



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

December 21, 2011

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

Gentlemen:

**SUBJECT: State Pollutant Discharge Elimination System (SPDES) NY-0005835
Brookhaven National Laboratory (BNL) Discharge Monitoring Report (DMR)
for November 2011**

In accordance with our modified SPDES permit (NY-0005835), enclosed as Attachment I, please find the DMR for the month of November 2011. 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.

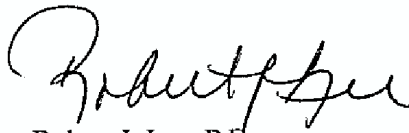
Collection and analysis of these samples are performed in accordance with the BNL Quality Assurance (QA) Program that specifies the standard operating procedures for collection and analysis of samples, QA data requirements, validation of contractor analytical data, and QA inspections performed periodically 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 2011.



Registered to
ISO 14001

If you should have any questions, please contact Jason Remien of my staff at (631) 344-3477.

Sincerely,



Robert J. Lee, P.E.
Manager, Environmental Protection Division

- Attachment I: Discharge Monitoring Report for November 2011.
- Attachment II: Analytical Results from H2M Labs Inc. and General Engineering Laboratories, LLC for samples collected on 11/7/11 and 11/9/11 from Outfall 001 (BNL Use Only).
- Attachment III: Analytical Results from General Engineering Laboratories for samples collected from Outfalls 002, 002B, 005, 006A, 006B, 008, and 010 (BNL Use Only).

RJL/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
R. Backofen, w/o Attachments
R. Izzo, w/ all Attachments
W. Chaloupka, w/ all Attachments
G. Granzen, w/ all Attachments
C. Johnson, w/o Attachments
R. Lee, w/ all Attachments
T. Roser, w/o Attachments
V. Radeka, w/ all Attachments
J. Sun, NYSDEC, w/ Attachment I
C. Olsen, SCDHS, w/ Attachment 1

File: EC62ER.11

Brookhaven National Laboratory
SPDES Permit No. NY0005835
Discharge Monitoring Report for November 2011
Discharge Monitoring Report Notes:

1. The reported concentration is estimated at less than the method detection limit but greater than the instrument detection limit.
2. Flow is estimated based upon an instantaneous flow measurement and the assumption that flow continued for the entire day (i.e., 1,440 minutes).
3. Since flow records are maintained on a weekly or monthly basis, the flow rate provided is the daily average.

ATTACHMENT I

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR NOVEMBER 2011

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 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

Page 1

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

NY0005835	001-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 11/01/2011	TO 11/30/2011

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	UNITS	VALUE	UNITS	UNITS			
Temperature, water deg. Fahrenheit	*****	*****	*****	64			0	01/01	GR
00011 0 Effluent Gross BOD, 5-day, 20 deg. C	*****	*****	*****	90 DAILY MX	deg F		0	Daily	GRAB
00010 1 0 Effluent Gross pH	*****	*****	*****	<2			0	02/30	24
00400 1 0 Effluent Gross Solids, total suspended	*****	*****	*****	5 DAILY MX	mg/L		0	Monthly	COMP24
00530 1 0 Effluent Gross Solids, settleable	*****	*****	*****	7.3			0	01/01	GR
00545 1 0 Effluent Gross Nitrogen, total (as N)	*****	*****	*****	9 MINIMUM	SU		0	Daily	GRAB
00600 1 0 Effluent Gross Nitrogen, ammonia total (as N)	*****	*****	*****	<0.6			0	02/30	24
00610 1 0 Effluent Gross	*****	*****	*****	20 DAILY MX	mg/L		0	Monthly	COMP24
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	*****	*****	*****	0.0			0	01/01	GR
Robert J. Lee	*****	*****	*****	0.1 DAILY MX	m/L/L		0	Daily	GRAB
Division Manager	*****	*****	*****	6			0	02/30	24
Environmental Protection Division	*****	*****	*****	10 DAILY MX	mg/L		0	Monthly	COMP24
Typical or Printed	*****	*****	*****	<0.1			0	02/30	24
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	*****	*****	*****	1.5 DAILY MX	mg/L		0	Monthly	COMP24
Signature of Principal Executive Officer	*****			*****			0	02/30	24
Robert J. Lee	*****			*****			0	02/30	24
Division Manager	*****			*****			0	02/30	24
Environmental Protection Division	*****			*****			0	02/30	24
Signature of Principal Executive Officer	*****			*****			0	02/30	24
Robert J. Lee	*****			*****			0	02/30	24
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Signature of Principal Executive Officer	*****			*****			0	02/30	24
Robert J. Lee									

