



December 22, 2009

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 November 2009**

In accordance with our modified SPDES permit (NY-0005835), enclosed as Attachment I, please find the DMR for the month of November 2009. 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 tolyltriazole, 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.

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

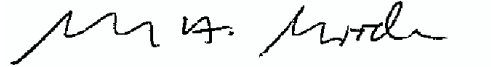
Collection and analysis of these samples are performed in accordance with the BNL Quality Assurance (QA) Program that specifies the standard operating procedures for collection and analysis of samples, QA data requirements, validation of contractor analytical data, and QA inspections performed periodically 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 November 2009.



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 Protection Division Manager

- Attachment I: Discharge Monitoring Report for November 2009.
- Attachment II: Analytical Results from H2M Labs Inc. and General Engineering Laboratories, LLC for samples collected on 11/2/09 and 11/4/09 from Outfall 001 (BNL Use Only).
- Attachment III: Analytical Results from General Engineering Laboratories for samples collected from Outfalls 002, 002B, 005, 006A, and 006B (BNL Use Only).

GAG/JR:mjt

- cc: M. Bebon, w/o Attachments  
G. Goode, w/o Attachments  
M. Holland, w/o Attachments  
A. Ackerman, w/all Attachments  
E. Lessard, w/ all Attachments  
E. Murphy, w/ all Attachments  
J. Remien, w/ all Attachments  
B. O'Brian, NYSDEC, w/ Attachment I  
C. Parnell, w/o Attachments
- 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.09

**Brookhaven National Laboratory**  
**SPDES Permit No. NY0005835**  
**Discharge Monitoring Report for November 2009**  
**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. Since flow records are maintained on a weekly or monthly basis, the flow rate provided is the daily average.
3. There was no discharge at Outfall 008 during this monitoring period.
4. There was no discharge at Outfall 010 during this monitoring period.

**ATTACHMENT I**

**BROOKHAVEN NATIONAL LABORATORY**

**SPDES PERMIT NO. NY0005835**

**DISCHARGE MONITORING REPORT FOR NOVEMBER 2009**

**FOR OUTFALLS NO. 001 – 010**

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

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

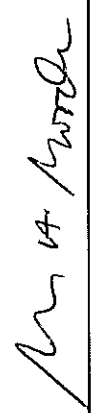
NAME U S O E  
ADDRESS 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

NY0005835 001-M  
PERMIT NUMBER DISCHARGE NUMBER

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

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
FROM 11/01/2009 TO 11/30/2009

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
Temperature, water deg. Fahrenheit	*****	*****	*****	*****	59		0	01/01	GR
00011 1 0 Effluent Gross	*****	*****	*****	*****	90 DAILY MX	deg.F		Daily	GRAB
BOD, 5-day, 20 deg. C	*****	*****	*****	*****	<2		0	02/30	24
00310 1 0 Effluent Gross	*****	*****	*****	*****	5 DAILY MX	mg/L		Monthly	COMP24
pH	*****	*****	*****	*****	6.4		0	01/01	GR
00400 1 0 Effluent Gross	*****	*****	*****	*****	5.8 MINIMUM	SU		Daily	GRAB
Solids, total suspended	*****	*****	*****	*****	1.1		0	02/30	24
00530 1 0 Effluent Gross	*****	*****	*****	*****	20 DAILY MX	mg/L		Monthly	COMP24
Solids, settleable	*****	*****	*****	*****	0.0		0	01/01	GR
00545 1 0 Effluent Gross	*****	*****	*****	*****	0.1 DAILY MX	mL/L		Daily	GRAB
Nitrogen, total (as N)	*****	*****	*****	*****	6		0	02/30	24
00600 1 0 Effluent Gross	*****	*****	*****	*****	10 DAILY MX	mg/L		Monthly	COMP24
Nitrogen, ammonia total (as N)	*****	*****	*****	*****	<0.1		0	02/30	24
00610 1 0 Effluent Gross	*****	*****	*****	*****	1.5 DAILY MX	mg/L		Monthly	COMP24
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental Protection Division	TELEPHONE 631-344-4549 DATE 12/23/2009 Arm Code   Number MMDDYYYY								
Typed or Printed	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 								

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
PARAMETER HEDP IS NEW FOR THIS OUTFALL PLEASE PLACE ITS VALUES UNDER THE PARAMETER LINE 1-HYDROXYETHYLENE UNTIL PARAMETER CODE 1, 1-DIPHOSPHONIC ACID IS ADDED TO DATABASE.

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

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

NAME U S D O E  
 ADDRESS 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

NY0005935 PERMIT NUMBER DISCHARGE NUMBER 001-M  
 DMR MAILING ZIP CODE: 11973  
 MAJOR (SUBR 01)  
 PROCESS SANIT & STORMWTR RNOFF External Outfall

MONITORING PERIOD  
 FROM 11/01/2009 TO 11/30/2009

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	UNITS	VALUE	UNITS	UNITS			
Phosphorus, total (as P)	*****	*****	*****	*****	*****	*****	0	02/30	24
00665 1 0 Effluent Gross Cyanide, total (as CN)	*****	*****	*****	*****	*****	*****	0	Monthly	COMP24
00720 1 0 Effluent Gross Copper, total (as Cu)	*****	*****	*****	*****	*****	*****	0	02/30	GR
01042 1 0 Effluent Gross Iron, total (as Fe)	*****	*****	*****	*****	*****	*****	0	Twice Per Month	GRAB
01045 1 0 Effluent Gross Lead, total (as Pb)	*****	*****	*****	*****	*****	*****	0	02/30	24
01051 1 0 Effluent Gross Nickel, total (as Ni)	*****	*****	*****	*****	*****	*****	0	Monthly	COMP24
01067 1 0 Effluent Gross Silver, total (as Ag)	*****	*****	*****	*****	*****	*****	0	02/30	24
01077 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	0	02/30	24
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			*****			0	02/30	24
George A. Goode Division Manager Environmental Protection Division	*****			*****			0	02/30	24
Typed or Printed	*****			*****			0	02/30	24
TELEPHONE	*****			*****			0	02/30	24
631-344-4549	*****			*****			0	02/30	24
Area Code   Number	*****			*****			0	02/30	24
MM/DD/YYYY	*****			*****			0	02/30	24
11/01/2009	*****			*****			0	02/30	24
TO	*****			*****			0	02/30	24
11/30/2009	*****			*****			0	02/30	24
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	*****			*****			0	02/30	24
<i>Michael Holland</i>	*****			*****			0	02/30	24
DATE	*****			*****			0	02/30	24
12/23/2009	*****			*****			0	02/30	24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 PARAMETER HEDP IS NEW FOR THIS OUTFALL PLEASE PLACE ITS VALUES UNDER THE PARAMETER LINE 1-HYDROXYETHYLENE UNTIL PARAMETER CODE 1,1-DIPHOSPHONIC ACID IS ADDED TO DATABASE

