CA
	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									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Telephone
Mr. Michael Holland Area Group Manager	631-344-3424
Typed or Printed	Date Signed
	Signature of Principal Executive Officer or Authorized Agent

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 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)

Permit Number NY0005835  
 Discharge Number 002 Q  
 Monitoring Period From To  
 YR MO DAY YR MO DAY  
 03 04 01 03 06 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			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
ALUMINUM, TOTAL (AS AL)	*****	*****	*****	*****	*****	0.13	0	01/90	GR
01105 1 0 1	*****	*****	*****	*****	*****	2.0	0	QTRLY	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX			
CHLOROFORM	*****	*****	*****	*****	*****	< 1	0	01/90	GR
32106 1 0 0	*****	*****	*****	*****	*****	50	0	QTRLY	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX			
1,1,1-TRICHLORO-ETHANE	*****	*****	*****	*****	*****	< 1	0	01/90	GR
34506 1 0 0	*****	*****	*****	*****	*****	7	0	QTRLY	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX			
DICHLOROBROMOMETHANE	*****	*****	*****	*****	*****	< 1	0	01/90	GR
EFFLUENT	*****	*****	*****	*****	*****	5	0	QTRLY	GRAB
32101 1 0 0	*****	*****	*****	*****	*****	DAILY MX			
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	< 0.05	0	01/90	GR
1-HYDROXY-ETHYLIDENE	*****	*****	*****	*****	*****	0.5	0	QTRLY	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX			
TOLYTRIAZOLE	*****	*****	*****	*****	*****	< 0.005	0	01/90	GR
85812 1 0 0	*****	*****	*****	*****	*****	0.2	0	QTRLY	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX			
85813 1 0 0	*****	*****	*****	*****	*****	0.2	0	QTRLY	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX			

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Mr. Michael Holland  
 Area Group Manager  
 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 DOWNS TREAM 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 NY 11973  
 UPTON  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION UPTON NY 11973  
 ATTN: GEORGE MALOSH, GROUP MGR

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

MAJOR (SUBR 01)  
 F - FINAL  
 NY005835 Discharge Number  
 005 Q  
 Monitoring Period  
 From To  
 YR MO DAY YR MO DAY  
 03 04 01 03 06 30  
 NLS COOLG TOWR BLOWDN ETC (HS) \*\*\* 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) 01042 1 0 0	MEASUREMENT	.....	.....	.....	.....	0.0032	(19)	0	01/90	GR
	PERMIT REQUIREMENT	.....	.....	.....	.....	1.0 DAILY MX	MG/L	0	QTRLY	GRAB
EFFLUENT GROSS VALUE 1-HYDROXY-ETHYLIDENE	MEASUREMENT	.....	.....	.....	.....	< 0.05	(19)	0	01/90	GR
	PERMIT REQUIREMENT	.....	.....	.....	.....	0.5 DAILY MX	MG/L	0	QTRLY	GRAB
85812 1 0 0 EFFLUENT GROSS VALUE TOLYTRIAZOLE	MEASUREMENT	.....	.....	.....	.....	< 0.005	(19)	0	01/90	GR
	PERMIT REQUIREMENT	.....	.....	.....	.....	0.2 DAILY MX	MG/L	0	QTRLY	GRAB
85813 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	.....	.....	.....	.....					
	PERMIT REQUIREMENT	.....	.....	.....	.....					
	MEASUREMENT	.....	.....	.....	.....					
	PERMIT REQUIREMENT	.....	.....	.....	.....					
	MEASUREMENT	.....	.....	.....	.....					
	PERMIT REQUIREMENT	.....	.....	.....	.....					
	MEASUREMENT	.....	.....	.....	.....					
	PERMIT REQUIREMENT	.....	.....	.....	.....					
	MEASUREMENT	.....	.....	.....	.....					
	PERMIT REQUIREMENT	.....	.....	.....	.....					
<p>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.</p>									Telephone 631-344-3424	
<p>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER</p> <p>Mr. Michael Holland Area Group Manager</p>									Signature of Principal Executive Officer or Authorized Agent	
<p>Comments and Explanation of any violations (Reference all attachments here)</p> <p>NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS.</p>									Date Signed	
<p>Typed or Printed</p>										

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

007 M Discharge Number  
 NY0005835 Permit Number  
 MAJOR (SUBR 01) F - FINAL  
 Monitoring Period  
 From To  
 YR MO DAY YR MO DAY  
 03 04 01 03 06 30  
 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	MINIMUM	AVERAGE	MAXIMUM			
FLOW RATE	*****	240000	*****	*****	*****	0	20/30	IN
00056 1 0 0 EFFLUENT GROSS VALUE	*****	REPORT DAILY MAX	*****	*****	*****	0	ONCE/MONTH	INSTAN
PH	*****	*****	6.5	*****	(12)	0	01/30	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	REPORT MINIMUM	*****	9.0 MAXIMUM	0	ONCE/MONTH	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								
SAMPLE MEASUREMENT								
PERMIT REQUIREMENT								

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Mr. Michael Holland  
 Area Group Manager  
 Signature of Principal Executive Officer or Authorized Agent  
 Telephone  
 631-344-3424  
 Date Signed

Comments and Explanation of any violations (Reference all attachments here):  
 SAMPLES TO BE COLLECTED AT EFFLUENT PIPE TO WHICH EVER 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)

MAJOR

NY0005835 Permit Number  
 008 M Discharge Number  
 (SUBR 01)  
 F - FINAL  
 STORMWTR RUNOFF WAREHOUSE (HW)  
 \*\*\* 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			
FLOW RATE	See Note 3	212000	(07)	*****	*****	0	01/30	IN
00056 1 0 0 EFFLUENT GROSS VALUE	*****	REPORT DAILY MX	GPD	*****	*****	0	ONCE/MONTH	INSTAN
PH	*****	*****	*****	7.9	7.9	0	01/30	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	REPORT MINIMUM	8.5 MAXIMUM	0	ONCE/MONTH	GRAB
OIL & GREASE	*****	*****	*****	*****	1.8	0	01/30	GR
00556 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	15 DAILY MX	0	ONCE/MONTH	GRAB
1,1,1-DICHLOROETHYLENE	*****	*****	*****	*****	< 2	0	01/30	GR
34501 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	5 DAILY MX	0	ONCE/MONTH	GRAB
1,1,1-TRICHLORO-ETHANE	*****	*****	*****	*****	< 2	0	01/30	GR
34506 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	5 DAILY MX	0	ONCE/MONTH	GRAB
NAME/TITLE	PRINCIPAL EXECUTIVE OFFICER		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		Date Signed
Mr. Michael Holland Area Group Manager								Telephone 631-344-3424
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.

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 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)

MAJOR

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

Monitoring Period  
 From YR MO DAY YR MO DAY To  
 03 04 01 03 06 30

SW RUNOFF FROM WAREHOUSE AREA  
 \*\*\* 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
ALUMINUM, TOTAL (AS AL) 01105 1 0 0	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.3	(19)	0	01/90	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	2.0 DAILY MX	MGL		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									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Mr. Michael Holland  
 Area Group Manager

Typed or Printed

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

Signature of Principal Executive Officer or Authorized Agent

Telephone  
 631-344-3424

Date Signed

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
 NAME U S D O E  
 ADDRESS BROOKHAVEN NATIONAL LABORATORY  
 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)

MAJOR DISCHARGE NUMBER: 010 M (SUJR 01)  
 F - FINAL  
 STORMWTR R O CENTRAL STEAM (H)

Permit Number: NY0005835  
 Discharge Number: 010 M  
 Monitoring Period: From 03/04 to 06/30

No Discharge

Note: Read Instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE			
FLOW RATE		187000					0	01/30	IN
00056 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT PERMIT REQUIREMENT	REPORT DAILY MX						ONCE/MONTH	INSTAN
PH									
00400 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT PERMIT REQUIREMENT							ONCE/MONTH	GRAB
OIL & GREASE								ONCE/MONTH	GR
00556 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT PERMIT REQUIREMENT							ONCE/MONTH	GRAB

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

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)

MAJOR (SUBR 01)  
 F - FINAL  
 SW RUNOFF FROM CENTRAL STM (H)  \*\*\* No Discharge

NY0005835		010 Q	
Permit Number		Discharge Number	
Monitoring Period			
From	To		
YR MO DAY	YR MO DAY		
03 04 01	03 06 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
COPPER, TOTAL (AS CU)	.....	.....	.....	.....	.....	0.015	(19)	0	02/90	GR
See Note 3	.....	.....	.....	.....	.....	1.0	DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	0.009	(19)	0	02/90	GR
LEAD, TOTAL (AS PB)	.....	.....	.....	.....	.....	0.05	DAILY MX		QTRLY	GRAB
EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	0.014	(19)	0	02/90	GR
VANADIUM, TOTAL (AS V)	.....	.....	.....	.....	.....	REPORT	DAILY MX		QTRLY	GRAB
See Note 3	.....	.....	.....	.....	.....	3.2	(19)	1	02/90	GR
EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....	2.0	DAILY MX		QTRLY	GRAB
ALUMINUM, TOTAL (AS AL)	.....	.....	.....	.....	.....					
See Note 6	.....	.....	.....	.....	.....					
EFFLUENT GROSS VALUE	.....	.....	.....	.....	.....					