**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

NY0005635 001-M
 PERMIT NUMBER DISCHARGE NUMBER

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

MONITORING PERIOD
 FROM 11/01/2011 TO 11/30/2011

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS			
Phosphorus, total (as P)	*****	*****	1.4		0	02/30	24
00665 1 0 Effluent Gross	*****	*****	*****	mg/L		Monthly	COMP24
Cyanide, total (as CN)	*****	*****	1.6		0	02/30	GR
00720 1 0 Effluent Gross	*****	*****	*****	ug/L		Twice Per Month	GRAB
Copper, total (as Cu)	*****	*****	0.033		0	02/30	24
01042 1 0 Effluent Gross	*****	*****	0.15			Monthly	COMP24
Iron, total (as Fe)	*****	*****	0.22		0	02/30	24
01045 1 0 Effluent Gross	*****	*****	0.37			Monthly	COMP24
Lead, total (as Pb)	*****	*****	0.0012		0	02/30	24
01051 1 0 Effluent Gross	*****	*****	0.019			Monthly	COMP24
Nickel, total (as Ni)	*****	*****	0.0044		0	02/30	24
01067 1 0 Effluent Gross	*****	*****	0.11			Monthly	COMP24
Silver, total (as Ag)	*****	*****	0.0018		0	02/30	24
01077 1 0 Effluent Gross	*****	*****	0.015			Monthly	COMP24
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Robert J. Lee Division Manager Environmental Protection Division Typed or Printed						
DATE	12/21/2011						
TELEPHONE	631-344-3146						
Area Code Number	MMDDYYYY						

Robert J. Lee
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 PARAMETER HEPF IS NEW FOR THIS OUTFALL PLEASE PLACE ITS VALUES UNDER THE PARAMETER LINE 1-HYDROXYETHYLIDENE 1,1-DIPHOSPHONIC ACID IS UNDER PARAMETER CODE 85812.

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
 MONITORING PERIOD
 MM/DD/YYYY TO MM/DD/YYYY
 FROM 11/01/2011 TO 11/30/2011

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	UNITS	VALUE	UNITS	VALUE	UNITS			
Zinc, total (as Zn)	0.39	Mgal/d	0.04	mg/L	0	02/30	24		
01092 1 0 Effluent Gross	0.1	DAILY MX	0.1	mg/L	0	Monthly	COMP24		
Toluene	<1	*****	<1	*****	0	02/30	GR		
34010 1 0 Effluent Gross	5	DAILY MX	5	ug/L	0	Twice Per Month	GRAB		
Methylene chloride	<2	*****	<2	*****	0	02/30	GR		
34423 1 0 Effluent Gross	5	DAILY MX	5	ug/L	0	Twice Per Month	GRAB		
1, 1, 1- Trichloroethane	<1	*****	<1	*****	0	02/30	GR		
34506 1 0 Effluent Gross	5	DAILY MX	5	ug/L	0	Twice Per Month	GRAB		
Flow, in conduit or thru treatment plant	0.50	*****	0.50	*****	0	99/99	RC		
50050 1 0 Effluent Gross	Req: Mon, 2.3 DAILY MX	Mgal/d	*****	*****	0	Continuous	RCORDR		
Mercury, total (as Hg)	85	*****	85	*****	0	02/30	24		
71900 1 0 Effluent Gross	200	DAILY MX	200	ng/L	0	Monthly	COMP24		
Coliform, fecal general	<2	*****	<2	*****	0	02/30	GR		
74055 1 0 Effluent Gross	400	DAILY MX	400	#/100mL	0	Monthly	GRAB		
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on:									
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Robert J. Lee Division Manager Environmental Protection Division Typed or Printed							TELEPHONE 631-344-3148 Area Code Number		DATE 12/21/2011 MM/DD/YYYY

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 1,1-DIPHOSPHONIC ACID IS UNDER PARAMETER CODE 85612.