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

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

NAME U S O E  
ADDRESS 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 001-M  
PERMIT NUMBER DISCHARGE NUMBER

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

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
FROM 11/01/2009 TO 11/30/2009

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
Zinc, total (as Zn)	*****	*****	*****	*****	0.04		0	02/30	24
01092 1 0 Effluent Gross	*****	*****	*****	*****	0.1 DAILY MX	mg/L	0	Monthly	COMP24
Toluene	*****	*****	*****	*****	<1		0	02/30	GR
34010 1 0 Effluent Gross	*****	*****	*****	*****	5 DAILY MX	ug/L	0	Twice Per Month	GRAB
Methylene chloride	*****	*****	*****	*****	<2		0	02/30	GR
34423 1 0 Effluent Gross	*****	*****	*****	*****	5 DAILY MX	ug/L	0	Twice Per Month	GRAB
1, 1, 1 - Trichloroethane	*****	*****	*****	*****	<1		0	02/30	GR
34506 1 0 Effluent Gross	*****	*****	*****	*****	5 DAILY MX	ug/L	0	Twice Per Month	GRAB
Flow, in conduit or thru treatment plant	0.29	*****	*****	*****	*****	*****	0	99/99	RC
50050 1 0 Effluent Gross	Req. Mon. DAILY AV	2.3 DAILY MX	*****	*****	*****	*****	0	Continuous	RCORDR
Mercury, total (as Hg)	*****	*****	*****	*****	77		0	02/30	24
71900 1 0 Effluent Gross	*****	*****	*****	*****	200 DAILY MX	ng/L	0	Monthly	COMP24
Coliform, fecal general	*****	*****	*****	*****	<2		0	02/30	GR
74055 1 0 Effluent Gross	*****	*****	*****	*****	200 DAILY AV	#/100mL	0	Monthly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Identify 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								
George A. Goode Division Manager Environmental Protection Division	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT								
Typed or Printed	DATE								
	631-344-4549 12/23/2009								
	Area Code   Number MMDDYYYY								

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
PARAMETER HEDP IS NEW FOR THIS OUTFALL PLEASE PLACE ITS VALUES UNDER THE PARAMETER LINE 1-HYDROXYETHYLIDENE UNTIL PARAMETER CODE 1, 1-DIPHOSPHONIC ACID IS ADDED TO DATABASE.

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

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

NAME U S D O E  
ADDRESS 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

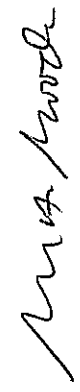
PERMIT NUMBER NY0005835  
DISCHARGE NUMBER 001-M

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

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
FROM 11/01/2009 TO 11/30/2009

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	UNITS	VALUE	UNITS	UNITS			
2 - Butanone	*****	*****	*****	*****	*****	*****	0	02/30	GR
78356 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	0	Twice Per Month	GRAB
BOD, 5-day, percent removal	*****	*****	*****	*****	*****	*****	0	01/30	CA
81010 K 0 Percent Removal	*****	*****	*****	*****	*****	*****	0	Monthly	CALCTD
Solids, suspended percent removal	*****	*****	*****	*****	*****	*****	0	01/30	CA
81011 K 0 Percent Removal	*****	*****	*****	*****	*****	*****	0	Monthly	CALCTD
1-Hydroxyethylene	*****	*****	*****	*****	*****	*****	0	01/30	24
85812 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	0	Monthly	COMP24
Toltriazole	*****	*****	*****	*****	*****	*****	0	01/30	24
85813 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	0	Monthly	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental Protection Division	TELEPHONE 631-344-4549	DATE 11/23/2009
		Area Code   Number MMDDYYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
PARAMETER HEDP IS NEW FOR THIS OUTFALL PLEASE PLACE ITS VALUES UNDER THE PARAMETER LINE 1-HYDROXYETHYLENE UNTIL PARAMETER CODE 1,1-DIPHOSPHONIC ACID IS ADDED TO DATABASE.

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

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

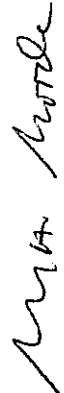
U S D O E  
53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
FACILITY BROOKHAVEN NATIONAL LABORATORY  
LOCATION 53 BELL AVENUE, BLDG 464  
UPTON, NY 11973  
ATTN: MICHAEL HOLLAND, OFFICE MGR

NY0005835	002-B
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 11/01/2009	TO 11/30/2009

DMR MAILING ZIP CODE: 11973  
MAJOR (SUBR 01)  
STORM WATER, NON-CONTACT COOLING W  
External Outfall

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
pH	*****	*****	7.7	*****	7.7	*****	0	01/30	GR
00400 1 0 Effluent Gross Oil & grease	*****	*****	Req. Mon. MINIMUM	*****	9 MAXIMUM	SU	0	Monthly	GRAB
00556 1 0 Effluent Gross	*****	*****	*****	*****	6.2	*****	0	01/30	GR
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	15 DAILY MX	mg/L	0	Monthly	GRAB
SEE NOTE #2	0.08	*****	*****	*****	*****	*****	0	04/30	RC
50050 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	0	Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental Protection Division	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	TELEPHONE 651-344-4549	DATE 12/23/2009
Typed or Printed		Area Code   Number	MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 			