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Mr. Michael Holland  
 Area Group Manager  
 Telephone 631-344-3424  
 Signature of Principal Executive Officer or Authorized Agent  
 Date Signed

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

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

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

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

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

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

Permit Number NY0005835		Discharge Number 06A M	
Monitoring Period			
From	To		
YR MO DAY	YR MO DAY		
03 04 01	03 06 30		

Note: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	.....	.....	6.9	.....	7.6	(12)	0	04/30	GR
00400 1 0 0 EFFLUENT GROSS VALUE	.....	.....	REPORT MINIMUM	.....	9.0 MAXIMUM	SU	0	ONCE/MONTH	GRAB
OIL & GREASE	.....	.....	.....	.....	1.3	(19)	0	01/30	GR
00556 1 0 0 EFFLUENT GROSS VALUE	.....	.....	.....	.....	15 DAILY MX	MG/L	0	ONCE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.21	.....	.....	.....	.....	.....	0	04/30	RC
50050 1 0 1 EFFLUENT GROSS VALUE	REPORT DAILY AV	.....	.....	.....	.....	.....	0	ONCE/MONTH	RCORDR
	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		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.							
Mr. Michael Holland Area Group Manager		Telephone 631-344-3424							
Typed or Printed		Signature of Principal Executive Officer or Authorized Agent							
Comments and Explanation of any violations (Reference all attachments here)		Date Signed							

SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS.

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
U S D O E  
BROOKHAVEN NATIONAL LABORATORY  
BROOKHAVEN AREA OFFICE  
UPTON NY 11973

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

NY0005835 06A Q  
Permit Number Discharge Number  
Monitoring Period

From	To
YR MO DAY YR MO DAY	
03 04 01 03 06 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			
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		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.									
Mr. Michael Holland Area Group Manager											
Typed or Printed		Telephone 631-344-3424									
		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)

MAJOR

06B M Discharge Number

(SUBR 01) F - FINAL

COOLING TOWR FROM 919 ETC (HT2)

\*\*\* No Discharge

Monitoring Period table with columns for From and To (YR, MO, DAY) and rows for 03, 04, 01, 03, 06, 30.

Note: Read Instructions before completing this form

Main data table with columns: PARAMETER, QUANTITY OR LOADING (Average, Maximum, Units), QUALITY OR CONCENTRATION (Minimum, Average, Maximum, Units), NO. EX, FREQUENCY OF ANALYSIS, SAMPLE TYPE.

Signature and contact information table including NAME/TITLE, Principal Executive Officer, and Date Signed.

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

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
 NAME U S O E  
 ADDRESS BROOKHAVEN NATIONAL LABORATORY  
 BROOKHAVEN AREA OFFICE NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION UPTON NY 11973  
 ATTN: GEORGE MALOSH, GROUP MGR

MAJOR (SUBR 01)  
 F - FINAL  
 COOLG TOWRS FROM 919 ETC (HT2)

NY0005835 Permit Number	06B Q Discharge Number
Monitoring Period	
From	To
YR MO DAY	YR MO DAY
03 04 01 03 06 30	

\*\*\* 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	PERMIT REQUIREMENT	*****	*****	****	*****	0.5 DAILY MX	MG/L		QTRLY	GRAB	
TOLYTRIAZOLE	SAMPLE MEASUREMENT	*****	*****		*****	< 0.005	(19)	0	01/90	GR	
85813 1 0 0	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		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									
Mr. Michael Holland Area Group Manager										Telephone 631-344-3424	
Typed or Printed										Signature of Principal Executive Officer or Authorized Agent	
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 JUNE 2003**  
**ANALYTICAL RESULTS FROM H2M LABS,**  
**THE BNL ANALYTICAL SERVICES LABORATORY,**  
**AND CHEMTEX LLC**  
**FOR REGULATORY COMPLIANCE SAMPLES COLLECTED**  
**6/2/03, 6/4/03, 6/6/03, 6/23/03, 6/25/03, AND 6/27/03**  
**FROM OUTFALL 001**

NYSDEC - ASP  
1  
INORGANIC ANALYSIS DATA SHEET

Lab Name: Brookhaven National Laboratory - ASL  
 Lab Code: \_\_\_\_\_  
 Matrix: Water  
 Level: \_\_\_\_\_

SAMPLE NO.  
17038-001

C.O.C.#: 17038  
 Lab sample ID: 23060206-01  
 Date Rcvd.: 6/2/03

Concentration Units: ( ug/L )

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	47.4	B		ICP/MS
7440-36-0	Antimony	6	U		ICP/MS
7440-38-2	Arsenic	1.5			ICP/MS
7440-39-3	Barium	17.0	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	2.5	B		ICP/MS
7440-48-4	Cobalt	5.0	U		ICP/MS
7440-50-8	Copper	35.4			ICP/MS
7439-89-6	Iron	226	B		AA
7439-92-1	Lead	2.1			ICP/MS
7439-96-5	Manganese	5.3			ICP/MS
7439-97-6	Mercury	0.15	B		CV
7439-98-7	Molybdenum	69.5			ICP/MS
7440-02-0	Nickel	3.0	B		ICP/MS
7782-49-2	Selenium	0.9	B		ICP/MS
7440-22-4	Silver	3.2			ICP/MS
7440-23-5	Sodium	26.5 <sup>µg/L</sup> <i>as per P. Keyser 7/19/03</i>			AA
7440-28-0	Thallium	1.0	U		ICP/MS
7440-62-2	Vanadium	4.5	B		ICP/MS
7440-66-6	Zinc	81.1			ICP/MS

Outfall 001  
 Sampled 6/2/03  
 24 Hr. Composite

NYSDEC - ASP  
1  
INORGANIC ANALYSIS DATA SHEET

Lab Name: Brookhaven National Laboratory - ASL  
 Lab Code: \_\_\_\_\_  
 Matrix: Water  
 Level: \_\_\_\_\_

SAMPLE NO.

17044-001

C.O.C.#: 17044

Lab sample ID: 23060410-01

Date Rcvd.: 6/4/03

Concentration Units: ( ug/L )

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25.4	B		ICP/MS
7440-36-0	Antimony	6	U		ICP/MS
7440-38-2	Arsenic	1.2			ICP/MS
7440-39-3	Barium	19.0	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	1.6	B		ICP/MS
7440-48-4	Cobalt	5.0	U		ICP/MS
7440-50-8	Copper	29.6			ICP/MS
7439-89-6	Iron	154	B		AA
7439-92-1	Lead	1.1			ICP/MS
7439-96-5	Manganese	5.4			ICP/MS
7439-97-6	Mercury	0.1	U		CV
7439-98-7	Molybdenum	60.7			ICP/MS
7440-02-0	Nickel	2.8	B		ICP/MS
7782-49-2	Selenium	0.8	B		ICP/MS
7440-22-4	Silver	1.2			ICP/MS
7440-23-5	Sodium	27.7 <sup>ug</sup> <i>MS/L as per P. Hayde 7-14-03</i>			AA
7440-28-0	Thallium	1.0	U		ICP/MS
7440-62-2	Vanadium	3.2	B		ICP/MS
7440-66-6	Zinc	104			ICP/MS

*Outfall 001  
 Sampled 6-4-03  
 24 Hr. Composite*

NYSDEC - ASP  
1  
INORGANIC ANALYSIS DATA SHEET

Lab Name: Brookhaven National Laboratory - ASL  
 Lab Code: \_\_\_\_\_  
 Matrix: Water  
 Level: \_\_\_\_\_

SAMPLE NO.  
17057-001

C.O.C.#: 17057  
 Lab sample ID: 23060608-01  
 Date Rcvd.: 6/2/03

Concentration Units: ( ug/L )

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19.7	B		ICP/MS
7440-36-0	Antimony	6	U		ICP/MS
7440-38-2	Arsenic	1.1			ICP/MS
7440-39-3	Barium	18.2	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	1.6	B		ICP/MS
7440-48-4	Cobalt	5.0	U		ICP/MS
7440-50-8	Copper	26.7			ICP/MS
7439-89-6	Iron	163	B		AA
7439-92-1	Lead	1.6			ICP/MS
7439-96-5	Manganese	6.0			ICP/MS
7439-97-6	Mercury	0.12	B		CV
7439-98-7	Molybdenum	38.9			ICP/MS
7440-02-0	Nickel	2.5	B		ICP/MS
7782-49-2	Selenium	0.5	U		ICP/MS
7440-22-4	Silver	3.4			ICP/MS
7440-23-5	Sodium	23.3 <sup>µg/L</sup> as per P. Hays 7-14-03			AA
7440-28-0	Thallium	1.0	U		ICP/MS
7440-62-2	Vanadium	3.1	B		ICP/MS
7440-66-6	Zinc	40.6			ICP/MS

