

**BROOKHAVEN**  
NATIONAL LABORATORY

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

October 23, 2007

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

Gentlemen:

**SUBJECT: State Pollutant Discharge Elimination System (SPDES) NY-0005835  
Brookhaven National Laboratory (BNL) Discharge Monitoring Report (DMR)  
for September 2007**

In accordance with our SPDES permit (NY-0005835), enclosed as Attachment I, please find the DMR for the month of September 2007. General Engineering Laboratories, LLC (ELAP Certification #11501) performs most of the analyses on SPDES samples, while H2M Labs, Inc. (NELAP Certification #10478) performs the BOD-5, Nitrogen series, and fecal coliform analyses and CHEMTEX Environmental Laboratory, Inc. (NELAP Certification #02077) performs specialty analyses for tolytriazole, hydroxyethylidene diphosphonic acid, and polypropylene glycol monobutyl ether. These laboratories are certified by the New York State Department of Health. Field measured parameters (pH, settleable solids, flow) are recorded and/or measured by BNL. Copies of the analytical reports will be retained in our files and will be made available upon request.

With the exception of one noncompliance event for total nitrogen at Outfall 001, review of the analytical data shows that all other parameters met their respective SPDES effluent limitations this reporting period. A sample collected on September 21, 2007 exhibited a total nitrogen concentration of 11.2 mg/L, which exceeded the permit limit of 10 mg/L. Please see Attachment II for the noncompliance report, which provides more detail on the issue.

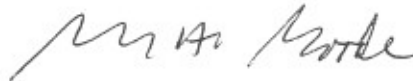
Collection and analysis of these samples are performed in accordance with the BNL Quality Assurance (QA) Program that specifies the standard operating procedures for collection and analysis of samples, QA data requirements, validation of contractor analytical data, and QA inspections performed periodically on contractor laboratories. All QA data, data validation reports, contractor laboratory assessment, and audit reports are available upon request. Based on this information, we believe the values reported on the DMR are representative of the effluent from BNL during the month of September 2007.



Registered to  
ISO 14001

If you should have any questions, please contact Jason Remien or Robert Lee of my staff at (631) 344-3477 and (631) 344-3148 respectively.

Sincerely,



George A. Goode  
Environmental & Waste Management Services  
Division Manager

- Attachment I: Discharge Monitoring Report for September 2007.
- Attachment II: Noncompliance Report for Total Nitrogen Excursion at Outfall 001
- Attachment III: Analytical Results from H2M Labs Inc. and General Engineering Laboratories, LLC for samples collected on 9/17/07, 9/19/07, and 9/21/07 from Outfall 001 (BNL Use Only).
- Attachment IV: Analytical Results from General Engineering Laboratories, LLC and CHEMTEX Environmental Laboratory, Inc. for samples collected from Outfalls 001A, 001B, 001F, 002, 002B, 005, 006A, 006B, 008, and 010 (BNL Use Only).

GAG/JR:djp

- cc: M. Bebon, w/o Attachments
- G. Goode, w/o Attachments
- M. Holland, w/o Attachments
- C. Kao, w/all Attachments
- E. Lessard, w/ all Attachments
- E. Murphy, w/ all Attachments
- J. Remien, w/ all Attachments
- R. Sorrentino, NYSDEC, w/ Attachment I
- W. Chaloupka, w/ all Attachments
- G. Granzen, w/ all Attachments
- C. Johnson, w/o Attachments
- R. Lee, w/ all Attachments
- D. Lowenstein, w/o Attachments
- V. Radeka, w/ all Attachments
- E. Governale, SCDHS, w/ Attachment I
- R. Backofen, w/o Attachments
- R. Izzo, w/ all Attachments

File: EC62ER.07

**Brookhaven National Laboratory**  
**SPDES Permit No. NY0005835**  
**Discharge Monitoring Report for September 2007**  
**Discharge Monitoring Report Notes:**

1. The reported concentration is estimated at less than the method detection limit but greater than the instrument detection limit.
2. Flow is estimated based upon an instantaneous flow measurement and the assumption that flow continued for the entire day (i.e., 1,440 minutes).
3. Two individual photographic processors had generated photographic rinse waters discharged from Building 197B. However, in late 2003 the photographic processors were shutdown resulting in no discharge from Outfall 001D for this time period.
4. PCBs were not detected above the detection limit for any congener.
5. There was no discharge from Outfall 001E during this reporting period.
6. The total nitrogen concentration did not meet the permit limits for the sample collected on September 21, 2007. Please see attachment II for the Non-Compliance Report.

**ATTACHMENT I**

**BROOKHAVEN NATIONAL LABORATORY**

**SPDES PERMIT NO. NY0005835**

**DISCHARGE MONITORING REPORT FOR SEPTEMBER 2007**

**FOR OUTFALLS NO. 001 – 010**



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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR

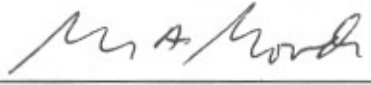
NY0005835	001A
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR  
 (SUBR 01)  
 ACID/CAUSTIC CLEANG RINSE 535B  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate	SAMPLE MEASUREMENT	1000	*****		*****	*****	*****		0	03/90	RC
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	gal/d	*****	*****	*****			Quarterly	RCORDR
pH	SAMPLE MEASUREMENT	*****	*****		6.7	*****	6.7		0	01/90	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division 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.		DATE		
			2007	10	23
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE 631-344-4549		

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.

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

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FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

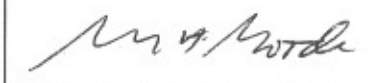
NY0005835	001B
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
RINSE FROM CENTRL DEGREASR 498  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate	SAMPLE MEASUREMENT	207	*****		*****	*****	*****		0	01/90	RC
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	gal/d	*****	*****				Quarterly	RCORDR
pH	SAMPLE MEASUREMENT	*****	*****		7.0	*****	7.0		0	01/90	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		Quarterly	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****		*****	*****	10.0		0	01/90	GR
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****		*****	*****	124		0	01/90	GR
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****		*****	*****	379		0	01/90	GR
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Managanese, total (as Mn)	SAMPLE MEASUREMENT	*****	*****		*****	*****	9.7		0	01/90	GR
01055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****		*****	*****	5.0		0	01/90	GR
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE		
			2007	10	23
			YEAR	MO	DAY
			TELEPHONE		
			631-344-4549		

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.

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

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NY0005835	001B
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
RINSE FROM CENTRL DEGREASR 498  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****		*****	*****	15.8		0	01/90	GR
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX ug/L			Quarterly	GRAB
Bis (2-ethylhexyl) phthalate SEE NOTE #1	SAMPLE MEASUREMENT	*****	*****		*****	*****	1.3		0	01/90	GR
39100 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX ug/L			Quarterly	GRAB
Di-n-butyl phthalate	SAMPLE MEASUREMENT	*****	*****		*****	*****	<10		0	01/90	GR
39110 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX ug/L			Quarterly	GRAB

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			2007	10	23
			YEAR	MO	DAY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
			631-344-4549		

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

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Page 3

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 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR

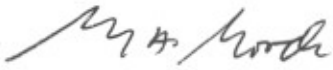
NY0005835	002B
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR  
 (SUBR 01)  
 RF(1004) & BRAHMS(1002) BLOWDN  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*****	*****		8.1	*****	8.1		0	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease	SAMPLE MEASUREMENT	*****	*****		*****	*****	4.6		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	*****		0.00004	*****	*****	*****		0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	Mgal/d	*****	*****	*****			Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <b>George A. Goode</b> Division Manager Environmental & Waste Management Services Division 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.		DATE		
			2007	10	23
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 631-344-4549		

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

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

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

Page 5

NY0005835	001D
PERMIT NUMBER	DISCHARGE NUMBER

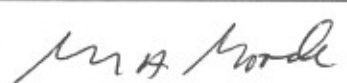
DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
PHOTOPROCESSNG RINSE FROM 197B  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge



PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate	SEE NOTE #3	SAMPLE MEASUREMENT	*****	*****		*****	*****	*****			
00056 1 0 Effluent Gross		PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	gal/d	*****	*****	*****		Quarterly	RCORDR
pH	SEE NOTE #3	SAMPLE MEASUREMENT	*****	*****		*****					
00400 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****	Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		Quarterly	GRAB
Nitrogen, total (as N)	SEE NOTE #3	SAMPLE MEASUREMENT	*****	*****	*****	*****					
00600 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		*****	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Cyanide, total (as CN)	SEE NOTE #3	SAMPLE MEASUREMENT	*****	*****	*****	*****					
00720 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Silver, total (as Ag)	SEE NOTE #3	SAMPLE MEASUREMENT	*****	*****	*****	*****					
01077 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Phenolics, total recoverable	SEE NOTE #3	SAMPLE MEASUREMENT	*****	*****	*****	*****					
32730 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB

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			2007	10	23
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE 631-344-4549		

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

NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL. SAMPLES TO BE COLLECTED FROM MANHOLE NEAREST THE BUILDING. SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

Page 5

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
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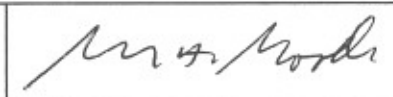
NY0005835	001E
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR (SUBR 01)  
 BOILER BLOWDN FROM 244,405,ETC  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate	SEE NOTE #5	*****	*****		*****	*****	*****		0		RC
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	gal/d	*****	*****	*****			Quarterly	RCORDR
pH	SEE NOTE #5	*****	*****		*****	*****	*****		0		GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division 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.		DATE		
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Comments and Explanation of any violations (Reference all attachments here)  
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME BROOKHAVEN NATIONAL LABORATORY  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

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NY0005835	001F
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
COOLING TOWER WTR & BLOWDN 902  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate	SAMPLE MEASUREMENT	2300	*****		*****	*****	*****		0	03/90	RC
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	gal/d	*****	*****	*****			Quarterly	RCORDR
pH	SAMPLE MEASUREMENT	*****	*****		8.5	*****	8.5		0	01/90	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		Quarterly	GRAB
Propylene glycol monobutyl ether	SAMPLE MEASUREMENT	*****	*****		*****	*****	<500		0	01/90	GR
49875 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  George A. Goode Division Manager Environmental & Waste Management Services Division 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.		DATE		
			2007	10	23
			YEAR	MO	DAY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE 631-344-4549		

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

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

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

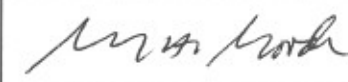
NY0005835	001M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
PROCESS SANIT & STORMWTR RNOFF  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****		*****	*****	77		0	01/01	GR
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	90 DAILY MX	deg F		Daily	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****		*****	< 2	< 2		0	03/30	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	10 DAILY AV	20 DAILY MX	mg/L		Once Per Month	COMP24
pH	SAMPLE MEASUREMENT	*****	*****		6.2	*****	6.8		0	01/01	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		5.8 MINIMUM	*****	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****		*****	<0.6	<0.6		0	03/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	10 DAILY AV	20 DAILY MX	mg/L		Once Per Month	COMP24
Solids, settleable	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.0		0	01/01	GR
00545 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.1 DAILY MX	mL/L		Daily	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	*****	*****		*****	*****	11		1	03/30	24
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	10 DAILY MX	mg/L		Once Per Month	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.2		0	03/30	24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	2 DAILY MX	mg/L		Once Per Month	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division 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 this 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.		DATE		
			2017	10	23
			YEAR	MO	DAY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE 631-344-4549		

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 BROOKHAVEN NATIONAL LABORATORY  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

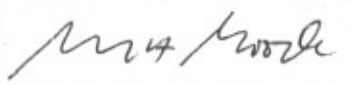
NY0005835	001M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
PROCESS SANIT & STORMWTR RNOFF  
External Outfall

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Phosphorus, total (as P) 00665 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	1.3		0	03/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX	mg/L		Once Per Month	COMP24
Cyanide, total (as CN) 00720 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	<1.5		0	03/30	GR
	PERMIT REQUIREMENT	*****	*****		*****	*****	100 DAILY MX	ug/L		Twice Per Month	GRAB
Copper, total (as Cu) (AS CU) 01042 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.06		0	03/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	0.15 DAILY MX	mg/L		Once Per Month	COMP24
Iron, total (as Fe) 01045 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.15		0	03/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	0.37 DAILY MX	mg/L		Once Per Month	COMP24
Lead, total (as Pb) 01051 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.0006		0	03/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	0.019 DAILY MX	mg/L		Once Per Month	COMP24
Nickel, total (as Ni) 01067 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.01		0	03/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	0.11 DAILY MX	mg/L		Once Per Month	COMP24
Silver, total (as Ag) 01077 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.003		0	03/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	0.015 DAILY MX	mg/L		Once Per Month	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE		
			2007	10	23
			YEAR	MO	DAY
			TELEPHONE		
			631-344-4549		

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.