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)**

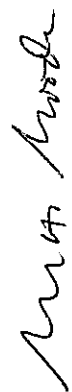
PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME U S D O E  
 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

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

PERMIT NUMBER NY0005835 002-M DISCHARGE NUMBER  
 MONITORING PERIOD FROM 11/01/2009 TO 11/30/2009  
 No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
pH	*****	*****	7.5	*****	8.0	*****	0	04/30	GR
00400 1 0 Effluent Gross Oil & grease	*****	*****	Req. Min. MINIMUM	*****	9 MAXIMUM	SU	0	Monthly	GRAB
00556 1 0 Effluent Gross Flow, in conduit or thru treatment plant	*****	*****	*****	*****	6.7	*****	0	01/30	GR
50050 1 0 Effluent Gross	0.05	*****	*****	*****	15 DAILY MX	mg/L	0	Monthly	GRAB
	Req. Mon. DAILY AV	*****	*****	*****	*****	*****	0	04/30	RC
		*****	*****	*****	*****	*****		Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Gooda Division Manager Environmental Protection 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	TELEPHONE 631-344-4549	DATE 12/23/2009
		Area Code   Number	MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 			

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS. SAMPLING FOR THIS OUTFALL SHALL BE CONDUCTED AT A LOCATION DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES WITH THE COOLING TOWER BLOWDOWN FROM THE STAR DETECTOR.

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

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

NAME U S D O E  
ADDRESS 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

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

NY0005835	005-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 11/01/2009	TO 11/30/2009

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
pH	*****	*****	7.5	*****	8.2	GR	0	04/30	GR
00400 1 0 Effluent Gross Oil & Grease	*****	*****	Req. Min: MINIMUM	*****	8.5 MAXIMUM	GRAB	0	Monthly	GRAB
00556 1 0 Effluent Gross	*****	*****	*****	*****	6.1	GR	0	01/30	GR
Flow, in conduit or thru treatment plant	0.31	*****	*****	*****	15 DAILY MX.	GRAB	0	Monthly	GRAB
50050 1 0 Effluent Gross	*****	Mgal/d	*****	*****	*****	RC	0	04/30	RC
	*****	*****	*****	*****	*****	RCORDR	0	Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goada Division Manager Environmental Protection Division	TELEPHONE 631-344-4559 Area Code   Number	DATE 12/23/2009 MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Michael Holland</i>		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

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

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
 NAME U S D O E  
 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

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

No Discharge

NY0005895 PERMIT NUMBER	007-M DISCHARGE NUMBER
FROM 11/01/2009	TO 11/30/2009

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate	240000		*****	*****	*****	*****	0	13/30	IN
00056 1 0 Effluent Gross	Req. Mon. DAILY/MX	gal/d	*****	*****	*****	*****		Monthly	INSTAN
pH	*****	*****	7.0	*****	7.0	*****	0	01/30	GR
00400 1 0 Effluent Gross	*****	*****	Req. Mon. MINIMUM	*****	9 MAXIMUM	SU		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental Protection 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	TELEPHONE	DATE
		631-344-4549	12/23/2009
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		Area Code   Number	MMDD/YYYY

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 DMF 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)

NAME U S D O E  
 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

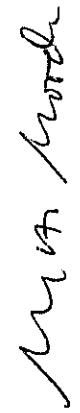
PERMIT NUMBER	NY0005835	DISCHARGE NUMBER	008-M
---------------	-----------	------------------	-------

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

MONITORING PERIOD	MM/DD/YYYY	TO	MM/DD/YYYY
	11/01/2009		11/30/2009

No Discharge

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
Flow rate	SEE NOTE #3	*****		*****		*****		0	01/30	IN
00056 1 0 Effluent Gross pH	SEE NOTE #3	*****	Req. Mon. DAILY/MX gal/d	*****	*****	*****	*****	0	Monthly	INSTAN
00400 1 0 Effluent Gross Oil & grease	SEE NOTE #3	*****	*****	*****	*****	Req. Mon. MINIMUM *****	8.5 MAXIMUM SU	0	01/30	GR
00556 1 0 Effluent Gross 1, 1 - Dichloroethylene	SEE NOTE #3	*****	*****	*****	*****	*****	15 DAILY/MX mg/L	0	01/30	GR
34501 1 0 Effluent Gross 1, 1, 1 - Trichloroethane	SEE NOTE #3	*****	*****	*****	*****	*****	5 DAILY/MX ug/L	0	01/30	GR
34506 1 0 Effluent Gross	SEE NOTE #3	*****	*****	*****	*****	*****	5 DAILY/MX ug/L	0	01/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental Protection Division	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 631-344-4549	DATE 12/23/2009
Typed or Printed		Area Code / Number MMDD/YYYY	

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 U S D O E  
 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

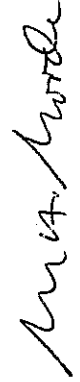
NY0005935 010-M  
 PERMIT NUMBER DISCHARGE NUMBER

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

MONITORING PERIOD  
 FROM 11/01/2009 TO 11/30/2009

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
Flow rate	*****		*****		*****		0	01/30	IN
00056 1 0 Effluent Gross	*****	Req. Mon. DAILY MX	*****	gal/d	*****			Monthly	INSTAN
pH	*****	*****	*****		*****		0	01/30	GR
00400 1 0 Effluent Gross	*****	*****	*****		*****	6.5 MAXIMUM		Monthly	GRAB
Oil & grease	*****	*****	*****		*****		0	01/30	GR
00556 1 0 Effluent Gross	*****	*****	*****		*****	15 DAILY MX		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental Protection 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 ensure that qualified personnel properly gather and evaluate the information submitted. Based on	TELEPHONE 631-344-4546	DATE 12/23/2009
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	Area Code   Number MM/DD/YYYY MM/DD/YYYY

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)