Outfall 001  
 Sampled 6-6-03  
 24hr. Composite

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:

23060206-02
-------------

Matrix: (soil/water) water Date Analyzed: 6/16/2003  
 Sample wt/vol: 25.0 (g/mL)      mL Lab File ID: 30616B11.D  
 Level: (low/med) low Dilution Factor: 1  
 Dilution information: N/A

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	<u>ug/L</u>	
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 6-2-03  
Grab Sample

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:

23060410-02

Matrix: (soil/water) water Date Analyzed: 6/17/2003  
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 30617B08.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 6-4-03  
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:  
23060608-02

Matrix: (soil/water)      water      Date Analyzed: 6/18/2003  
 Sample wt/vol:      25.0 (g/mL) mL      Lab File ID: 30618B06.D  
 Level: (low/med)      low      Dilution Factor: 1  
 Dilution information:      N/A

CAS No.	Compound	Concentration Units:		
		(ug/L or ug/Kg)	ug/L	
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 6-6-03  
 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

Contact: John Burke  
 Project: SPDES

Report Date: June 13, 2003

Page 1 of 2

Client Sample ID: 17037-001	Project: BRKL00404
Sample ID: 81469001	Client ID: BRKL004
Matrix: Water	COC: 17037
Collect Date: 02-JUN-03 12:22	Sample Recv.: 17037
Receive Date: 03-JUN-03 09:45	Client Desc.: STP Effluent
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Solids Analysis Federal</b>											
<i>EPA 160.2 Total Suspended Liq</i>											
Total Suspended Solids	J	1.79	0.402	2.63	mg/L		JXM	06/09/03	1343	256290	1
<b>TRAACS Nutrient Analysis Fed</b>											
<i>EPA 365.4 Phosphorus, Total in</i>											
Phosphorus, Total as PO4		1.48	0.0162	0.050	mg/L	1	THL	06/06/03	1000	255430	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	SDS	06/05/03	1500	255429

**The following Analytical Methods were performed**

Method	Description	Analyst	Comments
1	EPA 160.2		
2	EPA 365.4		

Outfall 001  
 Sampled 6-2-03  
 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.geel.com

**Certificate of Analysis**

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

Report Date: June 24, 2003

Contact: John Burke  
Project: SPDES

Page 1 of 2

Client Sample ID:	17046-001	Project:	BRKL00404
Sample ID:	81672001	Client ID:	BRKL004
Matrix:	Water	COC:	17046
Collect Date:	04-JUN-03 10:15	Samp Recv.:	17046
Receive Date:	05-JUN-03 09:20	Client Desc.:	STP Effluent
Collector:	Client		

Parameter	Qualifier	Result	DL	RI	Units	DF	Analyst	Date	Time	Batch	Method
<b>Solids Analysis Federal</b>											
EPA 160.2 Total Suspended Liq											
Total Suspended Solids	J	1.50	0.382	2.50	mg/L		SDS	06/11/03	0955	256898	1
<b>TRAACS Nutrient Analysis Fed</b>											
EPA 365.4 Phosphorus, Total in											
Phosphorus, Total as P		1.27	0.0162	0.050	mg/L	1	THL	06/20/03	1146	258580	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	06/19/03	1020	258579

**The following Analytical Methods were performed**

Method	Description	Analyst	Comments
1	EPA 160.2		
2	EPA 365.4		

*cutfall 001  
Sampled 6-4-03  
24 Hr. Composite*

**Notes:**

The Qualifiers in this report are defined as follows :

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- BD Flag for results below the MDC or a flag for low tracer recovery.
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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.

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

# GENERAL ENGINEERING LABORATORIES, LLC

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

## Certificate of Analysis

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

Report Date: June 30, 2003

Contact: John Burke  
 Project: SPDES

Page 1 of 2

Client Sample ID:	17059-001	Project:	BRKL00404
Sample ID:	81849001	Client ID:	BRKL004
Matrix:	Water	COC:	17059
Collect Date:	06-JUN-03 11:00	Sample Recv.:	17059
Receive Date:	07-JUN-03 09:45	Client Desc.:	STP Effluent
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Solids Analysis Federal</b>											
<i>EPA 160.2 Total Suspended Liq</i>											
Total Suspended Solids	J	0.700	0.382	2.50	mg/L		JXM	06/13/03	1329	257442	1
<b>TRAACS Nutrient Analysis Fed</b>											
<i>EPA 365.4 Phosphorus, Total in</i>											
Phosphorus, Total as P		1.41	0.0162	0.050	mg/L	1	THL	06/20/03	1147	258580	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	06/19/03	1020	258579

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	EPA 160.2	
2	EPA 365.4	

Outfall 001  
 Sampled 6-6-03  
 24 Hr. Composite

**Notes:**

The Qualifiers in this report are defined as follows :

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- > Result is greater than amount reported.
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- 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  
  
Contact: John Burke  
Project: SPDES

Report Date: June 13, 2003

Page 1 of 2

Client Sample ID:	17037-002	Project:	BRKL00404
Sample ID:	81469002	Client ID:	BRKL004
Matrix:	Water	COC:	17037
Collect Date:	02-JUN-03 12:30	Samp Recv.:	17037
Receive Date:	03-JUN-03 09:45	Client Desc.:	STP Effluent
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Rapid Flow Analysis Federal</b>											
<i>SW9012A Cyanide, Total Federal</i>											
Cyanide, Total	U	1.38	1.72	5.00	ug/L	1	ADF	06/11/03	1639	255634	1

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	SDS	06/10/03	1330	255633

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9012A	

**Notes:**

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- 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.

*Outfall 001  
Sampled 02-03  
Grab Sample*

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: June 24, 2003

Contact: John Burke  
 Project: SPDES

Page 1 of 2

Client Sample ID: 17046-002  
 Sample ID: 81672002  
 Matrix: Water  
 Collect Date: 04-JUN-03 13:15  
 Receive Date: 05-JUN-03 09:20  
 Collector: Client

Project: BRKL00404  
 Client ID: BRKL004  
 COC: 17046  
 Samp Recv.: 17046  
 Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Rapid Flow Analysis Federal</b>											
<i>SW9012A Cyanide, Total Federal</i>											
Cyanide, Total	J	2.04	1.72	5.00	ug/L	1	ADF	06/10/03	1006	255890	1

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	SDS	06/06/03	1605	255889

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9012A	

**Notes:**

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- 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.

*Outfall 001  
 Sampled 6-4-03  
 Grab Sample*

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: July 16, 2003

Contact: John Burke  
 Project: SPDES

Page 1 of 2

Client Sample ID: 17059-002  
 Sample ID: 81849002  
 Matrix: Water  
 Collect Date: 06-JUN-03 13:15  
 Receive Date: 07-JUN-03 09:45  
 Collector: Client

Project: BRKL00404  
 Client ID: BRKL004  
 COC: 17059  
 Samp Recv.: 17059  
 Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Rapid Flow Analysis Federal</b>											
<i>SW9012A Cyanide, Total Federal</i>											
Cyanide, Total	U	ND	1.72	5.00	ug/L	1	ADF	06/18/03	1624	257817	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	ADF	06/18/03	1030	257815

The following Analytical Methods were performed

Method	Description	Analyst Comments
I	SW846 9012A	

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.

*Outfall 001  
 Sampled 6-6-03  
 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. : 0306047-002

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 17036-002

Collected 6/2/2003 12:30:00 PM  
Received 6/2/2003 3:27:00 PM  
Collected By CLIENT  
Copies To Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Fecal Coliform	< 2	MPN	M9221 C	6/2/2003 4:45:00 PM

Outfall 001  
Sampled 6-2-03  
Grab Sample

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

Date Reported : 6/17/2003

*Joann M. Slavin*

Laboratory Manager

# 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. : 0306127-002A

Sample Information...  
Type : Aqueous  
Origin:

Client ID. : 17045-002

Collected 6/4/2003 1:15:00 PM  
Received 6/4/2003 3:35:00 PM  
Collected By : CLIENT  
Copy : Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Fecal Coliform	< 2	MPN	M9221 C	6/4/2003 3:45:00 PM