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

Page 10

NY0005835	001M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
PROCESS SANIT & STORMWTR RNOFF  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.03		0	03/30	24
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.1 DAILY MX	mg/L		Once Per Month	COMP24
Toluene	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.4		0	03/30	GR
34010 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Twice Per Month	GRAB
Methylene chloride	SAMPLE MEASUREMENT	*****	*****		*****	*****	<2		0	03/30	GR
34423 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Twice Per Month	GRAB
1, 1, 1 - Trichloroethane	SAMPLE MEASUREMENT	*****	*****		*****	*****	<1		0	03/30	GR
34506 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Twice Per Month	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.36	0.49		*****	*****	*****		0	99/99	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	2.3 DAILY MX	Mgal/d	*****	*****	*****			Continuous	RCORDR
Mercury, total (as Hg)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.00004		0	03/30	24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.0008 DAILY MX	mg/L		Once Per Month	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	*****	*****		*****	*****	<2 <2		0	03/30	GR
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	200 DAILY AV	400 DAILY MX		Once Per 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.	DATE		
George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed		2007 10 23		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
		TELEPHONE 631-344-4549		

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 EXFIL 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 BROOKHAVEN NATIONAL LABORATORY  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

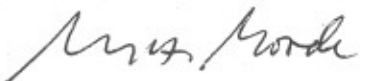
NY0005835	001M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
PROCESS SANIT & STORMWTR RNOFF  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
2 - Butanone 78356 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	<5		0	03/30	GR
	PERMIT REQUIREMENT	*****	*****		*****	*****	50 DAILY MX	ug/L		Twice Per Month	GRAB
BOD, 5-day, percent removal 81010 K 0 Percent Removal	SAMPLE MEASUREMENT	*****	*****		>95	*****	*****		0	01/30	CA
	PERMIT REQUIREMENT	*****	*****		85 MO AV MN	*****	*****	%		Once Per Month	CALCTD
Solids, suspended percent removal 81011 K 0 Percent Removal	SAMPLE MEASUREMENT	*****	*****		>99	*****	*****		0	01/30	CA
	PERMIT REQUIREMENT	*****	*****		85 MO AV MN	*****	*****	%		Once Per Month	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE		
			2007	10	23
			YEAR	MO	DAY
			TELEPHONE		
			631-344-4549		

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 BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR


NY0005835	002M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR  
 (SUBR 01)  
 AGS NON-C COOLING,PRCP,ETC (HN)  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*****	*****		7.3	*****	7.4		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease	SAMPLE MEASUREMENT	*****	*****		*****	*****	1.6		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.09	*****		*****	*****	*****		0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	Mgal/d	*****	*****	*****			Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <b>George A. Goode</b> Division Manager Environmental & Waste Management Services Division 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.		DATE		
			2007	10	23
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 631-344-4549		

Comments and Explanation of any violations (Reference all attachments here)  
 SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS. SAMPLING FOR THIS OUTFALL SHALL BE CONDUCTED AT A LOCTION DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES WITH THE COOLING TOWER BLOWDOWN FROM THE STAR DETECTOR.

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR

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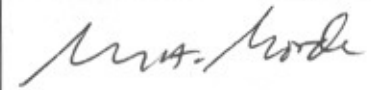
NY0005835	005M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR (SUBR 01)  
 NSLS COOLING TOWR BLDN ETC (HS)  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH 00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		7.1	*****	7.9		0	04/30	GR
	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	8.5 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease 00556 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	<1.4		0	01/30	GR
	PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
Flow, in conduit or thru treatment plant 50050 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.10	*****		*****	*****	*****		0	04/30	RC
	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	Mgal/d	*****	*****	*****			Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE		
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			YEAR	MO	DAY
			TELEPHONE		
			631-344-4549		

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 BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR

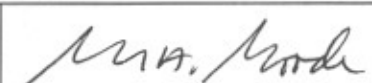
NY0005835	007M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR (SUBR 01)  
 WATER TREATMENT PLT BKWSH (HX)  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate	SAMPLE MEASUREMENT	*****	120000		*****	*****	*****		0	16/30	IN
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	gal/d	*****	*****	*****			Once Per Month	INSTAN
pH	SAMPLE MEASUREMENT	*****	*****		6.7	*****	6.7		0	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Once Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division 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.		DATE		
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			YEAR	MO	DAY
			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
			631-344-4549		

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

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



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

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

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ADDRESS 53 BELL AVENUE, BLDG 464  
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FACILITY BROOKHAVEN NATIONAL LABORATORY  
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ATTN: MICHAEL HOLLAND, OFFICE MGR

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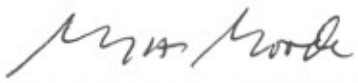
NY0005835	008M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
MAJOR  
(SUBR 01)  
STORMWTR RUNOFF WAREHOUSE (HW)  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS				
Flow rate	SEE NOTE #2	SAMPLE MEASUREMENT	*****	3017300		*****	*****	*****		0	01/30	IN
00056 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	gal/d	*****	*****	*****			Once Per Month	INSTAN
pH		SAMPLE MEASUREMENT	*****	*****		7.2	*****	7.2		0	01/30	GR
00400 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	8.5 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease	SEE NOTE #1	SAMPLE MEASUREMENT	*****	*****		*****	*****	1.4		0	01/30	GR
00556 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
1, 1 - Dichloroethylene		SAMPLE MEASUREMENT	*****	*****		*****	*****	<1		0	01/30	GR
34501 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Once Per Month	GRAB
1, 1, 1 - Trichloroethane		SAMPLE MEASUREMENT	*****	*****		*****	*****	<1		0	01/30	GR
34506 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Once Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <b>George A. Goode</b> Division Manager Environmental & Waste Management Services Division 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.		DATE		
			2007	10	23
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 631-344-4549		

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

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

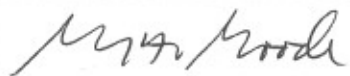
NY0005835	010M
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
STORMWTR R O CENTRAL STEAM (H)  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS				
Flow rate	SEE NOTE #2	SAMPLE MEASUREMENT	*****	176400		*****	*****	*****		0	01/30	IN
50050 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	gal/d	*****	*****	*****			Once Per Month	INSTAN
pH		SAMPLE MEASUREMENT	*****	*****		7.2	*****	7.2		0	01/30	GR
00400 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	8.5 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease		SAMPLE MEASUREMENT	*****	*****		*****	*****	<1.4		0	01/30	GR
00556 1 0 Effluent Gross		PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division 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.		DATE		
			2007	10	23
			YEAR	MO	DAY
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		
			631-344-4549		

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.



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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

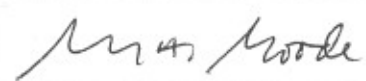
NY0005835	06AM
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
MAJOR  
(SUBR 01)  
LINAC NCCW, FLOOR DNS, ETC (HT1)  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*****	*****		7.6	*****	8.0		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease	SAMPLE MEASUREMENT	*****	*****		*****	*****	1.9		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.06	*****		*****	*****	*****		0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	Mgal/d	*****	*****	*****			Once Per Month	FCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE		
			2007	10	23
			YEAR	MO	DAY
			TELEPHONE		
			631-344-4549		

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 BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR


NY0005835	06BM
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR (SUBR 01)  
 COOLING TWR FROM 919 ETC (HT2)  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	09	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	SAMPLE MEASUREMENT	*****	*****		7.6	*****	8.1		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease	SAMPLE MEASUREMENT	*****	*****		*****	*****	<1.4		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	15 DAILY MX	mg/L		Once Per Month	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.005	*****		*****	*****	*****		0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	*****	Mgal/d	*****	*****	*****			Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE		
			2007 10 23 YEAR MO DAY TELEPHONE 631-344-4549		

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 BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR

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NY0005835	001Q
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR (SUBR 01)  
 PROCESS SANIT EFFL & STORMWTR  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Polychlorinated biphenyls (PCBs)	SEE NOTE #4	*****	*****		*****	*****	<0.02		0	03/90	GR
39516 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX ug/L			Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division 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.		DATE		
			2007	10	23
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE 631-344-4549		

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.

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR

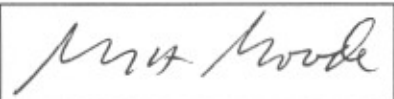
NY0005835	002Q
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR (SUBR 01)  
 AGS NON-C COOLG, PRECP ETC (HN)  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS				
Aluminum, total (as Al) 01105 1 0 Effluent Gross	SEE NOTE #1	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.08		0	01/90	GR
		PERMIT REQUIREMENT	*****	*****		*****	*****	2 DAILY MX	mg/L		Quarterly	GRAB
Dichlorobromomethane 32101 1 0 Effluent Gross		SAMPLE MEASUREMENT	*****	*****		*****	*****	<1		0	01/90	GR
		PERMIT REQUIREMENT	*****	*****		*****	*****	50 DAILY MX	ug/L		Quarterly	GRAB
Chloroform 32106 1 0 Effluent Gross		SAMPLE MEASUREMENT	*****	*****		*****	*****	<1		0	01/90	GR
		PERMIT REQUIREMENT	*****	*****		*****	*****	7 DAILY MX	ug/L		Quarterly	GRAB
1, 1, 1 - Trichloroethane 34506 1 0 Effluent Gross		SAMPLE MEASUREMENT	*****	*****		*****	*****	<1		0	01/90	GR
		PERMIT REQUIREMENT	*****	*****		*****	*****	5 DAILY MX	ug/L		Quarterly	GRAB
1 - Hydroxyethylidene 85812 1 0 Effluent Gross		SAMPLE MEASUREMENT	*****	*****		*****	*****	<0.05		0	01/90	GR
		PERMIT REQUIREMENT	*****	*****		*****	*****	0.5 DAILY MX	mg/L		Quarterly	GRAB
Tolytriazole 85813 1 0 Effluent Gross		SAMPLE MEASUREMENT	*****	*****		*****	*****	<0.005		0	01/90	GR
		PERMIT REQUIREMENT	*****	*****		*****	*****	0.2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division 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.		DATE		
			2007	10	23
			YEAR	MO	DAY
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 631-344-4549		

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

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

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR

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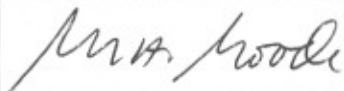
NY0005835	005Q
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR  
 (SUBR 01)  
 NSLS COOLG TOWR BLOWDN ETC (HS)  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****		*****	*****	<0.003		0	01/90	GR
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	1 DAILY MX	mg/L		Quarterly	GRAB
1 - Hydroxyethylidene	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 0.05		0	01/90	GR
85812 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.5 DAILY MX	mg/L		Quarterly	GRAB
Tolytriazole	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 0.005		0	01/90	GR
85813 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE		
			2007	10	22
			YEAR	MO	DAY
			TELEPHONE 631-344-4549		

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.

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR

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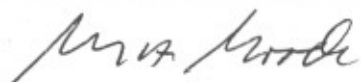
NY0005835	008Q
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR (SUBR 01)  
 SW RUNOFF FROM WAREHOUSE AREA  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Aluminum, dissolved (as Al)	SEE NOTE #1	*****	*****		*****	*****	0.2		0	01/90	GR
01106 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division 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.		DATE		
			2007	10	23
			YEAR	MO	DAY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
			631-344-4549		

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

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

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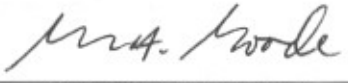
NY0005835	010Q
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
SW RUNOFF FROM CENTRAL STM (H)  
External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Copper, dissolved (as Cu)	SEE NOTE #1	*****	*****		*****	*****	0.003		0	01/90	GR
01040 1 0 Effluent Gross		*****	*****		*****	*****	1 DAILY MX	mg/L		Quarterly	GRAB
Lead, dissolved (as Pb)	SEE NOTE #1	*****	*****		*****	*****	0.0008		0	01/90	GR
01049 1 0 Effluent Gross		*****	*****		*****	*****	0.05 DAILY MX	mg/L		Quarterly	GRAB
Vanadium, dissolved ( as V)	SEE NOTE #1	*****	*****		*****	*****	0.006		0	01/90	GR
01085 1 0 Effluent Gross		*****	*****		*****	*****	REPORT DAILY MX	mg/L		Quarterly	GRAB
Aluminum, dissolved (as Al)		*****	*****		*****	*****	<0.07		0	01/90	GR
01106 1 0 Effluent Gross		*****	*****		*****	*****	2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE				
			2007	10	23	TELEPHONE	
						631-344-4549	

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



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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
**NAME** BROOKHAVEN NATIONAL LABORATORY  
**ADDRESS** 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
**FACILITY** BROOKHAVEN NATIONAL LABORATORY  
**LOCATION** 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
**ATTN:** MICHAEL HOLLAND, OFFICE MGR

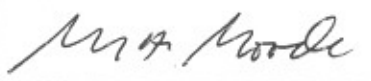
NY0005835	06AQ
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR  
 (SUBR 01)  
 LINAC NCCW, FLOOR DNS, SW (HT1)  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
1 - Hydroxyethylidene	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 0.05		0	01/90	GR
85812 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.5 DAILY MX	mg/L		Quarterly	GRAB
Tolytriazole	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 0.005		0	01/90	GR
85813 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE		
			2007	10	23

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.