U S D O E  
 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

NY0005935 06A-M  
 PERMIT NUMBER DISCHARGE NUMBER

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

MONITORING PERIOD  
 MM/DD/YYYY TO MM/DD/YYYY  
 FROM 11/01/2009 TO 11/30/2009

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
pH	*****	*****	7.6	*****	*****	*****	0	04/30	GR
00400 1 0 Effluent Gross Oil & grease	*****	*****	Req. Min. MINIMUM	*****	9 MAXIMUM	SU	0	Once Per Month	GRAB
00556 1 0 Effluent Gross	*****	*****	*****	*****	7.0	*****	0	01/30	GR
Flow, in conduit or thru treatment plant	0.16	*****	*****	*****	15 DAILY.MX	mg/L	0	Once Per Month	GRAB
50050 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	0	04/30	RC
	Req. Min. DAILY.AV	*****	*****	*****	*****	*****		Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental Protection Division	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	TELEPHONE	DATE
		651-344-4549	12/23/2009
Typed or Printed	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Area Code   Number	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

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

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

NAME U S D O E  
 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

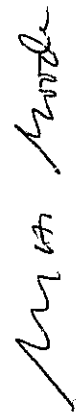
NY0005835 06B-M  
 PERMIT NUMBER DISCHARGE NUMBER

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

MONITORING PERIOD  
 FROM 11/01/2009 TO 11/30/2009

No Discharge

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
pH		*****	*****	*****	7.7	*****	8.2	0	04/30	GR
00400 1 0 Effluent Gross Oil & grease		*****	*****	*****	Req. Mon. MINIMUM	*****	9 MAXIMUM	0	Monthly	GRAB
00556 1 0 Effluent Gross		*****	*****	*****	*****	*****	6.0	0	01/30	GR
Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	15 DAILY MX	0	Monthly	GRAB
50050 1 0 Effluent Gross		0.02	*****	*****	*****	*****	*****	0	04/30	RC
		Req. Mon. DAILY/AV	*****	*****	*****	*****	*****		Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George A. Goode Division Manager Environmental Protection Division	TELEPHONE 631-344-4549 Area Code   Number	DATE 12/23/2009 MM/DD/YYYY
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		

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

**ATTACHMENT II**

**BROOKHAVEN NATIONAL LABORATORY**

**SPDES PERMIT NO. NY0005835**

**DISCHARGE MONITORING REPORT FOR NOVEMBER 2009**

**ANALYTICAL RESULTS FROM H2M LABS**

**AND GENERAL ENGINEERING LABORATORIES, LLC**

**FOR REGULATORY COMPLIANCE SAMPLES COLLECTED**

**11/2/09 and 11/4/09**

**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

For the submitted sample

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

Lab No. : **0911873-001**  
Client Sample ID. : 27967-001

Sample Information...  
Type : Aqueous

Origin:

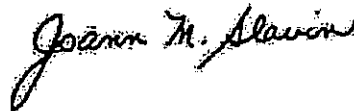
Collected : 11/2/2009 11:00:00 AM  
Received : 11/2/2009 3:15:00 PM  
Collected By CLIENT  
Copies To : Original  
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2		1	mg/L	SM5210B	11/04/2009 9:25 AM
Nitrogen, Total	5.10		1	mg/L	M4500-N C	11/11/2009
Nitrogen, Ammonia (As N)	< 0.10		1	mg/L	SM4500-NH3 H	11/11/2009 1:52 PM
Nitrite as N	< 0.01		1	mg/L	E353.2	11/03/2009 7:49 AM
Nitrate as N	3.45		10	mg/L	E353.2	11/03/2009 8:46 AM
Nitrogen, Kjeldahl, Total	1.65		1	mg/L	E351.2	11/11/2009 12:12 PM

Outfall 001  
Sampled 11/2/09  
24 hour composite

### Qualifiers:

- E - Value above quantitation range
- D - Results for Dilution
- D.F. = Dilution Factor
- H = Sample received/analyzed outside of analytical holding time
- # = ELAP / NELAP does not offer certification for this analyte



Laboratory Manager

Date Reported : 11/19/2009

Page 1 of 3

BNLS920 A18

# H2M LABS, INC.

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

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

## LABORATORY RESULTS

For the submitted sample

Lab No. : 0911968-001  
Client Sample ID. : 27978-001

Sample Information...  
Type : Aqueous

Origin:

Collected : 11/4/2009 10:05:00 AM  
Received : 11/4/2009 3:20:00 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	SM5210B	11/05/2009 12:00 PM
Nitrogen, Total	5.76		1	mg/L	M4500-N C	11/11/2009
Nitrogen, Ammonia (As N)	< 0.10		1	mg/L	SM4500-NH3 H	11/11/2009 1:53 PM
Nitrite as N	< 0.01		1	mg/L	E353.2	11/05/2009 8:40 AM
Nitrate as N	5.49		10	mg/L	E353.2	11/06/2009 9:04 AM
Nitrogen, Kjeldahl, Total	0.27		1	mg/L	E351.2	11/11/2009 12:55 PM

Outfall 001  
Sampled 11/4/09  
24 hour composite

### Qualifiers:

- E - Value above quantitation range
- D - Results for Dilution
- D.F. = Dilution Factor
- H = Sample received/analyzed outside of analytical holding time
- # = ELAP / NELAP does not offer certification for this analyte

*Joanna M. Slavine*

Laboratory Manager

Date Reported : 11/19/2009

Page 1 of 4

BNLS920 A21

# H2M LABS, INC.

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

## LABORATORY RESULTS

For the submitted sample

Lab No. : **0911873-002**  
Client Sample ID. : 27967-002

Sample Information...