Outfall 001  
Sampled 6-4-03  
Grab Sample

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

Date Reported : 6/17/2003

*Joann M. Slavin*

Laboratory Manager

# 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. : 0306223-002A

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 17058-002

Collected 6/6/2003 1:15:00 PM  
Received 6/6/2003 3:37:00 PM  
Collected By : CLIENT  
Copy : Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Fecal Coliform	< 2	MPN	M9221 C	6/6/2003 4:30:00 PM

outfall 001  
Sampled 6-6-03  
Grab Sample

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

Date Reported : 6/17/2003

*Joann M. Slavin*

Laboratory Manager

IE  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
17107-001LL

Lab Name: H2M LABS, INC. Contract: \_\_\_\_\_  
 Lab Code: 10478 Case No.: BNLS SAS No.: \_\_\_\_\_ SDG No.: BNLS758  
 Matrix: (soil/water) WATER Lab Sample ID: 0307509-001A  
 Sample wt/vol: 500 (g/mL) ML Lab File ID: A01498.RAW  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N Date Received: 06/27/03  
 Extraction: (Type) SEPF Date Extracted: 07/16/03  
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/16/03  
 Injection Volume: 0.5 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:  
(µg/L or µg/Kg) UG/L

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	0.40	U
11104-28-2	Aroclor 1221	0.40	U
11141-16-5	Aroclor 1232	0.40	U
53469-21-9	Aroclor 1242	0.40	U
12672-29-6	Aroclor 1248	0.40	U
11097-69-1	Aroclor 1254	0.40	U
11096-82-5	Aroclor 1260	0.065	U

*Outfall 001  
Sampled 6-27-03  
24 Hr. Composite  
Composite*

IE  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

17107-001

Lab Name: H2M LABS, INC. Contract: \_\_\_\_\_

Lab Code: 10478 Case No.: BNLS SAS No.: \_\_\_\_\_ SDG No.: BNLS758

Matrix: (soil/water) WATER Lab Sample ID: 0307509-001A

Sample wt/vol: 500 (g/mL) ML Lab File ID: A01496.RAW

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N Date Received: 06/27/03

Extraction: (Type) SEPF Date Extracted: 07/16/03

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/16/03

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Sulfur Cleanup: (Y/N) N

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.15	P
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
57-74-9	Chlordane	1.0	U
8001-35-2	Toxaphene	5.0	U

Outfall 001  
Sampled 6-27-03  
24 Hr. Composite

# 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. : 0306047-001

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 17036-001

Collected 6/2/2003 12:22:00 PM  
Received 6/2/2003 3:27:00 PM  
Collected By CLIENT  
Copies To Original  
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	8	mg/L	E405.1	6/4/2003 2:02:00 PM
Nitrogen, Total	3.4	mg/L	M4500-N C	6/13/2003
Nitrogen, Ammonia (As N)	< 0.10	mg/L	E350.1	6/10/2003 3:24:18 PM
Nitrite as N	0.05	mg/L	E353.2	6/3/2003 5:30:44 PM
Nitrate as N	3.09	mg/L	E353.2	6/12/2003 2:00:35 PM
Nitrogen, Kjeldahl, Total	0.33	mg/L	E351.2	6/11/2003 2:13:23 PM

*Outfall 001  
Sampled 6-2-03  
24 Hr. Composite*

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

Date Reported : 6/17/2003

*Joann M. Slavin*

Laboratory Manager

# 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. : **0306047-004**

Sample Information...

Type : Aqueous

Origin:

Client ID. : 17036-004

Collected 6/2/2003  
Received 6/2/2003 3:27:00 PM  
Collected By CLIENT  
Copies To Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	6	mg/L	E405.1	6/4/2003 8:05:00 AM

outfall 001  
Sampled 6-2-03  
24 Hr. Composite  
Duplicate

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

Date Reported : 6/17/2003

*Joann M. Slavin*

Laboratory Manager



# 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. : 0306127-001

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 17045-001

Collected 6/4/2003 10:15:00 AM  
Received 6/4/2003 3:35:00 PM  
Collected By CLIENT  
Copies To Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	9	mg/L	E405.1	6/5/2003 2:14:00 PM
Nitrogen, Total	3.6	mg/L	M4500-N C	6/13/2003
Nitrogen, Ammonia (As N)	< 0.10	mg/L	E350.1	6/10/2003 3:26:55 PM
Nitrite as N	0.01	mg/L	E353.2	6/6/2003 8:25:59 AM
Nitrate as N	3.44	mg/L	E353.2	6/12/2003 2:02:36 PM
Nitrogen, Kjeldahl, Total	0.16	mg/L	E351.2	6/11/2003 2:15:23 PM

Outfall 001  
Sampled 6-4-03  
GMA  
6/20/03 24 Hr. Composite

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

Date Reported : 6/17/2003

*Joann M. Slavin*

Laboratory Manager

# 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. : 0306223-001

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 17058-001

Collected 6/6/2003 11:00:00 AM  
Received 6/6/2003 3:37:00 PM  
Collected By CLIENT  
Copies To Original  
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	3	mg/L	E405.1	6/7/2003 11:09:00 AM
Nitrogen, Total	3.8	mg/L	M4500-N C	6/13/2003
Nitrogen, Ammonia (As N)	< 0.10	mg/L	E350.1	6/10/2003 3:27:43 PM
Nitrite as N	0.02	mg/L	E353.2	6/7/2003 11:57:20 AM
Nitrate as N	3.66	mg/L	E353.2	6/12/2003 2:03:17 PM
Nitrogen, Kjeldahl, Total	0.18	mg/L	E351.2	6/11/2003 2:16:03 PM

Outfall 001  
Sampled 6-6-03  
24 Hr. Composite

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

Date Reported : 6/17/2003

*Joann M. Slavin*

Laboratory Manager

**H2M LABS, INC.**575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040, FAX: (631) 421-8435 NYSDOH ID# 10478LABORATORY RESULTSBrookhaven National Lab.-BNLS  
70 Bell Ave.  
Upton, NY 11973  
Attn To : S. ScarfittaLab No. : **0306699-001A**

Sample Information...

Type : Aqueous

Origin:

Client ID. : 17095-001

Collected 6/23/03 7:30:00 AM

Report re-issued 7/14/03

Received 6/23/03 3:30:00 PM

Collected By : CLIENT

Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	8	mg/L	E405.1	6/25/03 1:02:00 PM

Outfall 001  
Sampled 6-23-03  
24 Hr. Composite

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

Date Reported : 7/8/03

Page 1 of 1

*Joann M. Slavin*  
Laboratory Manager

# H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747  
(531) 694-3040. FAX: (531) 420-8436 NYSDOH ID# 10478

## LABORATORY RESULTS

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

Lab No. : 0306802-001

Sample Information...  
Type : Aqueous  
Origin:

Client ID. : 17099-001

Collected 6/25/2003 9:14:00 AM  
Received 6/25/2003 3:15:00 PM  
Collected By CLIENT  
Copies To Original  
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 5	mg/L	E405.1	6/26/2003 8:13:00 AM

Outfall 001  
Sampled 6-25-03  
24 Hr. Composite

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

Date Reported : 7/8/2003

*Joann M. Slavin*

Laboratory Manager

# H2M LABS, INC.

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

## LABORATORY RESULTS

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

Lab No. : 0306883-001

Sample Information...

Type : Aqueous

Origin:

Client ID. : 17107-001

Collected 6/27/2003 11:02:00 AM  
Received 6/27/2003 3:20:00 PM  
Collected By CLIENT  
Copies To Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	< 2	mg/L	E405.1	6/28/2003 8:02:00 AM

outfall 001  
Sampled 6-27-03  
24 hr. composite

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

Date Reported : 7/8/2003

*Joann M. Slavin*

Laboratory Manager

# 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. : 0306047-003

Sample Information...  
Type: Aqueous

Origin:

Client ID. : 17036-003

Collected 6/2/2003 12:42:00 PM  
Received 6/2/2003 3:27:00 PM  
Collected By CLIENT  
Copies To Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	< 20	mg/L	E405.1	6/4/2003 2:04:00 PM

STP Influent  
Sampled 6-2-03  
24 Hr. composite

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

Date Reported : 6/17/2003

*Joann M. Slavin*

Laboratory Manager

# 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. : 0306127-003A

Sample Information...

Type : Aqueous

Origin:

Client ID. : 17045-003

Collected 6/4/2003 11:00:00 AM

Received 6/4/2003 3:35:00 PM

Collected By : CLIENT

Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	38	mg/L	E405.1	6/5/2003 2:15:00 PM

STP Influent  
Sampled 6-4-03  
24 Hr. Composite

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

Date Reported : 6/17/2003

Page 4 of 4

*Joann M. Slavin*

Laboratory Manager

BNLS750 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. : 0306223-003A

Sample Information...  
Type : Aqueous  
  
Origin:

Client ID. : 17058-003

Collected 6/6/2003 11:40:00 AM  
Received 6/6/2003 3:37:00 PM  
Collected By : CLIENT  
Copy : Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	24	mg/L	E405.1	6/7/2003 11:10:00 AM

STP Influent  
Sampled 6-6-03  
24 Hr. Composite

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

Date Reported : 6/17/2003

*Joann M. Slavin*

Laboratory Manager

BNLS750 S36

# 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. : 0306699-002

Sample Information...