**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)
 PROCESS SANIT & STORMWTR RNOFF
 External Outfall

PERMIT NUMBER	NY0005835	DISCHARGE NUMBER	001-M
MONITORING PERIOD	FROM 11/01/2011	TO 11/30/2011	

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
2 - Butanone	*****	*****	*****	*****	<5		0	02/30	GR
78356 1 0 Effluent Gross BOD, 5-day, percent removal	*****	*****	*****	*****	50 DAILY MX	ug/L	0	Twice Per Month	GRAB
81010 K 0 Percent Removal Solids, suspended percent removal	*****	*****	*****	*****	>93 85 MO. AV. MN.	%	0	01/30	CA
81011 K 0 Percent Removal HEDP	*****	*****	*****	*****	>99 85 MO. AV. MN.	%	0	01/30	CA
85612 1 0 Effluent Gross Toyltriazole	*****	*****	*****	*****	<0.05		0	01/30	24
85613 1 0 Effluent Gross	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	0	01/30	COMP24
	*****	*****	*****	*****	<0.005		0	01/30	24
	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L	0	01/30	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
Robert J. Lee	631-344-3149	12/21/2011
Division Manager	Area Code Number	MMDDYYYY
Environmental Protection Division		

Signature: *Robert J. Lee*
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF 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 1,1-DIPHOSPHONIC ACID IS UNDER PARAMETER CODE 85812.

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

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 LOCATION 53 BELL AVENUE, BLDG 464
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NY0005835	002-B
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 11/01/2011	TO 11/30/2011

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	*****	*****	8.0	*****	8.0	*****	0	01/30	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	*****	*****	*****	*****	1.5	*****	0	01/30	GR
SEE NOTE #3	*****	*****	*****	*****	15 DAILY MX	*****	0	Monthly	GRAB
50050 1 0 Effluent Gross	*****	0.001	*****	*****	*****	*****	0	04/30	RC
	*****	Req. Mon. DAILY MX	*****	*****	*****	*****	0	Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Robert J. Lee 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
		631-344-3148	12/1/2011
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)
 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 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

NY0005635	002-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 11/01/2011	TO 11/30/2011

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	*****	8.4	*****	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	*****	*****	*****	*****	<1.0	*****	0	01/30	GR
50050 1 0 Effluent Gross	0.06	*****	*****	*****	15 DAILY/MX	mg/L	0	Monthly	GRAB
	Req. Mon. DAILY AV	*****	*****	*****	*****	*****	0	04/30	RC
		*****	*****	*****	*****	*****		Monthly	RECORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Robert J. Lee Division Manager Environmental Protection Division	TELEPHONE 631-344-3148	DATE 12/21/11
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)
 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 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 005-M
 PERMIT NUMBER DISCHARGE NUMBER
 FROM 11/01/2011 TO 11/30/2011
 MONITORING PERIOD
 MM/DD/YYYY MM/DD/YYYY

DMR MAILING ZIP CODE: 11973
 MAJOR (SUBR 01)
 NSLS COOLING TOWR BLDN ETC (HS)
 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	*****	*****	7.3	*****	8.4	*****	0	04/30	GR
00400 1 0 Effluent Gross Oil & grease	*****	*****	Req. Min. MINIMUM	*****	8.5 MAXIMUM	SU	0	Monthly	GRAB
00556 1 0 Effluent Gross Flow, in conduit or thru treatment plant	*****	*****	*****	*****	1.9	*****	0	01/30	GR
50050 1 0 Effluent Gross	0.45	*****	*****	*****	15 DAILY MX	mg/L	0	Monthly	GRAB
	Req. Mon. MO/AV	*****	*****	*****	*****	*****	0	04/30	RC
		*****	*****	*****	*****	*****	0	Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Robert J. Lee Division Manager Environmental Protection Division	TELEPHONE 631-344-3148	DATE 12/21/2011
Typed or Printed	Area Code Number	MM/DD/YYYY

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

Robert J. Lee
 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.