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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR

Page 25

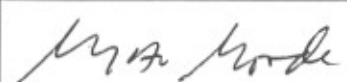
NY0005835	06BQ
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR (SUBR 01)  
 COOLG TOWRS FROM 919 ETC (HT2)  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
1 - Hydroxyethylidene	SAMPLE MEASUREMENT	*****	*****		*****	*****	<0.05		0	01/90	GR
85812 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.5 DAILY MX	mg/L		Quarterly	GRAB
Tolytriazole	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 0.005		0	01/90	GR
85813 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	*****	0.2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division Typed or Printed	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE				
			2007	10	23	TELEPHONE	
			YEAR	MO	DAY	631-344-4549	

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.

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

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

NAME BROOKHAVEN NATIONAL LABORATORY  
 ADDRESS 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 FACILITY BROOKHAVEN NATIONAL LABORATORY  
 LOCATION 53 BELL AVENUE, BLDG 464  
 UPTON, NY 11973  
 ATTN: MICHAEL HOLLAND, OFFICE MGR

Page 26


NY0005835	002R
PERMIT NUMBER	DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11973  
 MAJOR  
 (SUBR 01)  
 RF(1004) & BRAHMS(1002) BLOWDN  
 External Outfall

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
07	07	01	07	09	30

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
1 - Hydroxyethylidene	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 0.05			01/90	GR
85812 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****		*****	*****	0.5 DAILY MX	mg/L		Quarterly	GRAB
Tolytriazole	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 0.005			01/90	GR
85813 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****		*****	*****	0.2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental & Waste Management Services Division 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.		DATE		
			2007	10	23
			YEAR	MO	DAY
			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
			631-344-4549		

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

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

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**ATTACHMENT II**

**BROOKHAVEN NATIONAL LABORATORY**

**SPDES PERMIT NO. NY0005835**

**DISCHARGE MONITORING REPORT FOR SEPTEMBER 2007**

**NONCOMPLIANCE REPORT**

SECTION 1



New York State Department of Environmental Conservation
Division of Water



Report of Noncompliance Event

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

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

SECTION 2

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

Date of noncompliance: 9/21/07 Location (Outfall, Treatment Unit, or Pump Station): 001

Description of noncompliance(s) and cause(s): A 24-hour composite sample was collected on September 21, 2007 from Outfall 001 that had a total nitrogen concentration of 11.2 mg/L, which exceeds the permit limit of 10 mg/L. In-house process control sampling and analysis of the effluent indicates that nitrate levels have decreased and that this is not a continuous event. The most likely cause is increased nitrogen loads associated with routine steam condensate releases and boiler draining activities at the Laboratory's Central Steam Facility (CSF).

Has event ceased? (Yes) (No) If so, when? 9/24/07 Was event due to plant upset? (Yes) (No) SPDES limits violated? (Yes) (No)

Start date, time of event: 9/21/07 1015 (AM) (PM) End date, time of event: 9/24/07 0900 (AM) (PM)

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

Immediate corrective actions: None. Due to the lag time between sample collection, analysis, and receipt of results no immediate actions were possible. However, nitrate levels in the plant are measured frequently along with several other parameters that may contribute to the increased levels of nitrogen in the discharge (e.g., oxygen levels, flow, and temperature). Several corrective actions were implemented in fall 2006 to address the periodic episodes of high nitrogen levels. These corrective actions were summarized in an investigation report that was included in the October 2006 Discharge Monitoring Report.

Preventative (long term) corrective actions: The Laboratory is continuing to look into the possibility that the elevated nitrogen levels observed in February, and most recently, September 2007 sampling events were due to routine condensate blow down and boiler draining activities that are discharged to the STP. The condensate blow down contains water treatment chemicals (i.e., amines) that help prevent corrosion of the system. This chemical may contain organic nitrogen that is converted to nitrate during the metabolic processes in the plant. A sample of the condensate collected in April 2006 revealed a total nitrogen concentration of 21 mg/L, which may be high enough to affect the nitrogen removal rates at the plant. Nitrate reducing bacteria have been purchased and are currently being added to the plant to address the periodic elevated total nitrogen levels.

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: Date

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: George A. Goode Title: Division Manager 10/23/07 Date

Phone #: (631) 344-4549 Fax #: (631) 344-7334

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

**ATTACHMENT III**

**BROOKHAVEN NATIONAL LABORATORY**

**SPDES PERMIT NO. NY0005835**

**DISCHARGE MONITORING REPORT FOR SEPTEMBER 2007**

**ANALYTICAL RESULTS FROM H2M LABS**

**AND GENERAL ENGINEERING LABORATORIES, LLC**

**FOR REGULATORY COMPLIANCE SAMPLES COLLECTED**

**9/17/07, 9/19/07, and 9/21/07**

**FROM OUTFALL 001**

# H2M LABS, INC.

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

## LABORATORY RESULTS

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

Lab No. : 0710755-001

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 24796-001

Collected : 9/17/2007 10:30:00 AM  
Received : 9/17/2007 3:15:00 PM  
Collected By CLIENT  
Copies To : Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	< 2		1	mg/L	E405.1	09/19/2007 8:00 AM
Nitrogen, Total	6.8		1	mg/L	M4500-N C	09/27/2007
Nitrogen, Ammonia (As N)	< 0.10		1	mg/L	E350.1	09/26/2007 10:08 AM
Nitrite as N	< 0.01		1	mg/L	E353.2	09/18/2007 1:45 PM
Nitrate as N	6.07		10	mg/L	E353.2	09/18/2007 11:21 AM
Nitrogen, Kjeldahl, Total	0.75		1	mg/L	E351.2	09/26/2007 1:21 PM

Outfall 001  
Sampled 9/17/07  
24 hour composite

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

D.F. = Dilution Factor

Date Reported : 9/28/2007

*Joann M. Alavin*

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 : Bob Lee

Lab No. : 0710906-001

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 24810-001

Collected : 9/19/2007 10:50:00 AM  
Received : 9/19/2007 3:15:00 PM  
Collected By CLIENT  
Copies To : Original  
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2		1	mg/L	E405.1	09/20/2007 12:30 PM
Nitrogen, Total	8.1		1	mg/L	M4500-N C	09/27/2007
Nitrogen, Ammonia (As N)	< 0.10		1	mg/L	E350.1	09/26/2007 10:11 AM
Nitrite as N	< 0.01		1	mg/L	E353.2	09/20/2007 1:31 PM
Nitrate as N	7.24		10	mg/L	E353.2	09/20/2007 11:07 AM
Nitrogen, Kjeldahl, Total	0.82		1	mg/L	E351.2	09/26/2007 1:32 PM

Outfall 001  
Sampled 9/19/07  
24 hour composite

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

D.F. = Dilution Factor

Date Reported : 9/28/2007

*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 : Bob Lee

Lab No. : 0710994-001

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 24822-001

Collected : 9/21/2007 10:15:00 AM

Received : 9/21/2007 3:15:00 PM

Collected By : CLIENT

Copies To : Original

CC

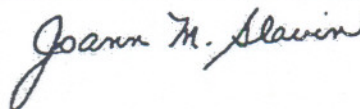
Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2		1	mg/L	E405.1	09/21/2007 4:25 PM
Nitrogen, Total	11.2		1	mg/L	M4500-N C	09/27/2007
Nitrogen, Ammonia (As N)	0.19		1	mg/L	E350.1	09/26/2007 10:12 AM
Nitrite as N	< 0.01		1	mg/L	E353.2	09/22/2007 12:09 PM
Nitrate as N	10.3		20	mg/L	E353.2	09/24/2007 2:07 PM
Nitrogen, Kjeldahl, Total	0.92		1	mg/L	E351.2	09/26/2007 1:47 PM

Outfall 001  
Sampled 9/21/07  
24 hour composite

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

D.F. = Dilution Factor

Date Reported : 9/28/2007



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 : Bob Lee

Lab No. : 0710755-002

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 24796-002

Collected : 9/17/2007 1:30:00 PM  
Received : 9/17/2007 3:15:00 PM  
Collected By CLIENT  
Copies To : Original  
CC

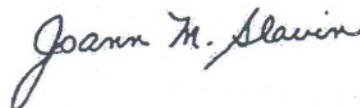
Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Total Coliform	40		1	MPN	M9221 BC	09/17/2007 3:30 PM
Fecal Coliform	< 2		1	MPN	M9221 BC	09/17/2007 3:30 PM

Outfall 001  
Sampled 9/17/07  
Grab

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

D.F. = Dilution Factor

Date Reported : 9/28/2007



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 : Bob Lee

Lab No. : 0710906-002

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 24810-002

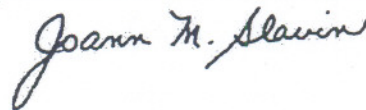
Collected : 9/19/2007 2:00:00 PM  
Received : 9/19/2007 3:15:00 PM  
Collected By CLIENT  
Copies To : Original  
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Total Coliform	< 2		1	MPN	M9221 BC	09/19/2007 4:00 PM
Fecal Coliform	< 2		1	MPN	M9221 BC	09/19/2007 4:00 PM

Outfall 001  
sampled 9/19/07  
Grab

Qualifiers: E - Value above quantitation range  
D - Results for Dilution  
D.F. = Dilution Factor

Date Reported : 9/28/2007



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 : Bob Lee

Lab No. : 0710994-002

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 24822-002

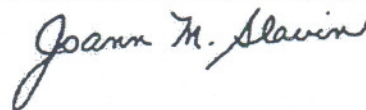
Collected : 9/21/2007 1:30:00 PM  
Received : 9/21/2007 3:15:00 PM  
Collected By : CLIENT  
Copies To : Original  
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Total Coliform	8		1	MPN	M9221 BC	09/21/2007 4:00 PM
Fecal Coliform	< 2		1	MPN	M9221 BC	09/21/2007 4:00 PM

Outfall 001  
Sampled 9/21/07  
Grabs

Qualifiers: E - Value above quantitation range  
D - Results for Dilution  
D.F. = Dilution Factor

Date Reported : 9/28/2007



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 : Bob Lee

Lab No. : 0710755-003

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 24796-003

Collected : 9/17/2007 10:40:00 AM  
Received : 9/17/2007 3:15:00 PM  
Collected By CLIENT  
Copies To : Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Biochemical Oxygen Demand	30		1	mg/L	E405.1	09/19/2007 8:10 AM

STP Influent  
Sampled 9/17/07  
24 hour composite

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

D.F. = Dilution Factor

Date Reported : 9/28/2007

*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 : Bob Lee

Lab No. : 0710906-003

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 24810-003

Collected : 9/19/2007 11:15:00 AM  
Received : 9/19/2007 3:15:00 PM  
Collected By CLIENT  
Copies To : Original  
CC

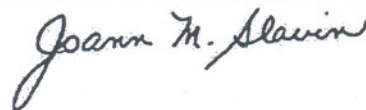
Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	39		1	mg/L	E405.1	09/20/2007 12:35 PM

STP Influent  
Sampled 9/19/07  
24 hour composite

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

D.F. = Dilution Factor

Date Reported : 9/28/2007



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 : Bob Lee

Lab No. : 0710994-003

Sample Information...  
Type : Aqueous

Origin:

Client ID. : 24822-003

Collected : 9/21/2007 10:30:00 AM  
Received : 9/21/2007 3:15:00 PM  
Collected By CLIENT  
Copies To : Original  
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	60		1	mg/L	E405.1	09/21/2007 4:30 PM

STP Influent  
Sampled 9/21/07  
24 hour composite

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

D.F. = Dilution Factor

Date Reported : 9/28/2007

*Joann M. Slavin*

Laboratory Manager



**Volatile  
Certificate of Analysis  
Sample Summary**

SDG Number: 193936	Date Collected: 09/17/2007 13:30	Matrix: WATER
Lab Sample ID: 193936002	Date Received: 09/18/2007 09:30	
Client Sample: STP Effluent	Client: BRKL005	Project: BRKL00504
Client ID: 24795-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 685186	Inst: VOA2.I	Dilution: 1
Run Date: 09/20/2007 18:41	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 09/20/2007 18:41		
Data File: 2c425.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
74-87-3	Chloromethane	U	1.00	ug/L	0.500	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.500	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.310	1.00
67-64-1	Acetone	U	5.00	ug/L	1.25	5.00
75-05-8	Acetonitrile	U	25.0	ug/L	6.25	25.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00
75-09-2	Methylene chloride	U	2.00	ug/L	2.00	2.00
1634-04-4	tert-Butyl methyl ether	U	5.00	ug/L	0.250	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.250	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00
108-88-3	Toluene	J	0.378	ug/L	0.250	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.250	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.250	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00

*Outfall 00/  
Sampled 9/17/07  
Grabs*

Volatile  
Certificate of Analysis  
Sample Summary

SDG Number: 194148	Date Collected: 09/19/2007 14:00	Matrix: WATER
Lab Sample ID: 194148002	Date Received: 09/20/2007 09:45	
Client Sample: STP Effluent	Client: BRKL005	Project: BRKL00504
Client ID: 24809-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 686871	Inst: VOA7.I	Dilution: 1
Run Date: 09/26/2007 22:23	Analyst: ACJ	Purge Vol: 5 mL
Prep Date: 09/26/2007 22:23		
Data File: 7d333.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
74-87-3	Chloromethane	U	1.00	ug/L	0.500	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.500	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.310	1.00
67-64-1	Acetone	J	1.69	ug/L	1.25	5.00
75-05-8	Acetonitrile	U	25.0	ug/L	6.25	25.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00
75-09-2	Methylene chloride	U	2.00	ug/L	2.00	2.00
1634-04-4	tert-Butyl methyl ether	U	5.00	ug/L	0.250	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00
67-66-3	Chloroform	J	0.342	ug/L	0.250	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.250	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.250	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.250	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00