Type : Aqueous

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

Origin:

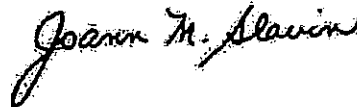
Collected : 11/2/2009 11:15:00 AM  
Received : 11/2/2009 3:15:00 PM  
Collected By CLIENT  
Copies To : Original  
CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	130		1	MPN	M9221 BC	11/02/2009 3:00 PM
Fecal Coliform	< 2		1	MPN	M9221 BC	11/02/2009 3:00 PM

Outfall 001  
Sampled 11/2/09  
Grab

### Qualifiers:

- E - Value above quantitation range
- D - Results for Dilution
- D.F. = Dilution Factor
- H = Sample received/analyzed outside of analytical holding time
- # = ELAP / NELAP does not offer certification for this analyte



Laboratory Manager

Date Reported : 11/19/2009

# H2M LABS, INC.

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

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

## LABORATORY RESULTS

For the submitted sample

Lab No. : **0911968-002**  
Client Sample ID. : 27978-002

Sample Information...  
Type : Aqueous

Origin:

Collected : 11/4/2009 10:25:00 AM  
Received : 11/4/2009 3:20:00 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>
Total Coliform	<2		1	MPN	M9221 BC	11/04/2009 4:00 PM
Fecal Coliform	<2		1	MPN	M9221 BC	11/04/2009 4:00 PM

Outfall 001  
Sampled 11/4/09  
Grab

### Qualifiers:

- E - Value above quantitation range
- D - Results for Dilution
- D.F. = Dilution Factor
- H = Sample received/analyzed outside of analytical holding time
- # = ELAP / NELAP does not offer certification for this analyte

*Joann M. Slavine*

Laboratory Manager

Date Reported : 11/19/2009

Page 2 of 4

BNLS920 A22

# H2M LABS, INC.

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

## LABORATORY RESULTS

For the submitted sample

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

Lab No. : **0911873-003**  
Client Sample ID. : 27967-003

Sample Information...  
Type : Aqueous

Origin:

Collected : 11/2/2009 11:40:00 AM  
Received : 11/2/2009 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	<10		1	mg/L	SM5210B	11/04/2009 9:30 AM

STP Influent  
Sampled 11/2/09  
24 hour composite

### Qualifiers:

- E - Value above quantitation range
- D - Results for Dilution
- D.F. = Dilution Factor
- H = Sample received/analyzed outside of analytical holding time
- # = ELAP / NELAP does not offer certification for this analyte

*Joann M. Slawin*

Laboratory Manager

Date Reported : 11/19/2009

Page 3 of 3

BNLS920 A20

# H2M LABS, INC.

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

## LABORATORY RESULTS

For the submitted sample

Lab No. : **0911968-003**  
Client Sample ID. : 27978-003

Sample Information...

Type : Aqueous

Origin:

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

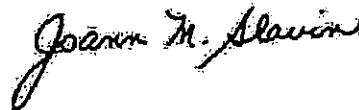
Collected : 11/4/2009 10:55:00 AM  
Received : 11/4/2009 3:20:00 PM  
Collected By CLIENT  
Copies To : Original  
CC

<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	24		1	mg/L	SM5210B	11/05/2009 12:10 PM

STP Influent  
Sampled 11/4/09  
24 hour composite

### Qualifiers:

- E - Value above quantitation range
- D - Results for Dilution
- D.F. = Dilution Factor
- H = Sample received/analyzed outside of analytical holding time
- # = ELAP / NELAP does not offer certification for this analyte



Laboratory Manager

Date Reported : 11/19/2009

Page 3 of 4

BNLS920 A23

# H2M LABS, INC.

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

## LABORATORY RESULTS

For the submitted sample

Lab No. : **0911968-004**

Client Sample ID. : 27978-004

Sample Information...

Type : Aqueous

Origin:

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

Collected : 11/4/2009  
Received : 11/4/2009 3:20:00 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	SM5210B	11/05/2009 12:15 PM

Blind Duplicate  
Sampled 11/4/09

### Qualifiers:

- E - Value above quantitation range
- D - Results for Dilution
- D.F. = Dilution Factor
- H = Sample received/analyzed outside of analytical holding time
- # = ELAP / NELAP does not offer certification for this analyte

*Joanna M. Slavine*

Laboratory Manager

Date Reported : 11/19/2009

Page 4 of 4

BNLS920 A24

Volatile  
Certificate of Analysis  
Sample Summary

SDG Number: 240204	Date Collected: 11/02/2009 11:15	Matrix: W
Lab Sample ID: 240204002	Date Received: 11/03/2009 08:45	
Client Sample: STP Effluent	Client: BRKL005	Project: BRKL00504
Client ID: 27968-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 919036	Inst: VOA2.I	Dilution: 1
Run Date: 11/04/2009 19:13	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 11/04/2009 19:13		
Data File: 110409V2.b\2K327.D	Column: DB-624	

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
74-87-3	Chloromethane	U	1.00	ug/L	0.300	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	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.300	1.00
67-64-1	Acetone	U	5.00	ug/L	1.50	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	0.325	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.300	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	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.300	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 11/2/09  
Grab

Volatile  
Certificate of Analysis  
Sample Summary

SDG Number: 240428	Date Collected: 11/04/2009 10:25	Matrix: WATER
Lab Sample ID: 240428002	Date Received: 11/05/2009 08:50	
Client Sample: STP Effluent	Client: BRKL005	Project: BRKL00504
Client ID: 27979-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 920969	Inst: VOA2.I	Dilution: 1
Run Date: 11/10/2009 19:15	Analyst: CDS1	Purge Vol: 5 mL
Prep Date: 11/10/2009 19:15		
Data File: 111009V2.b\2L227.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
74-87-3	Chloromethane	J	0.380	ug/L	0.300	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	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.300	1.00
67-64-1	Acetone	U	5.00	ug/L	1.50	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	0.325	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.300	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	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.300	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