Type : Aqueous

Origin:

Client ID. : 17095-002

Collected 6/23/2003 7:55:00 AM  
Received 6/23/2003 3:30:00 PM  
Collected By CLIENT  
Copies To Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	16	mg/L	E405.1	6/25/2003 1:04:00 PM

STP Influent  
Sampled 6-23-03  
24 Hr. Composite

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

Date Reported : 7/8/2003

*Joann M. Blavin*

Laboratory Manager

**H2M LABS, INC.**575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040, FAX: (631) 421-8436 NYSDOH ID# 10478**LABORATORY RESULTS**Brookhaven National Lab.-BNLS  
70 Bell Ave.  
Upton, NY 11973  
Attn To : S. ScarpittaLab No. : **0306802-002A**Sample Information...  
Type : Aqueous

Origin:

Client ID. : 17099-002

Collected 6/25/03 9:30:00 AM

Report re-issued 7/14/03

Received 6/25/03 3:15:00 PM

Collected By : CLIENT

Copy : Original

CC

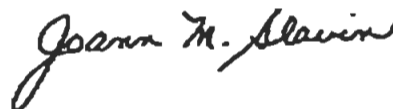
<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	< 5	mg/L	E405.1	6/26/03 8:14:00 AM

STP Influent  
Sampled 6-25-03  
24 Hr. Composite

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

Date Reported : 7/8/03

Page 1 of 1



Laboratory Manager

# 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. : 0306883-002

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 17107-002

Collected 6/27/2003 11:29:00 AM  
Received 6/27/2003 3:20:00 PM  
Collected By CLIENT  
Copies To Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	62	mg/L	E405.1	6/28/2003 8:03:00 AM

STP Influent  
Sampled 6-27-03  
24 Hr. Composite

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

Date Reported : 7/8/2003

*Joann M. Slavin*

Laboratory Manager

# 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: June 13, 2003

Contact: John Burke  
Project: SPDES

Page 1 of 1

Client Sample ID: 17037-003  
Sample ID: 81469003  
Matrix: Water  
Collect Date: 02-JUN-03 12:42  
Receive Date: 03-JUN-03 09:45  
Collector: Client

Project: BRKL00404  
Client ID: BRKL004  
COC: 17037  
Samp Recv.: 17037  
Client Desc.: STP Influent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Solids Analysis Federal</b>											
<i>EPA 160.2 Total Suspended Liq</i>											
Total Suspended Solids		25.6	0.764	5.00	mg/L	JXM	06/09/03	1343	256290	1	

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	

### Notes:

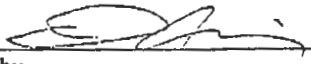
The Qualifiers in this report are defined as follows :

- < 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 

*17037-003  
Outfall 001 STP Influent  
Sampled 6-2-03  
24 Hr. Composite*

**Certificate of Analysis**

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

Contact: John Burke  
 Project: SPDES

Report Date: June 30, 2003

Page 1 of 1

Client Sample ID: 17059-003  
 Sample ID: 81849003  
 Matrix: Water  
 Collect Date: 06-JUN-03 11:40  
 Receive Date: 07-JUN-03 09:45  
 Collector: Client

Project: BRKL00404  
 Client ID: BRKL004  
 COC: 17059  
 Samp Recv.: 17059  
 Client Desc.: STP Influent

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Solids Analysis Federal</b>										
<i>EPA 160.2 Total Suspended Liq</i>										
Total Suspended Solids		58.4	2.01	13.2	mg/L		JXM 06/13/03	1329	257442	1

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	EPA 160.2	

**Notes:**

The Qualifiers in this report are defined as follows :

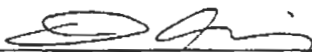
- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration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

*STP Influent  
 Sampled 6-6-03  
 24 Hr. Composite*

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 

**ATTACHMENT III**

**BROOKHAVEN NATIONAL LABORATORY**

**SPDES PERMIT NO. NY0005835**

**DISCHARGE MONITORING REPORT FOR JUNE 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.

16301-005

Lab Name: H2M LABS, INC.

Contract: \_\_\_\_\_

Lab Code: 10478

Case No.: BNLS

SAS No.: \_\_\_\_\_

SDG No.: BNLS736

Matrix: (soil/water) WATER

Lab Sample ID: 0304125-005B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C23089.D

Level: (low/med) LOW

Date Received: 04/03/03

% Moisture: Decanted: (Y/N) N

Date Extracted: 04/08/03

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 05/02/03

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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

*cutfall 001A  
Sampled 4-3-03  
Grab Sample*

BNLS736 S42

1D  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

16301-005

Lab Name: H2M LABS, INC.

Contract: \_\_\_\_\_

Lab Code: 10478

Case No.: BNLS

SAS No.: \_\_\_\_\_

SDG No.: BNLS736

Matrix: (soil/water) WATER

Lab Sample ID: 0304125-005B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C23089.D

Level: (low/med) LOW

Date Received: 04/03/03

% Moisture: Decanted: (Y/N) N

Date Extracted: 04/08/03

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 05/02/03

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	10		U
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	5		J
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 4-3-03  
Grab Sample*

## VOLATILE ORGANICS ANALYSIS DATA SHEET

16301-001

Lab Name: H2M LABS, INC.

Contract: \_\_\_\_\_

Lab Code: 10478Case No.: BNLS

SAS No.: \_\_\_\_\_

SDG No.: BNLS736Matrix: (soil/water) WATERLab Sample ID: 0304125-001ASample wt/vol: 5 (g/mL) MLLab File ID: 03\W1559.DLevel: (low/med) LOWDate Received: 04/03/03

% Moisture: not dec.

Date Analyzed: 04/15/03GC Column: R-502.2 ID: 153 (mm)Dilution Factor: 1.00Soil Extract Volume: \_\_\_\_\_ ( $\mu$ L)Soil Aliquot Volume \_\_\_\_\_ ( $\mu$ L)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	( $\mu$ g/L or $\mu$ g/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
75-01-4	Vinyl chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		1	U
67-64-1	Acetone		8.0	
75-35-4	1,1-Dichloroethene		1	U
75-09-2	Methylene chloride		2.9	B
75-15-0	Carbon disulfide		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
156-59-2	cis-1,2-Dichloroethene		1	U
108-05-4	Vinyl acetate		1	U
75-34-3	1,1-Dichloroethane		1	U
78-93-3	2-Butanone		5	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon tetrachloride		1	U
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		1	U
78-87-5	1,2-Dichloropropane		1	U
75-27-4	Bromodichloromethane		1	U
110-75-8	2-Chloroethylvinyl ether		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
100-41-4	Ethylbenzene		1	U
124-48-1	Dibromochloromethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-pentanone		5	U
591-78-6	2-Hexanone		5	U
108-88-3	Toluene		1	U

cutfall 001B  
 Sampled 4-2-03  
 Grab Sample

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

16301-001

Lab Name: H2M LABS, INC.

Contract: \_\_\_\_\_

Lab Code: 10478

Case No.: BNLS

SAS No.: \_\_\_\_\_

SDG No.: BNLS736

Matrix: (soil/water) WATER

Lab Sample ID: 0304125-001A

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 03\W1559.D

Level: (low/med) LOW

Date Received: 04/03/03

% Moisture: not dec.

Date Analyzed: 04/15/03

GC Column: R-502.2 ID: .53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (µL)

Soil Aliquot Volume \_\_\_\_\_ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
127-18-4	Tetrachloroethene		1	U
108-90-7	Chlorobenzene		1	U
1330-20-7	Xylene (total)		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

Outfall 001B  
Sampled 4-2-03  
Grab Sample

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

16301-001

Lab Name: H2M LABS, INC.

Contract: \_\_\_\_\_

Lab Code: 10478

Case No.: BNLS

SAS No.: \_\_\_\_\_

SDG No.: BNLS736

Matrix: (soil/water) WATER

Lab Sample ID: 0304125-001B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C23088.D

Level: (low/med) LOW

Date Received: 04/03/03

% Moisture: Decanted: (Y/N) N

Date Extracted: 04/08/03

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 05/02/03

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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 001B  
Sampled 4-2-03  
Grab Sample

FORM I SV- 1

OLM04.2

BNLS736 S31

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

16301-001

Lab Name: H2M LABS, INC.