Outfall 001  
Sampled 9/19/07  
Grab



**Volatile  
Certificate of Analysis  
Sample Summary**

SDG Number: 194280	Date Collected: 09/21/2007 13:30	Matrix: WATER
Lab Sample ID: 194280002	Date Received: 09/22/2007 09:30	
Client Sample: STP Effluent	Client: BRKL005	Project: BRKL00504
Client ID: 24821-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 686871	Inst: VOA7.I	Dilution: 1
Run Date: 09/27/2007 00:41	Analyst: ACJ	Purge Vol: 5 mL
Prep Date: 09/27/2007 00:41		
Data File: 7d338.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
74-87-3	Chloromethane	J	0.835	ug/L	0.500	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.500	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.310	1.00
67-64-1	Acetone	J	1.66	ug/L	1.25	5.00
75-05-8	Acetonitrile	U	25.0	ug/L	6.25	25.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00
75-09-2	Methylene chloride	U	2.00	ug/L	2.00	2.00
1634-04-4	tert-Butyl methyl ether	U	5.00	ug/L	0.250	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.250	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.250	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.250	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00

*Outfall 001  
Sampled 9/21/07*

**Pesticide  
Certificate of Analysis  
Sample Summary**

SDG Number: 193936	Date Collected: 09/17/2007 13:30	Matrix: WATER
Lab Sample ID: 193936002	Date Received: 09/18/2007 09:30	
Client Sample: STP Effluent	Client: BRKL005	Project: BRKL00504
Client ID: 24795-002	Method: EPA 608	SOP Ref: GL-OA-E-041
Batch ID: 685638	Inst: ECD3A.I	Dilution: 1
Run Date: 09/26/2007 05:04	Analyst: HXJ1	Inj. Vol: 1 uL
Prep Date: 09/24/2007 15:47	Aliquot: 1000 mL	Final Volume: .5 mL
Data File: 041f4101.d	Column: 1 Rtx-CLPest1	Level: LOW
	2 Rtx-CLPest2	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL	Column
319-84-6	alpha-BHC	U	0.002	ug/L	0.0005	0.002		1
58-89-9	gamma-BHC (Lindane)	U	0.002	ug/L	0.0005	0.002		1
319-85-7	beta-BHC	U	0.002	ug/L	0.000845	0.002		1
319-86-8	delta-BHC	U	0.002	ug/L	0.0005	0.002		1
76-44-8	Heptachlor	U	0.002	ug/L	0.000655	0.002		1
309-00-2	Aldrin	U	0.002	ug/L	0.0005	0.002		1
1024-57-3	Heptachlor epoxide	U	0.002	ug/L	0.0005	0.002		1
959-98-8	Endosulfan I	U	0.002	ug/L	0.0005	0.002		1
72-55-9	4,4'-DDE	U	0.004	ug/L	0.0005	0.004		1
60-57-1	Dieldrin	U	0.004	ug/L	0.0005	0.004		1
72-20-8	Endrin	U	0.004	ug/L	0.0005	0.004		1
72-54-8	4,4'-DDD	U	0.004	ug/L	0.0005	0.004		1
33213-65-9	Endosulfan II	U	0.004	ug/L	0.0005	0.004		1
7421-93-4	Endrin aldehyde	U	0.004	ug/L	0.0005	0.004		1
50-29-3	4,4'-DDT	U	0.004	ug/L	0.001	0.004		1
1031-07-8	Endosulfan sulfate	U	0.004	ug/L	0.0005	0.004		1
57-74-9	Chlordane (tech.)	U	0.025	ug/L	0.00765	0.025		1
8001-35-2	Toxaphene	U	0.050	ug/L	0.015	0.050		1
12674-11-2	Aroclor-1016	U	0.050	ug/L	0.0167	0.050	0.065	1
11104-28-2	Aroclor-1221	U	0.050	ug/L	0.0167	0.050	0.065	1
11141-16-5	Aroclor-1232	U	0.050	ug/L	0.0167	0.050	0.065	1
53469-21-9	Aroclor-1242	U	0.050	ug/L	0.0167	0.050	0.065	1
12672-29-6	Aroclor-1248	U	0.050	ug/L	0.0167	0.050	0.065	1
11097-69-1	Aroclor-1254	U	0.050	ug/L	0.0167	0.050	0.065	1
11096-82-5	Aroclor-1260	U	0.050	ug/L	0.0167	0.050	0.065	1

Outfall 001  
Sampled 9/17/07  
Grab Sample

**Pesticide  
Certificate of Analysis  
Sample Summary**

SDG Number: 194148	Date Collected: 09/19/2007 14:00	Matrix: WATER
Lab Sample ID: 194148002	Date Received: 09/20/2007 09:45	
Client Sample: STP Effluent	Client: BRKL005	Project: BRKL00504
Client ID: 24809-002	Method: EPA 608	SOP Ref: GL-OA-E-041
Batch ID: 685638	Inst: ECD3A.I	Dilution: 1
Run Date: 09/26/2007 05:42	Analyst: HXJ1	Inj. Vol: 1 uL
Prep Date: 09/24/2007 15:47	Aliquot: 1030 mL	Final Volume: .5 mL
Data File: 044f4401.d	Column: 1 Rtx-CLPest1	Level: LOW
044b4401.d	2 Rtx-CLPest2	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL	Column
319-84-6	alpha-BHC	U	0.00194	ug/L	0.000485	0.00194		1
58-89-9	gamma-BHC (Lindane)	U	0.00194	ug/L	0.000485	0.00194		1
319-85-7	beta-BHC	U	0.00194	ug/L	0.00082	0.00194		1
319-86-8	delta-BHC	U	0.00194	ug/L	0.000485	0.00194		1
76-44-8	Heptachlor	U	0.00194	ug/L	0.000636	0.00194		1
309-00-2	Aldrin	U	0.00194	ug/L	0.000485	0.00194		1
1024-57-3	Heptachlor epoxide	U	0.00194	ug/L	0.000485	0.00194		1
959-98-8	Endosulfan I	U	0.00194	ug/L	0.000485	0.00194		1
72-55-9	4,4'-DDE	U	0.00388	ug/L	0.000485	0.00388		1
60-57-1	Dieldrin	U	0.00388	ug/L	0.000485	0.00388		1
72-20-8	Endrin	U	0.00388	ug/L	0.000485	0.00388		1
72-54-8	4,4'-DDD	U	0.00388	ug/L	0.000485	0.00388		1
33213-65-9	Endosulfan II	U	0.00388	ug/L	0.000485	0.00388		1
7421-93-4	Endrin aldehyde	U	0.00388	ug/L	0.000485	0.00388		1
50-29-3	4,4'-DDT	U	0.00388	ug/L	0.000971	0.00388		1
1031-07-8	Endosulfan sulfate	U	0.00388	ug/L	0.000485	0.00388		1
57-74-9	Chlordane (tech.)	U	0.0243	ug/L	0.00743	0.0243		1
8001-35-2	Toxaphene	U	0.0485	ug/L	0.0146	0.0485		1
12674-11-2	Aroclor-1016	U	0.0485	ug/L	0.0162	0.0485	0.065	1
11104-28-2	Aroclor-1221	U	0.0485	ug/L	0.0162	0.0485	0.065	1
11141-16-5	Aroclor-1232	U	0.0485	ug/L	0.0162	0.0485	0.065	1
53469-21-9	Aroclor-1242	U	0.0485	ug/L	0.0162	0.0485	0.065	1
12672-29-6	Aroclor-1248	U	0.0485	ug/L	0.0162	0.0485	0.065	1
11097-69-1	Aroclor-1254	U	0.0485	ug/L	0.0162	0.0485	0.065	1
11096-82-5	Aroclor-1260	U	0.0485	ug/L	0.0162	0.0485	0.065	1

Outfall 001  
Sampled 9/19/07  
Grab



**Pesticide  
Certificate of Analysis  
Sample Summary**

SDG Number: 194280	Date Collected: 09/21/2007 13:30	Matrix: WATER
Lab Sample ID: 194280002	Date Received: 09/22/2007 09:30	
Client Sample: STP Effluent	Client: BRKL005	Project: BRKL00504
Client ID: 24821-002	Method: EPA 608	SOP Ref: GL-OA-E-041
Batch ID: 686930	Inst: ECD3A.I	Dilution: 1
Run Date: 09/27/2007 19:10	Analyst: HXJ1	Inj. Vol: 1 uL
Prep Date: 09/26/2007 23:23	Aliquot: 1080 mL	Final Volume: .5 mL
Data File: 016f1601.d	Column: 1 Rtx-CLPest1	Level: LOW
016b1601.d	2 Rtx-CLPest2	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL	Column
319-84-6	alpha-BHC	U	0.00185	ug/L	0.000463	0.00185		1
58-89-9	gamma-BHC (Lindane)	U	0.00185	ug/L	0.000463	0.00185		1
319-85-7	beta-BHC	U	0.00185	ug/L	0.000782	0.00185		1
319-86-8	delta-BHC	U	0.00185	ug/L	0.000463	0.00185		1
76-44-8	Heptachlor	U	0.00185	ug/L	0.000606	0.00185		1
309-00-2	Aldrin	U	0.00185	ug/L	0.000463	0.00185		1
1024-57-3	Heptachlor epoxide	U	0.00185	ug/L	0.000463	0.00185		1
959-98-8	Endosulfan I	U	0.00185	ug/L	0.000463	0.00185		1
72-55-9	4,4'-DDE	U	0.0037	ug/L	0.000463	0.0037		1
60-57-1	Dieldrin	U	0.0037	ug/L	0.000463	0.0037		1
72-20-8	Endrin	U	0.0037	ug/L	0.000463	0.0037		1
72-54-8	4,4'-DDD	U	0.0037	ug/L	0.000463	0.0037		1
33213-65-9	Endosulfan II	U	0.0037	ug/L	0.000463	0.0037		1
7421-93-4	Endrin aldehyde	U	0.0037	ug/L	0.000463	0.0037		1
50-29-3	4,4'-DDT	U	0.0037	ug/L	0.000926	0.0037		1
1031-07-8	Endosulfan sulfate	U	0.0037	ug/L	0.000463	0.0037		1
57-74-9	Chlordane (tech.)	U	0.0231	ug/L	0.00708	0.0231		1
8001-35-2	Toxaphene	U	0.0463	ug/L	0.0139	0.0463		1
12674-11-2	Aroclor-1016	U	0.0463	ug/L	0.0154	0.0463	0.065	1
11104-28-2	Aroclor-1221	U	0.0463	ug/L	0.0154	0.0463	0.065	1
11141-16-5	Aroclor-1232	U	0.0463	ug/L	0.0154	0.0463	0.065	1
53469-21-9	Aroclor-1242	U	0.0463	ug/L	0.0154	0.0463	0.065	1
12672-29-6	Aroclor-1248	U	0.0463	ug/L	0.0154	0.0463	0.065	1
11097-69-1	Aroclor-1254	U	0.0463	ug/L	0.0154	0.0463	0.065	1
11096-82-5	Aroclor-1260	U	0.0463	ug/L	0.0154	0.0463	0.065	1

Outfall 001  
Sampled 9/21/07



METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 193936

METHOD TYPE: SW846

SAMPLE ID: 193936001

CLIENT ID: 24795-001

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 18-SEP-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	68	ug/L	U		P	68	1	TRACE2	091907-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	TRACE2	091907-1
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS3	070920-3
7440-39-3	Barium	13.9	ug/L	B		P	1	1	TRACE2	091907-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	091907-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	091907-1
7440-70-2	Calcium	13100	ug/L			P	30	1	TRACE2	091907-1
7440-47-3	Chromium	1.6	ug/L	B		P	1	1	TRACE2	091907-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	TRACE2	091907-1
7440-50-8	Copper	42.1	ug/L			P	3	1	TRACE2	091907-1
7439-89-6	Iron	135	ug/L			P	25	1	TRACE2	091907-1
7439-92-1	Lead	0.550	ug/L	B		MS	0.5	1	ICPMS3	070920-3
7439-95-4	Magnesium	4710	ug/L	B		P	85	1	TRACE2	091907-1
7439-96-5	Manganese	2	ug/L	U		P	2	1	TRACE2	091907-1
7439-97-6	Mercury	0.037	ug/L	B		AV	0.03	1	MER536	092507W1-2
7440-02-0	Nickel	9	ug/L	B		P	1	1	TRACE2	091907-1
7440-09-7	Potassium	4970	ug/L	B		P	50	1	TRACE2	091907-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS3	070920-3
7440-22-4	Silver	1.8	ug/L	B		P	1	1	TRACE2	091907-1
7440-23-5	Sodium	38000	ug/L			P	45	1	TRACE2	091907-1
7440-28-0	Thallium	0.490	ug/L	B		MS	0.3	1	ICPMS3	070920-3
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	TRACE2	091907-1
7440-62-2	Vanadium	6.7	ug/L	B		P	1	1	TRACE2	091907-1
7440-66-6	Zinc	25.1	ug/L			P	2	1	TRACE2	091907-1