Out fall 001  
Sampled 11/4/09  
Grab

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 240204

METHOD TYPE: SW846

SAMPLE ID: 240204001

CLIENT ID: 27968-001

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 03-NOV-09

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	OPTIMA3	111809-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	111809-1
7440-38-2	Arsenic	1.6	ug/L	U		MS	1.6	1	ICPMS4	091120-2
7440-39-3	Barium	15.3	ug/L	B		P	1	1	OPTIMA3	111809-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	111809-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	111809-1
7440-70-2	Calcium	11500	ug/L			P	50	1	OPTIMA3	111809-1
7440-47-3	Chromium	1.37	ug/L	B		P	1	1	OPTIMA3	111809-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	111809-1
7440-50-8	Copper	34.4	ug/L			P	3	1	OPTIMA3	111809-1
7439-89-6	Iron	180	ug/L			P	30	1	OPTIMA3	111809-1
7439-92-1	Lead	1.63	ug/L	B		MS	0.5	1	ICPMS4	091120-2
7439-95-4	Magnesium	3040	ug/L	B		P	85	1	OPTIMA3	111809-1
7439-96-5	Manganese	3.91	ug/L	B		P	2	1	OPTIMA3	111809-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	110509W1-3
7440-02-0	Nickel	3.04	ug/L	B		P	1.5	1	OPTIMA3	111809-1
7440-09-7	Potassium	4390	ug/L	B		P	50	1	OPTIMA3	111809-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS4	091120-2
7440-22-4	Silver	1.74	ug/L	B		P	1	1	OPTIMA3	111809-1
7440-23-5	Sodium	31300	ug/L			P	100	1	OPTIMA3	111809-1
7440-28-0	Thallium	0.425	ug/L	B		MS	0.3	1	ICPMS4	091120-2
7440-31-5	Tin	12.5	ug/L	U		P	12.5	5	OPTIMA3	111809-1
7440-62-2	Vanadium	2.47	ug/L	B		P	1	1	OPTIMA3	111809-1
7440-66-6	Zinc	37.9	ug/L			P	3.3	1	OPTIMA3	111809-1

Outfall 001  
Sampled 11/2/09  
24 hour composite

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 240428

METHOD TYPE: SW846

SAMPLE ID: 240428001

CLIENT ID: 27979-001

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 05-NOV-09

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	OPTIMA3	111809-2
7440-36-0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	111809-2
7440-38-2	Arsenic	1.6	ug/L	U		MS	1.6	1	ICPMS4	091120-3
7440-39-3	Barium	18.2	ug/L	B		P	1	1	OPTIMA1	120309A-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	111809-2
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	111809-2
7440-70-2	Calcium	16300	ug/L			P	50	1	OPTIMA3	111809-2
7440-47-3	Chromium	1.21	ug/L	B		P	1	1	OPTIMA3	111809-2
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	111809-2
7440-50-8	Copper	39.8	ug/L			P	3	1	OPTIMA3	111809-2
7439-89-6	Iron	166	ug/L			P	30	1	OPTIMA3	111809-2
7439-92-1	Lead	1.33	ug/L	B		MS	0.5	1	ICPMS4	091120-3
7439-95-4	Magnesium	4360	ug/L	B		P	85	1	OPTIMA3	111809-2
7439-96-5	Manganese	3.2	ug/L	B		P	2	1	OPTIMA3	111809-2
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	111909W1-4
7440-02-0	Nickel	3.67	ug/L	B		P	1.5	1	OPTIMA3	111809-2
7440-09-7	Potassium	4960	ug/L	B		P	50	1	OPTIMA3	111809-2
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS4	091120-3
7440-22-4	Silver	1.28	ug/L	B		P	1	1	OPTIMA3	111809-2
7440-23-5	Sodium	41400	ug/L			P	100	1	OPTIMA3	111809-2
7440-28-0	Thallium	0.3	ug/L	U		MS	0.3	1	ICPMS4	091120-3
7440-31-5	Tin	12.5	ug/L	U		P	12.5	5	OPTIMA3	111809-2
7440-62-2	Vanadium	2.19	ug/L	B		P	1	1	OPTIMA3	111809-2
7440-66-6	Zinc	50	ug/L			P	3.3	1	OPTIMA3	111809-2

Outfall 001  
Sampled 11/4/09  
24 hour composite

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 240204

METHOD TYPE: SW846

SAMPLE ID: 240204003

CLIENT ID: 27968-003

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 03-NOV-09

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	129	ug/L	B		P	68	1	OPTIMA3	111809-1
7440-36-0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	111809-1
7440-38-2	Arsenic	1.6	ug/L	U		MS	1.6	1	ICPMS4	091120-2
7440-39-3	Barium	45.9	ug/L	B		P	1	1	OPTIMA3	111809-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	111809-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	111809-1
7440-70-2	Calcium	14700	ug/L			P	50	1	OPTIMA3	111809-1
7440-47-3	Chromium	1.5	ug/L	B		P	1	1	OPTIMA3	111809-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	111809-1
7440-50-8	Copper	75.1	ug/L			P	3	1	OPTIMA3	111809-1
7439-89-6	Iron	713	ug/L			P	30	1	OPTIMA3	111809-1
7439-92-1	Lead	4.39	ug/L	B		MS	0.5	1	ICPMS4	091120-2
7439-95-4	Magnesium	4010	ug/L	B		P	85	1	OPTIMA3	111809-1
7439-96-5	Manganese	17.9	ug/L			P	2	1	OPTIMA3	111809-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	110509W1-3
7440-02-0	Nickel	2.32	ug/L	B		P	1.5	1	OPTIMA3	111809-1
7440-09-7	Potassium	3290	ug/L	B		P	50	1	OPTIMA3	111809-1
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS4	091120-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA3	111809-1
7440-23-5	Sodium	39700	ug/L			P	100	1	OPTIMA3	111809-1
7440-28-0	Thallium	0.3	ug/L	U		MS	0.3	1	ICPMS4	091120-2
7440-31-5	Tin	12.5	ug/L	U		P	12.5	5	OPTIMA3	111809-1
7440-62-2	Vanadium	1.29	ug/L	B		P	1	1	OPTIMA3	111809-1
7440-66-6	Zinc	63.4	ug/L			P	3.3	1	OPTIMA3	111809-1