Contract: \_\_\_\_\_

Lab Code: 10478Case No.: BNLS

SAS No.: \_\_\_\_\_

SDG No.: BNLS736Matrix: (soil/water) WATERLab Sample ID: 0304125-001BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C23088.DLevel: (low/med) LOWDate Received: 04/03/03% Moisture: Decanted: (Y/N) NDate Extracted: 04/08/03Concentrated Extract Volume: 1000 (µL)Date Analyzed: 05/02/03Injection Volume: 2 (µL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_Extraction: (Type) SEPF

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	10		U
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	10		U
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 001B  
 Sampled 4-2-03  
 Grab Sample

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

16301-001

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: BNLS736

Matrix (soil/water): WATER

Lab Sample ID: 0304125-001

Level (low/med): LOW

Date Received: 4/3/2003

% 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	55.6	B		P
7440-36-0	Antimony	3.5	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	1.4	U		P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	250	B		P
7440-47-3	Chromium	5.2	B		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	208			P
7439-89-6	Iron	305			P
7439-92-1	Lead	1.6	B		P
7439-95-4	Magnesium	68.7	B		P
7439-96-5	Manganese	5.2	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.3	B		P
7440-09-7	Potassium	69	U		P
7782-49-2	Selenium	3.8	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	2640	B		P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	1.8	U		P
7440-66-6	Zinc	12.0	B		P

*Outfall 001B  
Sampled 4-2-03  
Grab Sample*

Color Before: COLORLESS Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

Date Reported: 4/24/03

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

16301-002

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: BNLS736

Matrix (soil/water): WATER

Lab Sample ID: 0304125-002

Level (low/med): LOW

Date Received: 4/3/2003

% 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	40.3	B		P
7440-36-0	Antimony	3.5	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	19.2	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	8810			P
7440-47-3	Chromium	11.1			P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	55.2			P
57-12-5	Cyanide	10	U		CA
7439-89-6	Iron	97.0	B		P
7439-92-1	Lead	11.0			P
7439-95-4	Magnesium	2780	B		P
7439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	1050	B		P
7782-49-2	Selenium	3.8	U		P
7440-22-4	Silver	2.7	B		P
7440-23-5	Sodium	15500			P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	1.8	U		P
7440-66-6	Zinc	172			P

*Outfall 001D  
Sampled 4-2-03  
Grab Sample  
Rm. 1-93B*

Color Before: COLORLESS Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

Date Reported: 4/24/03

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# 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. : 0304125-002

Sample Information...

Type : Aqueous

Origin:

Client ID. : 16301-002

Collected 4/2/2003 10:20:00 AM  
Received 4/3/2003 3:05:00 PM  
Collected By CLIENT  
Copies To Bob Lee  
CC

Parameter(s)	Results	Units	Method Number	Analyzed
Nitrogen, Total	1.6	mg/L	M4500-N C	4/22/2003
Nitrogen, Nitrate-Nitrite	0.21	mg/L	E353.2	4/22/2003 12:10:23 PM
Nitrogen, Ammonia (As N)	1.18	mg/L	E350.1	4/14/2003 3:37:19 PM
Phenolics, Total Recoverable	< 5.0	µg/L	E420.1	4/14/2003 1:40:00 PM
Nitrogen, Kjeldahl, Total	1.43	mg/L	E351.2	4/12/2003 4:38:06 PM

Outfall 001D  
Sampled 4-2-03  
Grab Sample  
Rm. 1-93B

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

Date Reported : 5/6/2003

*Joann M. Slavin*

Laboratory Manager

# 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

Contact: John Burke  
Project: SPDES

Report Date: July 1, 2003

Page 1 of 1

Client Sample ID: 17040-003  
Sample ID: 81673003  
Matrix: Water  
Collect Date: 03-JUN-03 15:19  
Receive Date: 05-JUN-03 09:20  
Collector: Client

Project: BRKL00404  
Client ID: BRKL004  
COC: 17040  
Samp Recv.: 17040  
Client Desc.: H-N

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	1.51	0.581	5.00	mg/L		RDH1 06/27/03	0807	260116	1
Total Petroleum Hydrocarbons	J	1.18	0.511	4.30	mg/L		RDH1 06/30/03	0810	260117	2

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

### 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.

*Outfall 002  
Sampled 6-3-03  
Grab Sample*

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

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

16313-003

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: BNLS737

Matrix (soil/water): WATER

Lab Sample ID: 0304129-003

Level (low/med): LOW

Date Received: 4/3/2003

% 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	128	B		P
7440-36-0	Antimony	3.5	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	21.2	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	7320			P
7440-47-3	Chromium	3.0	B		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	68.9			P
7439-89-6	Iron	143			P
7439-92-1	Lead	1.8	B		P
7439-95-4	Magnesium	3170	B		P
7439-96-5	Manganese	5.6	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.1	B		P
7440-09-7	Potassium	2060	B		P
7782-49-2	Selenium	3.8	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	43800			P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	1.8	U		P
7440-66-6	Zinc	30.3			P

*Cutfall CO2  
Sampled 4-2-03  
Grab Sample  
Total Metals*

Color Before: COLORLESS Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

DATE REPORTED 4/24/03

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## VOLATILE ORGANICS ANALYSIS DATA SHEET

16313-003

Lab Name: H2M LABS, INC.

Contract: \_\_\_\_\_

Lab Code: 10478Case No.: BNLS

SAS No.: \_\_\_\_\_

SDG No.: BNLS737Matrix: (soil/water) WATERLab Sample ID: 0304129-003CSample wt/vol: 5 (g/mL) MLLab File ID: 03\W1561.DLevel: (low/med) LOWDate Received: 04/03/03

% Moisture: not dec.

Date Analyzed: 04/15/03GC Column: R-502.2 ID: .53 (mm)Dilution Factor: 1.00Soil Extract Volume: \_\_\_\_\_ ( $\mu$ L)Soil Aliquot Volume \_\_\_\_\_ ( $\mu$ L)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	( $\mu$ g/L or $\mu$ g/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
75-01-4	Vinyl chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		1	U
67-64-1	Acetone		2	J
75-35-4	1,1-Dichloroethene		1	U
75-09-2	Methylene chloride		2.3	B
75-15-0	Carbon disulfide		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
156-59-2	cis-1,2-Dichloroethene		1	U
108-05-4	Vinyl acetate		1	U
75-34-3	1,1-Dichloroethane		1	U
78-93-3	2-Butanone		5	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon tetrachloride		1	U
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		1	U
78-87-5	1,2-Dichloropropane		1	U
75-27-4	Bromodichloromethane		1	U
110-75-8	2-Chloroethylvinyl ether		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
100-41-4	Ethylbenzene		1	U
124-48-1	Dibromochloromethane		1.2	
75-25-2	Bromoform		8.4	
108-10-1	4-Methyl-2-pentanone		5	U
591-78-6	2-Hexanone		5	U
108-88-3	Toluene		1	U

outfall 002  
 Sampled 4-2-03  
 Grab Sample

## VOLATILE ORGANICS ANALYSIS DATA SHEET

16313-003

Lab Name: H2M LABS, INC.

Contract: \_\_\_\_\_

Lab Code: 10478Case No.: BNLS

SAS No.: \_\_\_\_\_

SDG No.: BNLS737Matrix: (soil/water) WATERLab Sample ID: 0304129-003CSample wt/vol: 5 (g/mL) MLLab File ID: 03\W1561.DLevel: (low/med) LOWDate Received: 04/03/03

% Moisture: not dec.

Date Analyzed: 04/15/03GC Column: R-502.2 ID: .53 (mm)Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (μL)

Soil Aliquot Volume \_\_\_\_\_ (μL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg)	UG/L	Q
127-18-4	Tetrachloroethene		1	U
108-90-7	Chlorobenzene		1	U
1330-20-7	Xylene (total)		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

Cutoff 002  
 Sampled 4-2-03  
 Grab Sample

# CHEMTX

Environmental & Industrial Hygiene Services

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

3082 25<sup>th</sup> Street, Port Arthur, TX 77642  
 (409) 983-1575 Fax (409) 982-1522

Report Date: 05/01/03

Attn:

## RESULTS OF ANALYSIS

PROJECT: EMMSD

ATTACHMENT I

Outfall 002  
 Sampled 4-2-03  
 Grab Sample

DOC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes	Lab_QCnotes	Rev_qual	Rev_conc	Rev_QCnotes
Cas_num	Name	Concn	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_date	Dilution	Lab_qual	Lab_QCnotes	Rev_qual	Rev_conc	Rev_QCnotes
16312	HN	W	HN	04/02/03	1:55	04/04/03		P3040114	0						
	H E D P as Organic Phosphorus	< 0.05		0.05	mg/l	04/05/03	EPA 365.3	P3040117							
	Inorganic Phosphorus	0.282		0.05	mg/l	04/05/03	EPA 365.3								
	Total Phosphorus	0.315		0.05	mg/l	04/05/03	EPA 365.3								
	Toltriazole(TTA)	< 0.005		0.005	mg/l	04/14/03	SOP # O121-049								

Required field under some circumstances (see Att. 2)

Organic, Metal, Wet Chemical, Biological and Petro  
 Chemical Analysis for Multi-Media Environmental  
 And Industrial Hygiene Services

Facilities are also available at:  
 5344 Leopold Street, Corpus Christi, TX 78408  
 138 Cities Services Hwy., Sulphur, LA 70663