Outfall 001  
sampled 9/17/07  
24 hour composite

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 194148

METHOD TYPE: SW846

SAMPLE ID: 194148001

CLIENT ID: 24809-001

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 20-SEP-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	68	ug/L	U		P	68	1	TRACE2	092507-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	TRACE2	092507-1
7440-38-2	Arsenic	2.2	ug/L	B		MS	1.5	1	ICPMS5	070925-3
7440-39-3	Barium	14.2	ug/L	B		P	1	1	TRACE2	092507-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	092507-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	092507-1
7440-70-2	Calcium	12900	ug/L			P	30	1	TRACE2	092507-1
7440-47-3	Chromium	1	ug/L	U		P	1	1	TRACE2	092507-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	TRACE2	092507-1
7440-50-8	Copper	59.7	ug/L			P	3	1	TRACE2	092507-1
7439-89-6	Iron	147	ug/L			P	25	1	TRACE2	092507-1
7439-92-1	Lead	0.620	ug/L	B		MS	0.5	1	ICPMS5	070925-3
7439-95-4	Magnesium	4590	ug/L	B		P	85	1	TRACE2	092507-1
7439-96-5	Manganese	2	ug/L	U		P	2	1	TRACE2	092507-1
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	092707W1-2
7440-02-0	Nickel	9.3	ug/L	B	N	P	1	1	TRACE2	092507-1
7440-09-7	Potassium	5070	ug/L			P	50	1	TRACE2	092507-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS5	070925-3
7440-22-4	Silver	1	ug/L	U		P	1	1	TRACE2	092507-1
7440-23-5	Sodium	38300	ug/L			P	45	1	TRACE2	092507-1
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	070925-3
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	TRACE2	092507-1
7440-62-2	Vanadium	5.9	ug/L	B		P	1	1	TRACE2	092507-1
7440-66-6	Zinc	27.1	ug/L			P	2	1	TRACE2	092507-1

Outfall 001  
Sampled 9/19/07  
24 hour composite



METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 194280

METHOD TYPE: SW846

SAMPLE ID: 194280001

CLIENT ID: 24821-001

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 22-SEP-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	68	ug/L	U		P	68	1	TRACE2	092607-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	TRACE2	092607-1
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	071003-8
7440-39-3	Barium	18.3	ug/L	B		P	1	1	TRACE2	092607-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	092607-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	092607-1
7440-70-2	Calcium	14800	ug/L			P	30	1	TRACE2	092607-1
7440-47-3	Chromium	2	ug/L	B		P	1	1	TRACE2	092607-1
7440-48-4	Cobalt	1.4	ug/L	B		P	1	1	TRACE2	092607-1
7440-50-8	Copper	54.6	ug/L			P	3	1	TRACE2	092607-1
7439-89-6	Iron	122	ug/L			P	25	1	TRACE2	092607-1
7439-92-1	Lead	0.580	ug/L	B		MS	0.5	1	ICPMS5	071003-8
7439-95-4	Magnesium	5040	ug/L			P	85	1	TRACE2	092607-1
7439-96-5	Manganese	2	ug/L	B		P	2	1	TRACE2	092607-1
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	100407W1-2
7440-02-0	Nickel	9.8	ug/L	B		P	1	1	TRACE2	092607-1
7440-09-7	Potassium	5630	ug/L			P	50	1	TRACE2	092607-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS5	071003-8
7440-22-4	Silver	2.9	ug/L	B		P	1	1	TRACE2	092607-1
7440-23-5	Sodium	37100	ug/L			P	45	1	TRACE2	092607-1
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	071003-8
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	TRACE2	092607-1
7440-62-2	Vanadium	7.1	ug/L	B		P	1	1	TRACE2	092607-1
7440-66-6	Zinc	34.2	ug/L			P	2	1	TRACE2	092607-1

Outfall 001  
Sampled 9/21/07  
24 hour composite

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 193936

METHOD TYPE: SW846

SAMPLE ID: 193936003

CLIENT ID: 24795-003

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 18-SEP-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	220	ug/L			P	68	1	TRACE2	091907-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	TRACE2	091907-1
7440-38-2	Arsenic	2.7	ug/L	B		MS	1.5	1	ICPMS3	070920-3
7440-39-3	Barium	65.6	ug/L	B		P	1	1	TRACE2	091907-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	091907-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	091907-1
7440-70-2	Calcium	10500	ug/L			P	30	1	TRACE2	091907-1
7440-47-3	Chromium	2.4	ug/L	B		P	1	1	TRACE2	091907-1
7440-48-4	Cobalt	1.5	ug/L	B		P	1	1	TRACE2	091907-1
7440-50-8	Copper	189	ug/L			P	3	1	TRACE2	091907-1
7439-89-6	Iron	1680	ug/L			P	25	1	TRACE2	091907-1
7439-92-1	Lead	15.4	ug/L			MS	0.5	1	ICPMS3	070920-3
7439-95-4	Magnesium	4040	ug/L	B		P	85	1	TRACE2	091907-1
7439-96-5	Manganese	44.8	ug/L			P	2	1	TRACE2	091907-1
7439-97-6	Mercury	0.330	ug/L			AV	0.03	1	MER536	092507W1-2
7440-02-0	Nickel	14.4	ug/L	B		P	1	1	TRACE2	091907-1
7440-09-7	Potassium	3210	ug/L	B		P	50	1	TRACE2	091907-1
7782-49-2	Selenium	1.2	ug/L	B		MS	1	1	ICPMS3	070920-3
7440-22-4	Silver	1	ug/L	U		P	1	1	TRACE2	091907-1
7440-23-5	Sodium	37100	ug/L			P	45	1	TRACE2	091907-1
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070920-3
7440-31-5	Tin	4.5	ug/L	B		P	2.5	1	TRACE2	091907-1
7440-62-2	Vanadium	8.2	ug/L	B		P	1	1	TRACE2	091907-1
7440-66-6	Zinc	128	ug/L			P	2	1	TRACE2	091907-1

STP Influent  
Sampled 9/17/07  
24 hour composite



METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 194148

METHOD TYPE: SW846

SAMPLE ID: 194148003

CLIENT ID: 24809-003

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 20-SEP-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	194	ug/L	B		P	68	1	TRACE2	092507-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	TRACE2	092507-1
7440-38-2	Arsenic	2.7	ug/L	B		MS	1.5	1	ICPMS5	070925-3
7440-39-3	Barium	55.6	ug/L	B		P	1	1	TRACE2	092507-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	092507-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	092507-1
7440-70-2	Calcium	10800	ug/L			P	30	1	TRACE2	092507-1
7440-47-3	Chromium	2	ug/L	B		P	1	1	TRACE2	092507-1
7440-48-4	Cobalt	1.3	ug/L	B		P	1	1	TRACE2	092507-1
7440-50-8	Copper	206	ug/L			P	3	1	TRACE2	092507-1
7439-89-6	Iron	1550	ug/L			P	25	1	TRACE2	092507-1
7439-92-1	Lead	15.2	ug/L			MS	0.5	1	ICPMS5	070925-3
7439-95-4	Magnesium	4240	ug/L	B		P	85	1	TRACE2	092507-1
7439-96-5	Manganese	58.1	ug/L			P	2	1	TRACE2	092507-1
7439-97-6	Mercury	0.320	ug/L			AV	0.03	1	MER536	092707W1-2
7440-02-0	Nickel	11.3	ug/L	B	N	P	1	1	TRACE2	092507-1
7440-09-7	Potassium	6390	ug/L			P	50	1	TRACE2	092507-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS5	070925-3
7440-22-4	Silver	1	ug/L	U		P	1	1	TRACE2	092507-1
7440-23-5	Sodium	38900	ug/L			P	45	1	TRACE2	092507-1
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	070925-3
7440-31-5	Tin	5.5	ug/L	B		P	2.5	1	TRACE2	092507-1
7440-62-2	Vanadium	5.2	ug/L	B		P	1	1	TRACE2	092507-1
7440-66-6	Zinc	144	ug/L			P	2	1	TRACE2	092507-1

CTP Influent  
sampled 9/19/07  
24 hour composite

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 194280

METHOD TYPE: SW846

SAMPLE ID: 194280003

CLIENT ID: 24821-003

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 22-SEP-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	175	ug/L	B		P	68	1	TRACE2	092607-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	TRACE2	092607-1
7440-38-2	Arsenic	2.2	ug/L	B		MS	1.5	1	ICPMS5	071003-8
7440-39-3	Barium	56.2	ug/L	B		P	1	1	TRACE2	092607-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	092607-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	092607-1
7440-70-2	Calcium	11800	ug/L			P	30	1	TRACE2	092607-1
7440-47-3	Chromium	1.2	ug/L	B		P	1	1	TRACE2	092607-1
7440-48-4	Cobalt	2.4	ug/L	B		P	1	1	TRACE2	092607-1
7440-50-8	Copper	228	ug/L			P	3	1	TRACE2	092607-1
7439-89-6	Iron	1440	ug/L			P	25	1	TRACE2	092607-1
7439-92-1	Lead	12.7	ug/L			MS	0.5	1	ICPMS5	071003-8
7439-95-4	Magnesium	4210	ug/L	B		P	85	1	TRACE2	092607-1
7439-96-5	Manganese	55	ug/L			P	2	1	TRACE2	092607-1
7439-97-6	Mercury	0.063	ug/L	B		AV	0.03	1	MER536	100407W1-2
7440-02-0	Nickel	9.4	ug/L	B		P	1	1	TRACE2	092607-1
7440-09-7	Potassium	6840	ug/L			P	50	1	TRACE2	092607-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS5	071003-8
7440-22-4	Silver	1	ug/L	B		P	1	1	TRACE2	092607-1
7440-23-5	Sodium	36000	ug/L			P	45	1	TRACE2	092607-1
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	071003-8
7440-31-5	Tin	6.7	ug/L	B		P	2.5	1	TRACE2	092607-1
7440-62-2	Vanadium	3.8	ug/L	B		P	1	1	TRACE2	092607-1
7440-66-6	Zinc	109	ug/L			P	2	1	TRACE2	092607-1

STP Influent  
sampled 9/21/07  
24 hour composite



# GEL LABORATORIES LLC

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

## Certificate of Analysis

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

Report Date: September 27, 2007

Contact: Mr. John Burke  
 Project: ES SPDES--Summary

Client Sample ID: 24795-001  
 Sample ID: 193936001  
 Matrix: Water  
 Collect Date: 17-SEP-07 10:30  
 Receive Date: 18-SEP-07 09:30  
 Collector: Client

Project: BRKL00504  
 Client ID: BRKL005  
 COC: 24795  
 Samp Recv.:  
 Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Nutrient Analysis Federal</b>										
<i>EPA 365.4 Phosphorus, Total in</i>										
Phosphorus, Total as P		1.28	0.024	0.050	mg/L	1	AXH3 09/21/07	0804	684174	1
<b>Solids Analysis Federal</b>										
<i>EPA 160.2 Total Suspended Liq</i>										
Total Suspended Solids	U	-0.10	0.570	2.50	mg/L		NXM 09/19/07	1047	684671	2
										1

**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	AXH3	09/19/07	1058	684173

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	EPA 365.4	
2	EPA 160.2	

Outfall 001  
 Sampled 9/17/07  
 24 hour composite

# GEL 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: Mr. John Burke  
Project: ES SPDES--Summary

Report Date: September 28, 2007

Client Sample ID: 24809-001  
Sample ID: 194148001  
Matrix: Water  
Collect Date: 19-SEP-07 10:50  
Receive Date: 20-SEP-07 09:45  
Collector: Client  
Project: BRKL00504  
Client ID: BRKL005  
COC: 24809  
Samp Recv.:  
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Nutrient Analysis Federal</b>										
<i>EPA 365.4 Phosphorus, Total in</i>										
Phosphorus, Total as P		1.22	0.024	0.050	mg/L	1	AXH3 09/25/07	1013	685615	1
<b>Solids Analysis Federal</b>										
<i>EPA 160.2 Total Suspended Liq</i>										
Total Suspended Solids	U	0.200	0.570	2.50	mg/L		NXM 09/21/07	1424	685539	2
							1			

### 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	AXH3	09/24/07	0915	685614

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 365.4	
2	EPA 160.2	

outfall 001  
Sampled 9/19/07  
24 hour composite

# GEL LABORATORIES LLC

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

## Certificate of Analysis

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

Report Date: October 1, 2007

Contact: Mr. John Burke  
 Project: ES SPDES--Summary

Client Sample ID:	24821-001	Project:	BRKL00504
Sample ID:	194280001	Client ID:	BRKL005
Matrix:	Water	COC:	24821
Collect Date:	21-SEP-07 10:15	Samp Recv.:	
Receive Date:	22-SEP-07 09:30	Client Desc.:	STP Effluent
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Nutrient Analysis Federal</b>											
<i>EPA 365.4 Phosphorus, Total in</i>											
Phosphorus, Total as P		1.20	0.024	0.050	mg/L	1	AXH3	09/27/07	1110	686357	1
<b>Solids Analysis Federal</b>											
<i>EPA 160.2 Total Suspended Liq</i>											
Total Suspended Solids	U	0.200	0.570	2.50	mg/L		NXM	09/25/07	0928	685806	2
											1