STP Influent  
Sampled 11/2/09  
24 hour Composite

METALS  
-1-  
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 240428

METHOD TYPE: SW846

SAMPLE ID: 240428003

CLIENT ID: 27979-003

CONTRACT: BRKL00504

MATRIX: W

DATE RECEIVED 05-NOV-09

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	106	ug/L	B		P	68	1	OPTIMA3	111809-2
7440-36-0	Antimony	3	ug/L	U		P	3	1	OPTIMA3	111809-2
7440-38-2	Arsenic	1.6	ug/L	U		MS	1.6	1	ICPMS4	091120-3
7440-39-3	Barium	52.5	ug/L	B		P	1	1	OPTIMA1	120309A-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	111809-2
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	111809-2
7440-70-2	Calcium	22700	ug/L			P	50	1	OPTIMA3	111809-2
7440-47-3	Chromium	1.6	ug/L	B		P	1	1	OPTIMA3	111809-2
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	111809-2
7440-50-8	Copper	84.8	ug/L			P	3	1	OPTIMA3	111809-2
7439-89-6	Iron	793	ug/L			P	30	1	OPTIMA3	111809-2
7439-92-1	Lead	3.7	ug/L	B		MS	0.5	1	ICPMS4	091120-3
7439-95-4	Magnesium	6010	ug/L			P	85	1	OPTIMA3	111809-2
7439-96-5	Manganese	33.4	ug/L			P	2	1	OPTIMA3	111809-2
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	111909W1-4
7440-02-0	Nickel	2.81	ug/L	B		P	1.5	1	OPTIMA3	111809-2
7440-09-7	Potassium	6140	ug/L			P	50	1	OPTIMA3	111809-2
7782-49-2	Selenium	1	ug/L	U		MS	1	1	ICPMS4	091120-3
7440-22-4	Silver	17.8	ug/L			P	1	1	OPTIMA3	111809-2
7440-23-5	Sodium	110000	ug/L			P	100	1	OPTIMA3	111809-2
7440-28-0	Thallium	0.3	ug/L	U		MS	0.3	1	ICPMS4	091120-3
7440-31-5	Tin	12.5	ug/L	U		P	12.5	5	OPTIMA3	111809-2
7440-62-2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	111809-2
7440-66-6	Zinc	61	ug/L			P	3.3	1	OPTIMA3	111809-2

STP Influent  
Sampled 11/4/09  
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: November 18, 2009

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

Client Sample ID: 27968-002  
Sample ID: 240247001  
Matrix: w  
Collect Date: 02-NOV-09 11:15  
Receive Date: 03-NOV-09 08:47  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27968  
Samp Recv.:  
Client Desc.: STP Effluent  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Mercury Analysis-CVAA</b>										
<i>EPA 1631 Low Level Mercury Analysis "As Received"</i>										
Mercury		76.7	0.800	2.00	ng/L	4	ETL 11/11/09	1009	918909	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1631E	

Outfall 001  
Sampled 11/2/09  
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: November 24, 2009

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

Client Sample ID: 27979-002  
Sample ID: 240431001  
Matrix: Water  
Collect Date: 04-NOV-09 10:25  
Receive Date: 05-NOV-09 08:46  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27979  
Samp Recv.:  
Client Desc.: STP Effluent  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Mercury Analysis-CVAA</b>										
<i>EPA 1631 Low Level Mercury Analysis "As Received"</i>										
Mercury		73.1	0.400	1.00	ng/L	2	ETL 11/17/09	0949	919870	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1631E	

outfall 001  
sampled 11/4/09  
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: November 18, 2009

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

Client Sample ID: 27968-005  
Sample ID: 240247002  
Matrix: w  
Collect Date: 02-NOV-09 11:50  
Receive Date: 03-NOV-09 08:47  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27968  
Samp Recv.:  
Client Desc.: STP Influent  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Mercury Analysis-CVAA</b>											
<i>EPA 1631 Low Level Mercury Analysis "As Received"</i>											
Mercury		249	0.800	2.00	ng/L	4	ETL	11/11/09	1025	918909	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1631E	

STP Influent  
Sampled 11/2/09  
Grabs

# 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: November 24, 2009

Client Sample ID: 27979-005  
Sample ID: 240431002  
Matrix: Water  
Collect Date: 04-NOV-09 11:00  
Receive Date: 05-NOV-09 08:46  
Collector: Client  
Project: BRKL00504  
Client ID: BRKL005  
COC: 27979  
Samp Recv.:  
Client Desc.: STP Influent  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Mercury Analysis-CVAA</b>										
<i>EPA 1631 Low Level Mercury Analysis "As Received"</i>										
Mercury		71.4	0.200	0.500	ng/L	1	ETL	11/17/09	0956	919870 1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1631E	

STP Influent  
Sampled 11/4/09  
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: November 16, 2009

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

Client Sample ID:	27968-001	Project:	BRKL00504
Sample ID:	240204001	Client ID:	BRKL005
Matrix:	W	COC:	27968
Collect Date:	02-NOV-09 11:00	Samp Recv.:	
Receive Date:	03-NOV-09 08:45	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Nutrient Analysis Federal</b>											
<i>EPA 365.4 Phosphorus, Total in "As Received"</i>											
Phosphorus, Total as P		0.417	0.015	0.050	mg/L	1	AXH3	11/09/09	1236	918886	1
<b>Solids Analysis Federal</b>											
<i>SM 2540D Total Suspended Liq "As Received"</i>											
Total Suspended Solids	U	0.600	1.14	5.00	mg/L		SDS	11/04/09	1028	918807	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid-Fe	SXJ1	11/04/09	1000	918885

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 365.4	
2	SM 2540D	

Outfall 001  
sampled 11/2/09  
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: November 19, 2009

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

Client Sample ID: 27979-001  
Sample ID: 240428001  
Matrix: Water  
Collect Date: 04-NOV-09 10:05  
Receive Date: 05-NOV-09 08:50  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27979  
Samp Recv.:  
Client Desc.: STP Effluent  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Nutrient Analysis Federal</b>											
<i>EPA 365.4 Phosphorus, Total in "As Received"</i>											
Phosphorus, Total as P		0.804	0.015	0.050	mg/L	1	AXH3	11/09/09	1126	919530	1
<b>Solids Analysis Federal</b>											
<i>SM 2540D Total Suspended Liq "As Received"</i>											
Total Suspended Solids	U	0.400	0.570	2.50	mg/L		SDS	11/06/09	1031	919883	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 365.4 Prep	EPA 365.4 Phosphorus, Total in liquid-Fe	SXJ1	11/06/09	0930	919528