**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

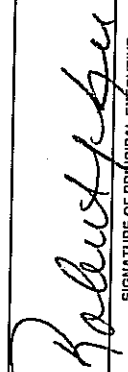
NY0005835 007-M
 PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD
 MM/DD/YYYY TO MM/DD/YYYY
 FROM 11/01/2011 TO 11/30/2011

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

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
Flow rate	80000		*****	*****	*****	*****	0	13/30	IN
00056 1 0 Effluent Gross pH	Req. Mon. DAILY MX	gal/d	*****	*****	*****	*****	0	Monthly	INSTAN
00400 1 0 Effluent Gross	Req. Mon. MINIMUM	*****	8.4	*****	8.4	*****	0	01/30	GR
	*****	*****	*****	*****	9 MAXIMUM	SU		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Robert J. Lee Division Manager Environmental Protection Division Typed or Printed	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		631-344-3148 Area Code Number	12/21/2011 MM/DD/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 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)
 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

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

NY0005635 00B-M
 PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD
 FROM 11/01/2011 TO 11/30/2011

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 #2	66230		*****		*****		0	01/30	IN
00056 1 0 Effluent Gross pH	SAMPLE PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	*****	*****	*****	*****	0	Monthly	INSTAN
00400 1 0 Effluent Gross Oil & grease	SAMPLE PERMIT REQUIREMENT	*****	*****	8.4	*****	8.4	*****	0	01/30	GR
00556 1 0 Effluent Gross 1, 1 - Dichloroethane	SAMPLE PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MINIMUM	8.5 MAXIMUM	0	Monthly	GRAB
34501 1 0 Effluent Gross 1, 1, 1 - Trichloroethane	SAMPLE PERMIT REQUIREMENT	*****	*****	*****	*****	*****	15 DAILY MX	0	01/30	GR
34506 1 0 Effluent Gross	SAMPLE PERMIT REQUIREMENT	*****	*****	*****	*****	*****	<1	0	01/30	GR
		*****	*****	*****	*****	*****	5 DAILY MX	0	Monthly	GRAB
		*****	*****	*****	*****	*****	<1	0	01/30	GR
		*****	*****	*****	*****	*****	5 DAILY MX	0	Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Robert J. Lee Division Manager Environmental Protection Division	TELEPHONE 631-344-3148 Area Code Number	DATE 12/21/2011 MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Robert J. Lee</i>		

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

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 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 010-M

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

MONITORING PERIOD
 FROM 11/01/2011 TO 11/30/2011

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
Flow rate	29250		*****		*****		0	01/30	IN
00056 1 0 Effluent Gross pH	Req. Min. DAILY MX	gal/d	*****		*****			Monthly	INSTAN
00400 1 0 Effluent Gross Oil & grease	*****	*****	8.4		*****	0	01/30	01/30	GR
00556 1 0 Effluent Gross	*****	*****	Req. Min. MINIMUM		*****			Monthly	GRAB
	*****	*****	*****		*****	0	01/30	01/30	GR
	*****	*****	*****		*****			Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Robert J. Lee Division Manager Environmental Protection Division	TELEPHONE 631-344-3148	DATE 12/21/2011
Typed or Printed	Area Code Number	MM/DD/YYYY

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, review, and evaluate the information submitted. Based on

Robert J. Lee
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

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

**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 06A-M
 PERMIT NUMBER DISCHARGE NUMBER

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

MONITORING PERIOD
 FROM 11/01/2011 TO 11/30/2011

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	UNITS	VALUE	VALUE	UNITS			
pH	*****	*****	*****	7.3	*****	7.9	0	04/30	GR
00400 1 0 Effluent Gross Oil & grease	*****	*****	*****	Req. Min. MINIMUM	*****	9 MAXIMUM		Once Per Month	GRAB
00556 1 0 Effluent Gross Flow, in conduit or thru treatment plant	*****	*****	*****	*****	*****	1.5	0	01/30	GR
50050 1 0 Effluent Gross	0.06	*****	*****	*****	*****	15 DAILY MAX		Once Per Month	GRAB
	Req. Mon. DAILY AV	*****	*****	*****	*****	*****	0	04/30	RC
		*****	*****	*****	*****	*****		Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Robert J. Lee Division Manager Environmental Protection Division	TELEPHONE 631-344-3148	DATE 12/21/2011
Typed or Printed	Area Code Number	MMDD/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.