**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	AXH3	09/26/07	1212	686356

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	EPA 365.4	
2	EPA 160.2	

Outfall 001  
 Sampled 9/21/07  
 24 hour composite



# GEL 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: Mr. John Burke  
Project: **ES SPDES--Summary**

Report Date: September 27, 2007

Client Sample ID: 24795-002  
Sample ID: 193936002  
Matrix: Water  
Collect Date: 17-SEP-07 13:30  
Receive Date: 18-SEP-07 09:30  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24795  
Samp Recv.:  
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Flow Injection Analysis Federal</b>										
<i>SW9012A Cyanide, Total Federal</i>										
Cyanide, Total	U	-1.24	1.50	5.00	ug/L	1	KLP1 09/25/07	1304	684986	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	09/24/07	1438	684985

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Outfall 001  
sampled 9/17/07  
Grab

# GEL LABORATORIES LLC

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

## Certificate of Analysis

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

Report Date: September 28, 2007

Contact: Mr. John Burke  
Project: **ES SPDES--Summary**

Client Sample ID: 24809-002  
Sample ID: 194148002  
Matrix: Water  
Collect Date: 19-SEP-07 14:00  
Receive Date: 20-SEP-07 09:45  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24809  
Samp Recv.:  
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis Federal</b>											
<i>SW9012A Cyanide, Total Federal</i>											
Cyanide, Total	U	-0.22	1.50	5.00	ug/L	1	KLP1	09/26/07	1624	686630	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	09/26/07	1044	686628

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Outfall 001  
Sampled 9/19/07  
Grab

# GEL 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: Mr. John Burke  
Project: ES SPDES--Summary

Report Date: October 1, 2007

Client Sample ID: 24821-002  
Sample ID: 194280002  
Matrix: Water  
Collect Date: 21-SEP-07 13:30  
Receive Date: 22-SEP-07 09:30  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24821  
Samp Recv.:  
Client Desc.: STP Effluent

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis Federal</b>											
<i>SW9012A Cyanide, Total Federal</i>											
Cyanide, Total	U	-2.69	1.50	5.00	ug/L	1	KLP1	09/26/07	1631	686630	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	09/26/07	1044	686628

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Outfall 001  
Sampled 9/21/07  
Grab



# GEL 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: Mr. John Burke  
Project: **ES SPDES--Summary**

Report Date: September 27, 2007

Client Sample ID: 24795-003  
Sample ID: 193936003  
Matrix: Water  
Collect Date: 17-SEP-07 10:40  
Receive Date: 18-SEP-07 09:30  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24795  
Samp Recv.:  
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		51.8	3.35	14.7	mg/L		NXM 09/19/07	1047	684671	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	

STP Influent  
Sampled 9/17/07  
24 hour composite

# GEL 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: Mr. John Burke  
Project: **ES SPDES--Summary**

Report Date: September 28, 2007

Client Sample ID:	24809-003	Project:	BRKL00504
Sample ID:	194148003	Client ID:	BRKL005
Matrix:	Water	COC:	24809
Collect Date:	19-SEP-07 11:15	Samp Recv.:	
Receive Date:	20-SEP-07 09:45	Client Desc.:	STP Influent
Collector:	Client		

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		82.4	5.59	24.5	mg/L		NXM 09/21/07	1424	685539	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	

STP Influent  
Sampled 9/19/07  
24 hour composite

# GEL LABORATORIES LLC

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

## Certificate of Analysis

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

Report Date: October 1, 2007

Contact: Mr. John Burke  
Project: **ES SPDES--Summary**

Client Sample ID: 24821-003  
Sample ID: 194280003  
Matrix: Water  
Collect Date: 21-SEP-07 10:30  
Receive Date: 22-SEP-07 09:30  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24821  
Samp Recv.:  
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		56.0	4.56	20.0	mg/L		NXM 09/25/07	0928	685806	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 160.2	

STP Influent  
Sampled 9/21/07  
24 hour composite

**ATTACHMENT IV**

**BROOKHAVEN NATIONAL LABORATORY**

**SPDES PERMIT NO. NY0005835**

**DISCHARGE MONITORING REPORT FOR SEPTEMBER 2007**

**ANALYTICAL RESULTS FROM H2M LABS INC.,**

**GENERAL ENGINEERING LABORATORIES, LLC,**

**AND CHEMTEX, ENVIRONMENTAL LABORATORY, INC.**

**FOR REGULATORY COMPLIANCE SAMPLES COLLECTED FROM**

**OUTFALLS 001A, 001B, 001F, 002, 002B, 005, 006A, 006B, 008, AND 010**



## Brookhaven National Labs

Client Sample ID: 24462-001

## TOTAL Metals

Lot-Sample #....: F7G210155-001

Matrix.....: W

Date Sampled...: 07/19/07 13:22 Date Received...: 07/21/07

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 7204263						
Calcium	120 B	250	ug/L	SW846 6010B	07/23-08/06/07	J3CV61AC
		Dilution Factor: 1		Analysis Time...: 13:07		
Iron	379	50.0	ug/L	SW846 6010B	07/23-08/06/07	J3CV61AD
		Dilution Factor: 1		Analysis Time...: 13:07		
Magnesium	ND	250	ug/L	SW846 6010B	07/23-08/06/07	J3CV61AE
		Dilution Factor: 1		Analysis Time...: 13:07		
Sodium	850 J	250	ug/L	SW846 6010B	07/23-08/06/07	J3CV61AF
		Dilution Factor: 1		Analysis Time...: 13:07		
Zinc	15.8 J	10.0	ug/L	SW846 6010B	07/23-08/06/07	J3CV61AG
		Dilution Factor: 1		Analysis Time...: 13:07		
Prep Batch #....: 7204264						
Silver	ND	2.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AX
		Dilution Factor: 1		Analysis Time...: 03:01		
Aluminum	53.0	50.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AH
		Dilution Factor: 1		Analysis Time...: 03:01		
Arsenic	ND	5.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AK
		Dilution Factor: 1		Analysis Time...: 03:01		
Barium	1.3 B	20.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AL
		Dilution Factor: 1		Analysis Time...: 03:01		
Beryllium	ND	2.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AM
		Dilution Factor: 1		Analysis Time...: 03:01		
Cadmium	ND	2.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AN
		Dilution Factor: 1		Analysis Time...: 03:01		
Cobalt	ND	5.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AP
		Dilution Factor: 1		Analysis Time...: 03:01		
Chromium	10.0 J	5.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61A2
		Dilution Factor: 1		Analysis Time...: 03:01		

(Continued on next page)

Building 498 (Cleaning Facility)  
Sampled 7/19/07



## Brookhaven National Labs

Client Sample ID: 24462-001

## TOTAL Metals

Lot-Sample #...: F7G210155-001

Matrix.....: W

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Copper	124	10.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AQ
		Dilution Factor: 1		Analysis Time...: 03:01		
Potassium	43.5 B	2000	ug/L	SW846 6020	07/23-08/14/07	J3CV61AV
		Dilution Factor: 1		Analysis Time...: 03:01		
Manganese	9.7	5.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AT
		Dilution Factor: 1		Analysis Time...: 03:01		
Nickel	5.0 B	10.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AU
		Dilution Factor: 1		Analysis Time...: 03:01		
Lead	2.0 B	3.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AR
		Dilution Factor: 1		Analysis Time...: 03:01		
Antimony	ND	5.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AJ
		Dilution Factor: 1		Analysis Time...: 03:01		
Selenium	ND	5.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61AW
		Dilution Factor: 1		Analysis Time...: 03:01		
Thallium	ND	5.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61A0
		Dilution Factor: 1		Analysis Time...: 03:01		
Vanadium	ND	5.0	ug/L	SW846 6020	07/23-08/14/07	J3CV61A1
		Dilution Factor: 1		Analysis Time...: 03:01		
<b>Prep Batch #...: 7205079</b>						
Mercury	ND	0.20	ug/L	SW846 7470A	07/24/07	J3CV61AA
		Dilution Factor: 1		Analysis Time...: 15:33		

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

## Brookhaven National Labs

Client Sample ID: 24462-001

## GC/MS Semivolatiles

Lot-Sample #....: F7G210155-002 Work Order #....: J3CWV1AA Matrix.....: W  
 Date Sampled....: 07/19/07 13:22 Date Received...: 07/21/07  
 Prep Date.....: 07/26/07 Analysis Date...: 07/30/07  
 Prep Batch #....: 7207311 Analysis Time...: 14:39  
 Dilution Factor: 1

Method.....: CFR136A 625

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acenaphthene	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
Anthracene	ND	10	ug/L
Benzo(a)anthracene	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
bis(2-Chloroethyl)- ether	ND	10	ug/L
bis(2-Chloroisopropyl) ether	ND	10	ug/L
<b>bis(2-Ethylhexyl) phthalate</b>	<b>1.3 J</b>	<b>10</b>	<b>ug/L</b>
4-Bromophenyl phenyl ether	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Chrysene	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	40	ug/L
2,4-Dichlorophenol	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
Dimethyl phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
4,6-Dinitro- 2-methylphenol	ND	50	ug/L
2,4-Dinitrophenol	ND	50	ug/L

(Continued on next page)

Building 498  
 Cleaning Facility  
 Sampled 7/19/07

## Brookhaven National Labs

Client Sample ID: 24462-001

## GC/MS Semivolatiles

Lot-Sample #....: F7G210155-002 Work Order #....: J3CWV1AA Matrix.....: W

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
2,4-Dinitrotoluene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Fluorene	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
Hexachlorocyclopenta- diene	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Isophorone	ND	10	ug/L
Naphthalene	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
4-Nitrophenol	ND	50	ug/L
N-Nitrosodimethylamine	ND	10	ug/L
N-Nitrosodi-n-propyl- amine	ND	10	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Phenol	ND	10	ug/L
Pyrene	ND	10	ug/L
1,2,4-Trichloro- benzene	ND	10	ug/L
2,4,6-Trichloro- phenol	ND	10	ug/L
Dibenzo(a,h)anthracene	ND	10	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	40	(35 - 95 )
2-Fluorophenol	26	(14 - 66 )
2,4,6-Tribromophenol	57	(41 - 102)
Nitrobenzene-d5	42	(34 - 93 )
Phenol-d5	18	(10 - 53 )
Terphenyl-d14	59	(39 - 95 )

**NOTE(S) :**

J Estimated result. Result is less than RL.



Semi-Volatile  
Certificate of Analysis  
Sample Summary

SDG Number: 190095	Date Collected: 07/23/2007 14:00	Matrix: WATER
Lab Sample ID: 190095001	Date Received: 07/24/2007 09:00	
Client Sample: Bldg 535 PCB	Client: BRKL005	Project: BRKL00504
Client ID: 24476-001	Method: EPA 625	SOP Ref: GL-OA-E-009
Batch ID: 654106	Inst: MSD1.I	Dilution: 1
Run Date: 08/02/2007 16:11	Analyst: CAK	Inj. Vol: .5 uL
Prep Date: 07/25/2007 17:26	Aliquot: 1050 mL	Final Volume: 1 mL
Data File: slh0137.d	Column: Phenomenex ZB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	N-Methyl-N-nitrosomethylamine	U	9.52	ug/L	1.90	9.52	10.0
108-95-2	Phenol	U	9.52	ug/L	0.952	9.52	10.0
95-57-8	2-Chlorophenol	U	9.52	ug/L	1.90	9.52	10.0
106-46-7	1,4-Dichlorobenzene	U	9.52	ug/L	1.90	9.52	10.0
621-64-7	N-Nitrosodipropylamine	U	9.52	ug/L	1.90	9.52	10.0
59-50-7	4-Chloro-3-methylphenol	U	9.52	ug/L	1.90	9.52	10.0
83-32-9	Acenaphthene	U	0.952	ug/L	0.295	0.952	10.0
121-14-2	2,4-Dinitrotoluene	U	9.52	ug/L	1.90	9.52	10.0
100-02-7	4-Nitrophenol	U	9.52	ug/L	1.90	9.52	50.0
87-86-5	Pentachlorophenol	U	9.52	ug/L	1.90	9.52	50.0
129-00-0	Pyrene	U	0.952	ug/L	0.286	0.952	10.0
111-44-4	bis(2-Chloroethyl) ether	U	9.52	ug/L	1.90	9.52	10.0
541-73-1	1,3-Dichlorobenzene	U	9.52	ug/L	1.90	9.52	10.0
95-50-1	1,2-Dichlorobenzene	U	9.52	ug/L	1.90	9.52	10.0
108-60-1	bis(2-Chloroisopropyl) ether	U	9.52	ug/L	1.90	9.52	10.0
67-72-1	Hexachloroethane	U	9.52	ug/L	1.90	9.52	10.0
98-95-3	Nitrobenzene	U	9.52	ug/L	2.86	9.52	10.0
78-59-1	Isophorone	U	9.52	ug/L	1.90	9.52	10.0
88-75-5	2-Nitrophenol	U	9.52	ug/L	1.90	9.52	10.0
105-67-9	2,4-Dimethylphenol	U	9.52	ug/L	1.90	9.52	10.0
111-91-1	bis(2-Chloroethoxy)methane	U	9.52	ug/L	2.86	9.52	10.0
120-83-2	2,4-Dichlorophenol	U	9.52	ug/L	1.90	9.52	10.0
91-20-3	Naphthalene	U	0.952	ug/L	0.286	0.952	10.0
87-68-3	Hexachlorobutadiene	U	9.52	ug/L	1.90	9.52	10.0
77-47-4	Hexachlorocyclopentadiene	U	9.52	ug/L	1.90	9.52	10.0
88-06-2	2,4,6-Trichlorophenol	U	9.52	ug/L	1.90	9.52	10.0
91-58-7	2-Chloronaphthalene	U	0.952	ug/L	0.333	0.952	10.0
131-11-3	Dimethylphthalate	U	9.52	ug/L	1.90	9.52	10.0
606-20-2	2,6-Dinitrotoluene	U	9.52	ug/L	1.90	9.52	10.0
208-96-8	Acenaphthylene	U	0.952	ug/L	0.190	0.952	10.0
51-28-5	2,4-Dinitrophenol	U	19.0	ug/L	9.52	19.0	50.0
84-66-2	Diethylphthalate	U	9.52	ug/L	1.90	9.52	10.0
86-73-7	Fluorene	U	0.952	ug/L	0.190	0.952	10.0
7005-72-3	4-Chlorophenylphenylether	U	9.52	ug/L	1.90	9.52	10.0
534-52-1	2-Methyl-4,6-dinitrophenol	U	9.52	ug/L	2.86	9.52	50.0
122-39-4	Diphenylamine	U	9.52	ug/L	2.86	9.52	10.0
101-55-3	4-Bromophenylphenylether	U	9.52	ug/L	1.90	9.52	10.0
118-74-1	Hexachlorobenzene	U	9.52	ug/L	1.90	9.52	10.0