(361) 299-9900 FAX (361) 299-1155  
 (337) 626-2121 FAX (337) 626-0405

# GENERAL ENGINEERING LABORATORIES, LLC

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

## Certificate of Analysis

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

Contact: John Burke  
Project: SPDES

Report Date: July 1, 2003

Page 1 of 1

Client Sample ID: 17052-003  
Sample ID: 81671003  
Matrix: Water  
Collect Date: 04-JUN-03 10:40  
Receive Date: 05-JUN-03 09:20  
Collector: Client

Project: BRKL00404  
Client ID: BRKL004  
COC: 17052  
Samp Recv.: 17052  
Client Desc.: 1004/1002

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>											
<i>EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil &amp; Grease and TPH)</i>											
Oil and Grease	J	1.52	0.587	5.00	mg/L		RDH1	06/27/03	0807	260116	1
Total Petroleum Hydrocarbons	J	1.30	0.516	4.35	mg/L		RDH1	06/30/03	0810	260117	2

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

*Outfall 002B  
Sampled 6-4-03  
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 

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

Report Date: 05/01/03

RESULTS OF ANALYSIS

PROJECT: EWMSD

ATTACHMENT I

Outfall 002B  
 Sampled 4-3-03  
 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			
16312	Bldg 1004/1002	W	Bldg 1004/1002	04/02/03	1430	04/04/03		P3040114	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
	HEDP as Organic Phosphorus	<0.05/ <0.05*		0.05	mg/l	04/05/03	EPA 365.3	P3040120						
	Inorganic Phosphorus	0.152/ 0.147*		0.05	mg/l	04/05/03	EPA 365.3							
	Total Phosphorus	0.160/ 0.151*		0.05	mg/l	04/05/03	EPA 365.3							
	Tolyltriazole(TTA)	<0.005		0.005	mg/l	04/14/03	SOP # O121-049							
	* Duplicate Analysis													

Required fields are shaded  
 Organic, Metals, and Chemical, Biological and Petro  
 Chemical Hygiene for Multiple Media Environmental (see Att. 2)  
 And Industrial Hygiene Services

Facilities are also available at:  
 5544 Leopard Street, Corpus Christi, TX 78408  
 138 Cities Service Hwy., Sulphur, LA 70663

(361) 299-9900 FAX (361) 299-1155  
 (337) 626-2121 FAX (337) 626-0405



# 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

Contact: John Burke  
 Project: SPDES

Report Date: July 1, 2003

Page 1 of 1

Client Sample ID: 17040-004  
 Sample ID: 81673004  
 Matrix: Water  
 Collect Date: 03-JUN-03 15:43  
 Receive Date: 05-JUN-03 09:20  
 Collector: Client

Project: BRKL00404  
 Client ID: BRKL004  
 COC: 17040  
 Samp Recv.: 17040  
 Client Desc.: H-S

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>										
<i>EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil &amp; Grease and TPH)</i>										
Oil and Grease	J	1.18	0.581	5.00	mg/L		RDH1 06/27/03	0807	260116	1
Total Petroleum Hydrocarbons	J	1.08	0.511	4.30	mg/L		RDH1 06/30/03	0810	260117	2

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

*outfall 005  
 Sampled 6-3-03  
 Grab Sample*

**Notes:**

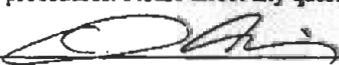
The Qualifiers in this report are defined as follows :

- < 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 

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

16313-005

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478 Case No.

SAS No.:

SDG No.: BNLS737

Matrix (soil/water): WATER

Lab Sample ID: 0304129-005

Level (low/med): LOW

Date Received: 4/3/2003

% 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	50.7	B		P
7440-36-0	Antimony	3.5	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	27.3	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	13600			P
7440-47-3	Chromium	0.70	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	43.1	B		P
7439-92-1	Lead	0.80	U		P
7439-95-4	Magnesium	3840	B		P
7439-96-5	Manganese	2.6	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	1600	B		P
7782-49-2	Selenium	3.8	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	27400			P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	1.8	U		P
7440-66-6	Zinc	13.5	B		P

*Outfall 005  
Sampled 4-2-03  
Grab Sample  
Total Metals*

Color Before: COLORLESS Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

DATE REPORTED 4/24/03

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# CHEMTEx

Environmental & Industrial Hygiene Services

3082 25<sup>th</sup> Street, Port Arthur, TX 77642  
 (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: 05/01/03

RESULTS OF ANALYSIS

PROJECT: EMMSD

ATTACHMENT I

*cutfare acf  
 Sampled 4-2-03  
 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	Lab_qual	Rev_qual	Rev_conc	Rev_QCnotes
16312	HS	W	HS	04/02/03	1335	04/04/03		P3040114	0						
	<b>Name</b>	<b>Concen</b>	<b>Error</b>	<b>Det_limit</b>	<b>Units</b>	<b>Anal_date</b>	<b>Method</b>	<b>Lab_batch-ID</b>	<b>Ext_date</b>	<b>Dilution</b>	<b>Lab_qual</b>	<b>Lab_qual</b>	<b>Rev_qual</b>	<b>Rev_conc</b>	<b>Rev_QCnotes</b>
	HEDP as Organic Phosphorus	< 0.05		0.05	mg/l	04/05/03	EPA 365.3	P3040114							
	Inorganic Phosphorus	< 0.05		0.05	mg/l	04/05/03	EPA 365.3								
	Total Phosphorus	< 0.05		0.05	mg/l	04/05/03	EPA 365.3								
	Polytriazole(TTA)	< 0.005		0.005	mg/l	04/14/03	SOP # 0121-049								

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

Organic, Metal, Wet Chemical, Biological and Petro  
 Chemical Analysis for Multi-Media Environmental  
 And Industrial Hygiene Services

Facilities are also available at:  
 5541 Looper Street, Corpus Christi, TX 78408  
 138 Cities Service Hwy., Sulphur, LA 70663

(361) 299-9900 FAX (361) 299-1155  
 (337) 626-2121 FAX (337) 626-0405

# 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

Contact: John Burke  
 Project: SPDES

Report Date: July 1, 2003

Page 1 of 1

Client Sample ID: 17040-001	Project: BRKL00404
Sample ID: 81673001	Client ID: BRKL004
Matrix: Water	COC: 17040
Collect Date: 03-JUN-03 15:35	Sampl Recv.: 17040
Receive Date: 05-JUN-03 09:20	Client Desc.: HT-W
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>										
<i>EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil &amp; Grease and TPH)</i>										
Oil and Grease	J	1.26	0.568	5.00	mg/L		RDH1 06/27/03	0807	260116	1
Total Petroleum Hydrocarbons	J	1.16	0.500	4.21	mg/L		RDH1 06/30/03	0810	260117	2

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

Outfall 006A  
 Sampled 6-3-03  
 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.

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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 \_\_\_\_\_

# CHEMTX

Environmental & Industrial Hygiene Services

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

3082 25<sup>th</sup> Street, Port Arthur, TX 77642  
 (409) 983-4575 Fax (409) 982-1522

Report Date: 05/01/03

RESULTS OF ANALYSIS

PROJECT: EWMSD

ATTACHMENT I

Outfall 000A  
 Sampled 4-2-03  
 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	Lab_qual	Rev_qual	Rev_conc	Rev_QCnotes
16312	HT-W	W	HT-W	04/02/03	1513	04/04/03		P3040114	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
	HEDP as Organic Phosphorus	< 0.05		0.05	mg/l	04/05/03	EPA 365.3	P3040115							
	Inorganic Phosphorus	< 0.05		0.05	mg/l	04/05/03	EPA 365.3								
	Total Phosphorus	< 0.05		0.05	mg/l	04/05/03	EPA 365.3								
	Polytriazole(TTA)	< 0.005		0.005	mg/l	04/14/03	SOP # O121-049								

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

Organic, Metal, Wet Chemical, Biological and Petro  
 Chemical Analysis for Multi-Media Environmental  
 And Industrial Hygiene Services

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 5544 Leopold Street, Corpus Christi, TX 78408  
 138 Citics Service Hwy., Sulphur, LA 70663

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 (337) 626-2121 FAX (337) 626-0405

# 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 1, 2003

Contact: John Burke  
 Project: SPDES

Page 1 of 1

Client Sample ID: 17040-002  
 Sample ID: 81673002  
 Matrix: Water  
 Collect Date: 03-JUN-03 15:27  
 Receive Date: 05-JUN-03 09:20  
 Collector: Client

Project: BRKL00404  
 Client ID: BRKL004  
 COC: 17040  
 Samp Recv.: 17040  
 Client Desc.: HT-E

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>										
<i>EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil &amp; Grease and TPH)</i>										
Oil and Grease	J	1.05	0.568	5.00	mg/L		RDH1 06/27/03	0807	260116	1
Total Petroleum Hydrocarbons	J	0.947	0.500	4.21	mg/L		RDH1 06/30/03	0810	260117	2

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

Outfall 006B  
 Sampled 6-3-03  
 Grab Sample

**Notes:**

The Qualifiers in this report are defined as follows :

- < Result is less than amount reported.
- > Result is greater than amount reported.
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- 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 