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

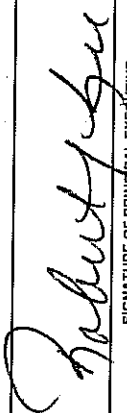
PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)
 NAME U S D O E
 ADDRESS 53 BELL AVENUE, BLDG 464
 UPTON, NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION 53 BELL AVENUE, BLDG 464
 UPTON, NY 11973
 ATTN: MICHAEL HOLLAND, OFFICE MGR

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

NY0005835	06B-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 11/01/2011	TO 11/30/2011

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE			
pH	*****	*****	*****	7.6	*****	0	04/30	GR
00400 1 0 Effluent Gross Oil & grease	*****	*****	*****	Req. Mon. MINIMUM	*****	0	Monthly	GRAB
00556 1 0 Effluent Gross Flow, in conduit or thru treatment plant	*****	*****	*****	*****	<1.0	0	01/30	GR
50050 1 0 Effluent Gross	0.09	*****	*****	*****	15 DAILY/MX	0	Monthly	GRAB
	Req. Mon. DAILY/AV.	*****	Mgal/d	*****	*****	0	04/30	RC
	*****	*****	*****	*****	*****		Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Robert J. Lee Division Manager Environmental Protection Division	TELEPHONE 631-344-3148 Area Code Number	DATE 12/21/2011 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 2011

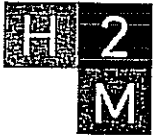
ANALYTICAL RESULTS FROM H2M LABS

AND GENERAL ENGINEERING LABORATORIES, LLC

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

11/7/11 and 11/9/11

FROM OUTFALL 001



labs

575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 1111278-001

Client Sample ID. : 29344-001

Sample Information...

Type : Aqueous

Origin:

Brookhaven National Lab.-BNLS

70 Bell Ave.

Upton, NY 11973

Attn To : Bob Lee

Collected : 11/7/2011 11:10:00 AM

Received : 11/7/2011 3:00:00 PM

Collected By CLIENT

Copies To :

CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2		1	mg/L	SM5210B	11/09/2011 10:20 AM
Nitrogen, Ammonia (As N)	< 0.10		1	mg/L	SM4500-NH3 H	11/14/2011 12:15 PM
Nitrite as N	< 0.01		1	mg/L	E353.2	11/08/2011 7:49 AM
Nitrate as N	5.08	D	10	mg/L	E353.2	11/08/2011 8:58 AM
Nitrogen, Total	5.08		1	mg/L	M4500-N C	11/16/2011
Nitrogen, Kjeldahl, Total	< 0.10		1	mg/L	E351.2	11/16/2011 1:26 PM

Outfall 001
11/7/11
24 hour composite

Qualifiers:

- E = Value above quantitation range
- D = Results for Dilution
- D.F. = Dilution Factor
- H = Received/analyzed outside of analytical holding time

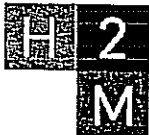
Laboratory Manager

Date Reported : 11/22/2011

Page 1 of 4

Reissued CLG Dec-05-11

BNLS951 A20



labs

575 Broad Hollow Melville, NY 11747

TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 1111377-001

ClientSample ID. : 29350-001

Sample Information...

Type : Aqueous

Origin:

Brookhaven National Lab.-BNLS

70 Bell Ave.

Upton, NY 11973

Attn To : Bob Lee

Collected : 11/9/2011 11:00:00 AM

Received : 11/9/2011 3:00:00 PM

Collected By CLIENT

Copies To :

CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	< 2		1	mg/L	SM5210B	11/10/2011 9:35 AM
Nitrogen, Nitrate-Nitrite	6.19	D	10	mg/L	E353.2	11/29/2011 7:50 AM
Nitrogen, Ammonia (As N)	< 0.10		1	mg/L	SM4500-NH3 H	11/14/2011 11:23 AM
Nitrogen, Total	6.19		1	mg/L	M4500-N C	11/29/2011
Nitrogen, Kjeldahl, Total	< 0.10		1	mg/L	E351.2	11/16/2011 1:29 PM

Outfall 001

11/9/11

24 hour composite

Qualifiers:

E = Value above quantitation range

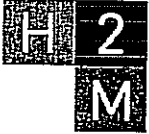
D = Results for Dilution

D.F. = Dilution Factor

H = Received/analyzed outside of analytical holding time

Joann M. Slavine

Laboratory Manager



labs

LABORATORY RESULTS

575 Broad Hollow Melville, NY 11747

For the submitted sample

TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

Lab No. : **1111278-002**

Sample Information...