Building 535 (PCB)  
Sampled 7/23/07

Semi-Volatile  
Certificate of Analysis  
Sample Summary

SDG Number: 190095	Date Collected: 07/23/2007 14:00	Matrix: WATER
Lab Sample ID: 190095001	Date Received: 07/24/2007 09:00	
Client Sample: Bldg 535 PCB	Client: BRKL005	Project: BRKL00504
Client ID: 24476-001	Method: EPA 625	SOP Ref: GL-OA-E-009
Batch ID: 654106	Inst: MSD1.I	Dilution: 1
Run Date: 08/02/2007 16:11	Analyst: CAK	Inj. Vol: .5 uL
Prep Date: 07/25/2007 17:26	Aliquot: 1050 mL	Final Volume: 1 mL
Data File: slh0137.d	Column: Phenomenex ZB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
85-01-8	Phenanthrene	U	0.952	ug/L	0.190	0.952	10.0
120-12-7	Anthracene	U	0.952	ug/L	0.190	0.952	10.0
84-74-2	Di-n-butylphthalate	U	9.52	ug/L	1.90	9.52	10.0
206-44-0	Fluoranthene	U	0.952	ug/L	0.190	0.952	10.0
85-68-7	Butylbenzylphthalate	U	9.52	ug/L	1.90	9.52	10.0
56-55-3	Benzo(a)anthracene	U	0.952	ug/L	0.190	0.952	10.0
91-94-1	3,3'-Dichlorobenzidine	U	9.52	ug/L	0.952	9.52	40.0
218-01-9	Chrysene	U	0.952	ug/L	0.190	0.952	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	2.25	ug/L	1.90	9.52	10.0
117-84-0	Di-n-octylphthalate	U	9.52	ug/L	2.86	9.52	10.0
205-99-2	Benzo(b)fluoranthene	U	0.952	ug/L	0.190	0.952	10.0
207-08-9	Benzo(k)fluoranthene	U	0.952	ug/L	0.190	0.952	10.0
50-32-8	Benzo(a)pyrene	U	0.952	ug/L	0.190	0.952	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.952	ug/L	0.190	0.952	10.0
53-70-3	Dibenzo(a,h)anthracene	U	0.952	ug/L	0.190	0.952	10.0
191-24-2	Benzo(ghi)perylene	U	0.952	ug/L	0.190	0.952	10.0
120-82-1	1,2,4-Trichlorobenzene	U	9.52	ug/L	1.90	9.52	10.0



METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 190095

METHOD TYPE: SW846

SAMPLE ID: 190095001

CLIENT ID: 24476-001

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 24-JUL-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	68	ug/L	U		P	68	1	TRACE2	072707-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	TRACE2	072707-1
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070801-3
7440-39-3	Barium	23.8	ug/L	B		P	1	1	TRACE2	072707-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-70-2	Calcium	6460	ug/L			P	30	1	TRACE2	072707-1
7440-47-3	Chromium	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-50-8	Copper	295	ug/L			P	3	1	TRACE2	072707-1
7439-89-6	Iron	64.3	ug/L	B		P	25	1	TRACE2	072707-1
7439-92-1	Lead	5.4	ug/L	B		MS	0.5	1	ICPMS5	070801-3
7439-95-4	Magnesium	2640	ug/L	B		P	85	1	TRACE2	072707-1
7439-96-5	Manganese	32.3	ug/L			P	2	1	TRACE2	072707-1
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	080207W1-2
7440-02-0	Nickel	9.4	ug/L	B		P	1	1	TRACE2	072707-1
7440-09-7	Potassium	836	ug/L	B		P	50	1	TRACE2	072707-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS5	070801-3
7440-22-4	Silver	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-23-5	Sodium	20600	ug/L			P	45	1	TRACE2	072707-1
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	070801-3
7440-31-5	Tin	152	ug/L			P	2.5	1	TRACE2	072707-1
7440-62-2	Vanadium	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-66-6	Zinc	42	ug/L			P	2	1	TRACE2	072707-1

Building 535 (PCB)  
Sampled 7/23/07





**Volatile  
Certificate of Analysis  
Sample Summary**

SDG Number: 189335	Date Collected: 07/10/2007 10:33	Matrix: WATER
Lab Sample ID: 189335003	Date Received: 07/11/2007 09:15	
Client Sample: HN	Client: BRKL005	Project: BRKL00504
Client ID: 24431-003	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 650612	Inst: VOA7.I	Dilution: 1
Run Date: 07/13/2007 05:00	Analyst: ACJ	Purge Vol: 5 mL
Prep Date: 07/13/2007 05:00		
Data File: 7s449.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.500	1.00	
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00	
75-00-3	Chloroethane	U	1.00	ug/L	0.500	1.00	
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.310	1.00	
75-05-8	Acetonitrile	U	25.0	ug/L	6.25	25.0	
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00	
75-09-2	Methylene chloride	U	2.00	ug/L	2.00	2.00	5.00
1634-04-4	tert-Butyl methyl ether	U	5.00	ug/L	0.250	5.00	
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.300	1.00	
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.250	1.00	
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00	
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00	
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00	
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00	
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.250	1.00	
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.250	1.00	
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	

outfall 002 (HN)  
sampled 7/10/07  
Grab

# GEL LABORATORIES LLC

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

## Certificate of Analysis

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

Report Date: September 27, 2007

Contact: Mr. John Burke  
Project: ES SPDES--Summary

Client Sample ID: 24757-003  
Sample ID: 193162003  
Matrix: Water  
Collect Date: 05-SEP-07 13:40  
Receive Date: 06-SEP-07 09:30  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24757  
Samp Recv.:  
Client Desc.: HN

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	J	1.64	1.35	4.83	mg/L		JXT1 09/13/07	1019	682663	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 002 (HN)  
Sampled 9/5/07



# CHEMTEX

Environmental & Industrial Hygiene Services

3082 25<sup>th</sup> Street, Port Arthur, TX 77642

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

e-mail: [chemtexpa@sbcglobal.net](mailto:chemtexpa@sbcglobal.net)

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

Attn: **Mr. B. Lee**

Report Date: 08/06/07

**AIHA** Laboratory # 101478

**nelap** certificate # T104704239-06-TX

RESULTS OF ANALYSIS  
PROJECT: ES SPDES

outfall 002 (HN)  
 sampled 7/16/07

ATTACHMENT 1

COC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes				
24445	HN	W	P7070492	07/16/07	09:55	07/17/07		P7070490	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	07/17/07	EPA 365.3	P7070492							
	Inorganic Phosphorus	0.05		0.05	mg/l	07/17/07	EPA 365.3								
	Total Phosphorus	0.08		0.05	mg/l	07/17/07	EPA 365.3								
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	07/25/07	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

Facilities are also available at:  
 5544 Leopard Street, Corpus Christi, Tx 78408 (361) 299-9900 FAX (361) 299-1155  
 138 Cities Services Hwy. Sulphur, LA 70663 (337) 626-2121 FAX (337) 626-2126

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 189335

METHOD TYPE: SW846

SAMPLE ID: 189335003

CLIENT ID: 24431-003

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 11-JUL-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	79.1	ug/L	B		P	68	1	TRACE2	072407-1
7440-36-0	Antimony	5.6	ug/L	B		P	3	1	TRACE2	072407-1
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS6	070724-4
7440-39-3	Barium	24.7	ug/L	B		P	1	1	TRACE2	072407-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-70-2	Calcium	15300	ug/L			P	30	1	TRACE2	072407-1
7440-47-3	Chromium	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-50-8	Copper	10.9	ug/L	B		P	3	1	TRACE2	072407-1
7439-89-6	Iron	172	ug/L			P	25	1	TRACE2	072407-1
7439-92-1	Lead	0.790	ug/L	B		MS	0.5	1	ICPMS6	070724-4
7439-95-4	Magnesium	3950	ug/L	B		P	85	1	TRACE2	072407-1
7439-96-5	Manganese	13.1	ug/L	B		P	2	1	TRACE2	072407-1
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER179	072507W2-3
7440-02-0	Nickel	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-09-7	Potassium	1930	ug/L	B		P	50	1	TRACE2	072407-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS6	070724-4
7440-22-4	Silver	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-23-5	Sodium	40000	ug/L			P	45	1	TRACE2	072607-2
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS6	070724-4
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	TRACE2	072407-1
7440-62-2	Vanadium	1.3	ug/L	B		P	1	1	TRACE2	072407-1
7440-66-6	Zinc	36	ug/L			P	2	1	TRACE2	072407-1

outfall 002 (HN)  
sampled 7/10/07



METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 189335

METHOD TYPE: SW846

SAMPLE ID: 189335004

CLIENT ID: 24431-004

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 11-JUL-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	68	ug/L	U		P	68	1	TRACE2	072407-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	TRACE2	072407-1
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS6	070724-4
7440-39-3	Barium	23.9	ug/L	B		P	1	1	TRACE2	072407-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-70-2	Calcium	15200	ug/L			P	30	1	TRACE2	072407-1
7440-47-3	Chromium	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-48-4	Cobalt	6.9	ug/L	B		P	1	1	TRACE2	072407-1
7440-50-8	Copper	6.1	ug/L	B		P	3	1	TRACE2	072407-1
7439-89-6	Iron	54.1	ug/L	B		P	25	1	TRACE2	072407-1
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS6	070724-4
7439-95-4	Magnesium	3890	ug/L	B		P	85	1	TRACE2	072407-1
7439-96-5	Manganese	18	ug/L			P	2	1	TRACE2	072407-1
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER179	072507W2-3
7440-02-0	Nickel	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-09-7	Potassium	1930	ug/L	B		P	50	1	TRACE2	072407-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS6	070724-4
7440-22-4	Silver	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-23-5	Sodium	39400	ug/L			P	45	1	TRACE2	072607-2
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS6	070724-4
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	TRACE2	072407-1
7440-62-2	Vanadium	1	ug/L	U		P	1	1	TRACE2	072407-1
7440-66-6	Zinc	31.9	ug/L			P	2	1	TRACE2	072407-1

Outfall 002 (HN) - filtered  
sampled 7/10/07

# GEL LABORATORIES LLC

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

## Certificate of Analysis

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

Report Date: October 6, 2007

Contact: Mr. John Burke  
Project: **ES SPDES--Summary**

Client Sample ID: 24777-001  
Sample ID: 193546001  
Matrix: W  
Collect Date: 11-SEP-07 11:50  
Receive Date: 12-SEP-07 09:30  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24777  
Samp Recv.:  
Client Desc.: 1004/1002

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	J	4.56	1.64	5.85	mg/L		JXT1 09/19/07	0901	684613	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 002B (1004/1002)  
sampled 9/11/07