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 365.4	
2	SM 2540D	

Outfall 001  
Sampled 11/4/09  
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: November 16, 2009

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

Client Sample ID:	27968-002	Project:	BRKL00504
Sample ID:	240204002	Client ID:	BRKL005
Matrix:	W	COC:	27968
Collect Date:	02-NOV-09 11:15	Samp Recv.:	
Receive Date:	03-NOV-09 08:45	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis Federal</b>											
<i>SW9012A Cyanide, Total Federal "As Received"</i>											
Cyanide, Total	U	-1.71	1.66	5.00	ug/L	1	AXC2	11/06/09	1028	918890	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	11/04/09	1326	918889

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

outfall 001  
sampled 11/2/09  
grabs

# GEL LABORATORIES LLC

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## Certificate of Analysis

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

Report Date: November 19, 2009

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

Client Sample ID: 27979-002  
Sample ID: 240428002  
Matrix: Water  
Collect Date: 04-NOV-09 10:25  
Receive Date: 05-NOV-09 08:50  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27979  
Samp Recv.:  
Client Desc.: STP Effluent  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis Federal</b>											
<i>SW9012A Cyanide, Total Federal "As Received"</i>											
Cyanide, Total	U	-0.247	1.66	5.00	ug/L	1	AXC2	11/11/09	1054	919242	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	11/10/09	1620	919241

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Outfall 001  
Sampled 11/4/09  
Grab

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## Certificate of Analysis

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

Report Date: November 16, 2009

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

Client Sample ID: 27968-003  
Sample ID: 240204003  
Matrix: W  
Collect Date: 02-NOV-09 11:40  
Receive Date: 03-NOV-09 08:45  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27968  
Samp Recv.:  
Client Desc.: STP Influent  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Solids Analysis Federal</b>											
<i>SM 2540D Total Suspended Liq "As Received"</i>											
Total Suspended Solids		27.8	2.11	9.26	mg/L	SDS	11/04/09	1028	918807	1	

### The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	SM 2540D		

STP Influent  
Sampled 11/2/09  
24 hour composite

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## Certificate of Analysis

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

Report Date: November 19, 2009

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

Client Sample ID: 27979-003  
Sample ID: 240428003  
Matrix: Water  
Collect Date: 04-NOV-09 10:55  
Receive Date: 05-NOV-09 08:50  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27979  
Samp Recv.:  
Client Desc.: STP Influent  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Solids Analysis Federal</b>										
<i>SM 2540D Total Suspended Liq "As Received"</i>										
Total Suspended Solids		40.0	2.28	10.0	mg/L	SDS	11/06/09	1031	919883	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SM 2540D	

STP Influent  
Sampled 11/4/09  
24 hour composite



**ATTACHMENT III**

**BROOKHAVEN NATIONAL LABORATORY**

**SPDES PERMIT NO. NY0005835**

**DISCHARGE MONITORING REPORT FOR NOVEMBER 2009**

**ANALYTICAL RESULTS FROM**

**GENERAL ENGINEERING LABORATORIES, LLC,**

**FOR REGULATORY COMPLIANCE SAMPLES COLLECTED FROM**

**OUTFALLS 002, 002B, 005, 006A, and 006B**

# 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: November 22, 2009

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

Client Sample ID: 27990-005  
Sample ID: 240661005  
Matrix: W  
Collect Date: 05-NOV-09 14:28  
Receive Date: 07-NOV-09 08:45  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27990  
Samp Recv.:  
Client Desc.: 1002/1004  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>											
<i>EPA 1664A n-Hexane Extractable Material (Oil and G "As Received")</i>											
Oil and Grease		6.22	1.56	5.56	mg/L		JXT1	11/10/09	0747	920827	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 002B (1004/1002)  
Sampled 4/5/09

# 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: November 22, 2009

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

Client Sample ID: 27990-003  
Sample ID: 240661003  
Matrix: W  
Collect Date: 05-NOV-09 14:18  
Receive Date: 07-NOV-09 08:45  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27990  
Samp Recv.:  
Client Desc.: HN  
Vol. Recv.:

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 "As Received"</i>										
Oil and Grease		6.71	1.65	5.88	mg/L		JXT1 11/10/09	0747	920827	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 002 (HN)  
Sampled 11/5/09

# 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: November 22, 2009

Client Sample ID: 27990-004  
Sample ID: 240661004  
Matrix: W  
Collect Date: 05-NOV-09 14:07  
Receive Date: 07-NOV-09 08:45  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27990  
Samp Recv.:  
Client Desc.: HS  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>											
<i>EPA 1664A n-Hexane Extractable Material (Oil and G "As Received"</i>											
Oil and Grease		6.05	1.63	5.81	mg/L		JXT1	11/10/09	0747	920827	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 005 (HS)  
sampled 11/5/09

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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: November 22, 2009

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

Client Sample ID: 27990-001  
Sample ID: 240661001  
Matrix: W  
Collect Date: 05-NOV-09 14:05  
Receive Date: 07-NOV-09 08:45  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27990  
Samp Recv.:  
Client Desc.: HT-W  
Vol. Recv.:

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 "As Received"</i>										
Oil and Grease		6.98	1.66	5.92	mg/L		JXT1 11/10/09	0747	920827	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 006A (HT-W)  
sampled 11/5/09

# 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: November 22, 2009

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

Client Sample ID: 27990-002  
Sample ID: 240661002  
Matrix: W  
Collect Date: 05-NOV-09 14:10  
Receive Date: 07-NOV-09 08:45  
Collector: Client

Project: BRKL00504  
Client ID: BRKL005  
COC: 27990  
Samp Recv.:  
Client Desc.: HT-E  
Vol. Recv.:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Oil &amp; Grease Analysis Federal</b>											
<i>EPA 1664A n-Hexane Extractable Material (Oil and G "As Received")</i>											
Oil and Grease		5.96	1.57	5.62	mg/L		JXTI	11/10/09	0747	920827	1

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 006B(HT-E)  
Sampled 11/5/09