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:

23060407-01

Matrix: (soil/water)      water  
 Sample wt/vol:            25.0 (g/mL)       mL  
 Level: (low/med)         low

Date Analyzed: 6/17/2003  
 Lab File ID: 30617B06.D  
 Dilution Factor:         1

Dilution information:    N/A

CAS No.	Compound	Concentration Units:		
		(ug/L or ug/Kg)	<u>ug/L</u>	
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 00184 7-14-03  
 Sampled 6-4-03  
 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

Contact: John Burke  
Project: SPDES

Report Date: July 1, 2003

Page 1 of 1

Client Sample ID: 17052-001  
Sample ID: 81671001  
Matrix: Water  
Collect Date: 04-JUN-03 10:53  
Receive Date: 05-JUN-03 09:20  
Collector: Client

Project: BRKL00404  
Client ID: BRKL004  
COC: 17052  
Samp Recv.: 17052  
Client Desc.: HW

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>											
<i>EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil &amp; Grease and TPH)</i>											
Oil and Grease	J	1.81	0.574	5.00	mg/L		RDH1	06/27/03	0807	260116	1
Total Petroleum Hydrocarbons	J	1.17	0.505	4.26	mg/L		RDH1	06/30/03	0810	260117	2

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

*Outfall 008  
Sampled 6-4-03  
Grab Sample*

### Notes:

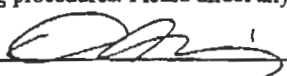
The Qualifiers in this report are defined as follows :

- < 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 

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

16328-001

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: BNLS740

Matrix (soil/water): WATER

Lab Sample ID: 0304302-001

Level (low/med): LOW

Date Received: 4/9/2003

% 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	1320			P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	11.2	B		P
7440-41-7	Beryllium	0.64	B		P
7440-43-9	Cadmium	0.71	B		P
7440-70-2	Calcium	6600			P
7440-47-3	Chromium	4.8	B		P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	10	B		P
7439-89-6	Iron	1770			P
7439-92-1	Lead	12.9			P
7439-95-4	Magnesium	2480	B		P
7439-96-5	Manganese	26.1			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium	461	B	E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	18500			P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	6.8	B		P
7440-66-6	Zinc	39.8			P

*Outfall 008  
Sampled 4-8-03  
Grab Sample  
Total metals*

Color Before: BROWN Clarity Before: CLEAR  
Color After: COLORLESS Clarity After: CLEAR

Texture: \_\_\_\_\_  
Artifacts: \_\_\_\_\_

Comments:

Date Reported: 5/1/03

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# 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 1, 2003

Contact: John Burke  
 Project: SPDES

Page 1 of 1

Client Sample ID: 17052-002  
 Sample ID: 81671002  
 Matrix: Water  
 Collect Date: 04-JUN-03 10:26  
 Receive Date: 05-JUN-03 09:20  
 Collector: Client

Project: BRKLO0404  
 Client ID: BRKLO04  
 COC: 17052  
 Samp Recv.: 17052  
 Client Desc.: CSF

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>											
<i>EPA 1664 n-Hexane/Silica Gel Treated HEM(Oil &amp; Grease and TPH)</i>											
Oil and Grease	J	1.10	0.593	5.00	mg/L		RDH1	06/27/03	0807	260116	1
Total Petroleum Hydrocarbons	J	1.10	0.522	4.40	mg/L		RDH1	06/30/03	0810	260117	2

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	EPA 1664	
2	EPA 1664	

*outfall 010  
 Sampled 6-4-03  
 Grab Sample*

**Notes:**

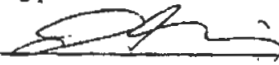
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- E Concentration of the target analyte exceeds the instrument calibration range.
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- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte 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

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

16328-003

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: BNLS740

Matrix (soil/water): WATER

Lab Sample ID: 0304302-003

Level (low/med): LOW

Date Received: 4/9/2003

% 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	3150			P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	27.0	B		P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.19	B		P
7440-70-2	Calcium	29200			P
7440-47-3	Chromium	3.8	B		P
7440-48-4	Cobalt	2.2	B		P
7440-50-8	Copper	14.9	B		P
7439-89-6	Iron	3600			P
7439-92-1	Lead	8.6			P
7439-95-4	Magnesium	4620	B		P
7439-96-5	Manganese	57.6			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	7.2	B		P
7440-09-7	Potassium	4380	B	E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	388000			P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	12.2	B		P
7440-66-6	Zinc	50.7			P

Outfall 010  
Grab Sample  
Sampled 4-8-03  
Total (Unfiltered)  
Metals

Color Before: BROWN Clarity Before: CLEAR  
Color After: COLORLESS Clarity After: CLEAR

Texture: \_\_\_\_\_  
Artifacts: \_\_\_\_\_

Comments:

Date Reported: 5/1/03

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

17007-001

Lab Name: H2M LABS, INC.

Contract:

Lab Code: 10478

Case No.

SAS No.:

SDG No.: BNLS749

Matrix (soil/water): WATER

Lab Sample ID: 0305673-001

Level (low/med): LOW

Date Received: 5/23/2003

% 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	1190			P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	13.8	B		P
7440-41-7	Beryllium	0.52	B		P
7440-43-9	Cadmium	0.65	B		P
7440-70-2	Calcium	11800			P
7440-47-3	Chromium	1.8	B		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	9.2	B		P
7439-89-6	Iron	1270			P
7439-92-1	Lead	7.6			P
7439-95-4	Magnesium	1170	B		P
7439-96-5	Manganese	23.9			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	9.7	B		P
7440-09-7	Potassium	593	B	E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	3800	B		P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	13.9	B		P
7440-66-6	Zinc	22.4		E	P

*Outfall 010  
Sampled 5-22-03  
Grab Sample  
Total metals.*

Color Before: YELLOW Clarity Before: CLEAR  
Color After: COLORLESS Clarity After: CLEAR

Texture: \_\_\_\_\_  
Artifacts: \_\_\_\_\_

Comments:

DATE REPORTED 6/3/03

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ATTACHMENT IV**  
**BROOKHAVEN NATIONAL LABORATORY**  
**SPDES PERMIT NO. NY0005835**  
**DISCHARGE MONITORING REPORT FOR JUNE 2003**  
**NON-COMPLIANCE REPORTS**

Appendix B

SECTION 1



New York State Department of Environmental Conservation
Division of Water



Report of Noncompliance Event

To: DEC Water Contact R. Sorrentino DEC Region:

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

SECTION 2

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

Date of noncompliance: 4 / 8 / 03 Location (Outfall, Treatment Unit, or Pump Station): 010

Description of noncompliance(s) and cause(s): The total aluminum concentration at outfall 010 was 3.15 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 0.14 mg/L. Therefore, the excursion is due to sediment entrained within the storm water system.

Has event ceased? (Yes) (No) If so, when? 5/22/03 Was event due to plant upset? (Yes) (No) SPDES limits violated? (Yes) (No)

Start date, time of event: 4 / 8 / 03, 10:50 (AM) (PM) End date, time of event: 5 / 22 / 03, 2:04 (AM) (PM)

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

Immediate corrective actions: None

Preventive (long term) corrective actions: The Laboratory will be cleaning upstream manholes to remove accumulated sediments as part of a plan to mitigate discharges of lead to this outfall. By removing these sediments future excursions should be minimized.

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





Appendix B

SECTION 1



New York State Department of Environmental Conservation
Division of Water



Report of Noncompliance Event

To: DEC Water Contact R. Sorrentino DEC Region:

Report Type: 5 Day [X] Permit Violation Order Violation Anticipated Noncompliance Bypass/Overflow Other

SECTION 2

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

Date of noncompliance: 6 / 2 / 03 Location (Outfall) Treatment Unit, or Pump Station): 001

Description of noncompliance(s) and cause(s): The percent removal for BOD-5 was calculated at >80 percent for the month of June. Broken down on a daily basis compliance was sporadic starting with a 30 percent removal on 6/2/03 increasing to >88 percent on 6/6/03. The percent removal decreased to 50 percent on 6/23 and finally increasing to >98 percent on 6/27/03. The effluent to outfall.

Has event ceased? (Yes) (No) If so, when? 6/27/03 Was event due to plant upset? (Yes) (No) SPDES limits violated? (Yes) (No)

Start date, time of event: 6 / 2 / 03, 12 : 22 (AM) (PM) End date, time of event: 6 / 27 / 03, 11 : 02 (AM) (PM)

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

Immediate corrective actions: None

Preventive (long term) corrective actions: There is great uncertainty in many of the BOD-5 results due to dilution problems at the analytical laboratories, incorrect descriptions on the chain-of-custody, low confidence in the proper mixing of samples before placing in the bottles for laboratory analysis and the dilute concentration of the STP influent. Laboratory sampling and chain-of-custody procedures will be reviewed.

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

001 met all permit requirements for BOD-5 concentration.