# CHEMTEX

Environmental & Industrial Hygiene Services

3082 25<sup>th</sup> Street, Port Arthur, TX 77642

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

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

Report Date: 08/06/07

**AIHA** Laboratory # 101478

**nelap** certificate # T104704239-06-TX

RESULTS OF ANALYSIS  
PROJECT: ES SPDES

*Outfall 002B(1004/1002)  
 Sampled 7/18/07*

ATTACHMENT 1

COC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes				
24460	1004/1002	W	Surface Water	07/18/07	12:30	07/20/07		P7070652	0						
Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_date	Dilution	Lab_qual	Lab_QCnotes	Rev_qual	Rev_conc	Rev_QCnotes
	H E D P as Organic Phosphorus	< 0.05		0.05	mg/l	07/20/07	EPA 365.3	P7070652							
	Inorganic Phosphorus	< 0.05		0.05	mg/l	07/20/07	EPA 365.3								
	Total Phosphorus	< 0.05		0.05	mg/l	07/20/07	EPA 365.3								
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	07/25/07	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:  
 5544 Leopard Street, Corpus Christi, TX 78408 (361) 299-9900 FAX: (361) 299-1155  
 138 Cities Services Hwy. Sulphur, LA 70663 (337) 626-2121 FAX: (337) 626-2126

# GEL LABORATORIES LLC

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

## Certificate of Analysis

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

Report Date: September 27, 2007

Contact: Mr. John Burke  
Project: **ES SPDES--Summary**

Client Sample ID: 24757-004  
Sample ID: 193162004  
Matrix: Water  
Collect Date: 05-SEP-07 14:05  
Receive Date: 06-SEP-07 09:30  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24757  
Samp Recv.:  
Client Desc.: HS

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	U	1.30	1.40	5.00	mg/L		JXT1 09/13/07	1019	682663	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 005 (HS)  
Sampled 9/5/07



# CHEMTEX

Environmental & Industrial Hygiene Services

3082 25<sup>th</sup> Street, Port Arthur, TX 77642

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

e-mail: [chemtexpa@sbcglobal.net](mailto:chemtexpa@sbcglobal.net)

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

Attn: **Mr. B. Lee**

Report Date: 08/06/07

**AIHA** Laboratory # 101478

**nelap** certificate # T104704239-06-TX

RESULTS OF ANALYSIS  
PROJECT: ES SPDES

Outfall 005 (HS)  
 Sampled 7/16/07

ATTACHMENT 1

COC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes				
24445	HS	W	P7070493	07/16/07	10:32	07/17/07		P7070490	0						
Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_date	Dilution	Lab_qual	Lab_QCnotes	Rev_qual	Rev_conc	Rev_QCnotes
	H E D P as Organic Phosphorus	< 0.05/ < 0.05*		0.05	mg/l	07/17/07	EPA 365.3	P7070493							
	Inorganic Phosphorus	< 0.05/ < 0.05*		0.05	mg/l	07/17/07	EPA 365.3								
	Total Phosphorus	0.06/ 0.06*		0.05	mg/l	07/17/07	EPA 365.3								
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	07/25/07	SOP # O121-049								
	* Duplicate Analysis														

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  
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 5544 Leopard Street, Corpus Christi, Tx 78408  
 138 Cities Services Hwy. Sulphur, LA 70663

(361)299-9900 FAX (361)299-1155  
 (337)626-2121 FAX (337)626-2126

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 189335

METHOD TYPE: SW846

SAMPLE ID: 189335005

CLIENT ID: 24431-005

CONTRACT: BRKL00504

MATRIX:W

DATE RECEIVED 11-JUL-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>MDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7440-50-8	Copper	3	ug/L			P	3	1	TRACE2	072407-1

Outfall 005 (HS)  
Sampled 7/10/07



# GEL 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: Mr. John Burke  
Project: **ES SPDES--Summary**

Report Date: September 27, 2007

Client Sample ID: 24757-001  
Sample ID: 193162001  
Matrix: Water  
Collect Date: 05-SEP-07 13:55  
Receive Date: 06-SEP-07 09:30  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24757  
Samp Recv.:  
Client Desc.: HTW

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	J	1.86	1.37	4.89	mg/L		JXT1 09/13/07	1019	682663	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 006A (HT-w)  
Sampled 9/5/07

# CHEMTEX

Environmental & Industrial Hygiene Services

3082 25<sup>th</sup> Street, Port Arthur, TX 77642

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

e-mail: [chemtexpa@sbcglobal.net](mailto:chemtexpa@sbcglobal.net)

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

Report Date: 08/06/07

Attn: *Mr. B. Lee*

**AIHA** Laboratory # 101478

**nelap** certificate # T104704239-06-TX

RESULTS OF ANALYSIS

PROJECT: ES SPDES

ATTACHMENT 1

*Outfall 006A (HT-W)  
 Sampled 7/16/07*

COC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes				
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
24445	HT-W	W	P7070490	07/16/07	10:14	07/17/07		P7070490	0						
	H E D P as Organic Phosphorus	< 0.05		0.05	mg/l	07/17/07	EPA 365.3	P7070490							
	Inorganic Phosphorus	0.09		0.05	mg/l	07/17/07	EPA 365.3								
	Total Phosphorus	0.13		0.05	mg/l	07/17/07	EPA 365.3								
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	07/25/07	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:  
 5544 Leopard Street, Corpus Christi, Tx 78408 (361)299-9900 FAX (361)299-1155  
 138 Cities Services Hwy. Sulphur, LA 70663 (337)626-2121 FAX (337)626-2126

# GEL LABORATORIES LLC

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

## Certificate of Analysis

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

Report Date: September 27, 2007

Contact: Mr. John Burke  
Project: **ES SPDES--Summary**

Client Sample ID: 24757-002  
Sample ID: 193162002  
Matrix: Water  
Collect Date: 05-SEP-07 13:50  
Receive Date: 06-SEP-07 09:30  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24757  
Samp Recv.:  
Client Desc.: HTE

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	U	1.10	1.40	5.00	mg/L		JXT1 09/13/07	1019	682663	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 006B (HT-E)  
Sampled 9/5/07



# CHEMTEX

Environmental & Industrial Hygiene Services

3082 25<sup>th</sup> Street, Port Arthur, TX 77642

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

e-mail: [chemtexpa@sbcglobal.net](mailto:chemtexpa@sbcglobal.net)

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

Report Date: 08/06/07

Attn: **Mr. B. Lee**

**AIHA** Laboratory # 101478

**nelap** certificate # T104704239-06-TX

RESULTS OF ANALYSIS

PROJECT: ES SPDES

Outfall 006B (HT-E)  
 Sampled 7/16/07

ATTACHMENT I

COC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes				
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
24445	HT-E	W	P7070491	07/16/07	10:06	07/17/07		P7070490	0						
	H E D P as Organic Phosphorus	< 0.05		0.05	mg/l	07/17/07	EPA 365.3	P7070491							
	Inorganic Phosphorus	0.08		0.05	mg/l	07/17/07	EPA 365.3								
	Total Phosphorus	0.11		0.05	mg/l	07/17/07	EPA 365.3								
	Tolyltriazole(TTA)	< 0.005		0.005	mg/l	07/25/07	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

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

(361) 299-9900 FAX (361) 299-1155  
 (337) 626-2121 FAX (337) 626-2126



**Volatile**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 193744	Date Collected: 09/11/2007 15:00	Matrix: W
Lab Sample ID: 193744002	Date Received: 09/14/2007 09:45	
Client Sample: HW	Client: BRKL005	Project: BRKL00504
Client ID: 24778-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 685186	Inst: VOA2.I	Dilution: 1
Run Date: 09/20/2007 16:47	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 09/20/2007 16:47		
Data File: 2e421.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.500	1.00	10.0
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	10.0
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00	10.0
75-00-3	Chloroethane	U	1.00	ug/L	0.500	1.00	10.0
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.310	1.00	5.00
75-05-8	Acetonitrile	U	25.0	ug/L	6.25	25.0	
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00	5.00
75-09-2	Methylene chloride	U	2.00	ug/L	2.00	2.00	5.00
1634-04-4	tert-Butyl methyl ether	U	5.00	ug/L	0.250	5.00	10.0
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	5.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	5.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	5.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.300	1.00	5.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.250	1.00	5.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	5.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	5.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00	5.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	5.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	5.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00	10.0
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00	5.00
108-88-3	Toluene	J	0.552	ug/L	0.250	1.00	5.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/L	0.250	1.00	5.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	5.00
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.250	1.00	5.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.250	1.00	5.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	5.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	5.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	5.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	5.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	5.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	5.00

Outfall 008(HW)  
Sampled 9/11/07

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 189897

METHOD TYPE: SW846

SAMPLE ID: 189897002

CLIENT ID: 24453-002

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 19-JUL-07

LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	188	ug/L	B		P	68	1	TRACE2	072707-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	TRACE2	072707-1
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070801-4
7440-39-3	Barium	3.1	ug/L	B		P	1	1	TRACE2	072707-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-70-2	Calcium	3620	ug/L	B		P	30	1	TRACE2	072707-1
7440-47-3	Chromium	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-48-4	Cobalt	4.1	ug/L	B		P	1	1	TRACE2	072707-1
7440-50-8	Copper	3.7	ug/L	B		P	3	1	TRACE2	072707-1
7439-89-6	Iron	124	ug/L			P	25	1	TRACE2	072707-1
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	070801-4
7439-95-4	Magnesium	764	ug/L	B		P	85	1	TRACE2	072707-1
7439-96-5	Manganese	10.6	ug/L	B		P	2	1	TRACE2	072707-1
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	073007W1-2
7440-02-0	Nickel	2.2	ug/L	B		P	1	1	TRACE2	072707-1
7440-09-7	Potassium	736	ug/L	B		P	50	1	TRACE2	072707-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS5	070801-4
7440-22-4	Silver	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-23-5	Sodium	1650	ug/L	B		P	45	1	TRACE2	072707-1
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	070801-4
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	TRACE2	072707-1
7440-62-2	Vanadium	2	ug/L	B		P	1	1	TRACE2	072707-1
7440-66-6	Zinc	13.3	ug/L	B		P	2	1	TRACE2	072707-1

OUTFALL 008  
Filtered



# GEL 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: Mr. John Burke  
Project: ES SPDES--Summary

Report Date: October 8, 2007

Client Sample ID: 24778-002  
Sample ID: 193744003  
Matrix: W  
Collect Date: 11-SEP-07 15:00  
Receive Date: 14-SEP-07 09:45  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24778  
Samp Recv.:  
Client Desc.: HW

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	J	1.41	1.41	5.05	mg/L		JXT1 10/01/07	0721	688174	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

outfall 008 (HW)  
Sampled 9/11/07

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 189896

METHOD TYPE: SW846

SAMPLE ID: 189896002

CLIENT ID: 24451-002

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 19-JUL-07

LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	68	ug/L	U		P	68	1	TRACE2	072707-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	TRACE2	072707-1
7440-38-2	Arsenic	1.5	ug/L	U		MS	1.5	1	ICPMS5	070801-4
7440-39-3	Barium	2.8	ug/L	B		P	1	1	TRACE2	072707-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-70-2	Calcium	2960	ug/L	B		P	30	1	TRACE2	072707-1
7440-47-3	Chromium	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-48-4	Cobalt	6.7	ug/L	B		P	1	1	TRACE2	072707-1
7440-50-8	Copper	3.1	ug/L	B		P	3	1	TRACE2	072707-1
7439-89-6	Iron	47.2	ug/L	B		P	25	1	TRACE2	072707-1
7439-92-1	Lead	0.830	ug/L	B		MS	0.5	1	ICPMS5	070801-4
7439-95-4	Magnesium	471	ug/L	B		P	85	1	TRACE2	072707-1
7439-96-5	Manganese	16.1	ug/L			P	2	1	TRACE2	072707-1
7439-97-6	Mercury	0.030	ug/L	U		AV	0.03	1	MER536	073007W1-2
7440-02-0	Nickel	3.4	ug/L	B		P	1	1	TRACE2	072707-1
7440-09-7	Potassium	1320	ug/L	B		P	50	1	TRACE2	072707-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS5	070801-4
7440-22-4	Silver	1	ug/L	U		P	1	1	TRACE2	072707-1
7440-23-5	Sodium	1040	ug/L	B		P	45	1	TRACE2	072707-1
7440-28-0	Thallium	0.30	ug/L	U		MS	0.3	1	ICPMS5	070801-4
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	TRACE2	072707-1
7440-62-2	Vanadium	6.1	ug/L	B		P	1	1	TRACE2	072707-1
7440-66-6	Zinc	9.2	ug/L	B		P	2	1	TRACE2	072707-1

OUT Fall 010

Filtered



# GEL LABORATORIES LLC

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

## Certificate of Analysis

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

Report Date: October 8, 2007

Contact: Mr. John Burke  
Project: ES SPDES--Summary

Client Sample ID: 24778-003  
Sample ID: 193744004  
Matrix: W  
Collect Date: 11-SEP-07 15:20  
Receive Date: 14-SEP-07 09:45  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 24778  
Samp Recv.:  
Client Desc.: CSF-Outfall

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>										
<i>EPA 1664A n-Hexane Extractable Material (Oil and G</i>										
Oil and Grease	U	0.606	1.41	5.05	mg/L		JXT1 10/01/07	0721	688174	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 010 (CSF)  
Sampled 9/14/07