Type : Aqueous

Brookhaven National Lab.-BNLS

70 Bell Ave.

Upton, NY 11973

Attn To : Bob Lee

ClientSample ID. : 29344-002

Origin:

Collected : 11/7/2011 11:20:00 AM

Received : 11/7/2011 3:00:00 PM

Collected By CLIENT

Copies To :

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	30		1	MPN	SM9221BE	11/07/2011 4:00 PM
Fecal Coliform	2		1	MPN	SM9221BE	11/07/2011 4:00 PM

Outfall 001
11/7/11
Grab

Qualifiers:

- E = Value above quantitation range
- D = Results for Dilution
- D.F. = Dilution Factor
- H = Received/analyzed outside of analytical holding time

Laboratory Manager



labs

575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 1111377-002

Client Sample ID. : 29350-002

Sample Information...

Type : Aqueous

Origin:

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

Collected : 11/9/2011 11:20:00 AM
Received : 11/9/2011 3:00:00 PM
Collected By CLIENT
Copies To :
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	SM9221BE	11/09/2011 3:45 PM
Fecal Coliform	< 2		1	MPN	SM9221BE	11/09/2011 3:45 PM

Ou Hall 001
11/9/11
Grab

Qualifiers:

- E = Value above quantitation range
- D = Results for Dilution
- D.F. = Dilution Factor
- H = Received/analyzed outside of analytical holding time

Laboratory Manager



labs

575 Broad Hollow Melville, NY 11747

TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **1111278-003**

Client Sample ID. : 29344-003

Sample Information...

Type : Aqueous

Origin:

Brookhaven National Lab.-BNLS

70 Bell Ave.

Upton, NY 11973

Attn To : Bob Lee

Collected : 11/7/2011 11:50:00 AM

Received : 11/7/2011 3:00:00 PM

Collected By CLIENT

Copies To :

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	12		1	mg/L	SM5210B	11/09/2011 10:30 AM

STP Influent

11/7/11

24 hour composite

Qualifiers:

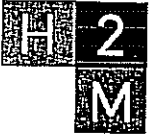
E = Value above quantitation range

D = Results for Dilution

D.F. = Dilution Factor

H = Received/analyzed outside of analytical holding time

Laboratory Manager



labs

575 Broad Hollow Melville, NY 11747

TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10476

LABORATORY RESULTS

For the submitted sample

Lab No. : 1111377-003

ClientSample ID. : 29350-003

Sample Information...

Type : Aqueous

Origin:

Brookhaven National Lab.-BNLS

70 Bell Ave.

Upton, NY 11973

Attn To : Bob Lee

Collected : 11/9/2011 11:50:00 AM

Received : 11/9/2011 3:00:00 PM

Collected By CLIENT

Copies To :

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	42		1	mg/L	SM5210B	11/10/2011 9:30 AM

STP Influent
11/9/11

24 hour composite

Qualifiers:

E = Value above quantitation range

D = Results for Dilution

D.F. = Dilution Factor

H = Received/analyzed outside of analytical holding time

Laboratory Manager

Date Reported : 12/5/2011

Page 3 of 3

Reissued CLG Dec-05-11

BNLS951 A26

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 29343	Date Collected: 11/07/2011 11:20	Matrix: W
Lab Sample ID: 289729002	Date Received: 11/08/2011 08:50	
Client Sample: STP Effluent	Client: BRKL006	Project: BRKL00604
Client ID: 29343-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 1159625	Inst: VOA4.I	Dilution: 1
Run Date: 11/10/2011 17:05	Analyst: ACJ	Purge Vol: 5 mL
Prep Date: 11/10/2011 17:05		
Data File: 111011V44K417.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

Out fall 001
11/7/11

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 29349	Date Collected: 11/09/2011 11:20	Matrix: WATER
Lab Sample ID: 289929002	Date Received: 11/10/2011 08:45	
Client Sample: STP Effluent	Client: BRKL006	Project: BRKL00604
Client ID: 29349-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 1159625	Inst: VOA4.I	Dilution: 1
Run Date: 11/15/2011 00:40	Analyst: ACJ	Purge Vol: 5 mL
Prep Date: 11/15/2011 00:40		
Data File: 111411V44L126.D	Column: DB-624	

CAS No.	Parmname	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
11/9/11

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29343

METHOD TYPE: SW846

SAMPLE ID: 289729001

CLIENT ID: 29343-001

CONTRACT: BRKL00604

MATRIX: W

DATE RECEIVED 08-NOV-11

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>Inst ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	68	ug/L	U		P	68	1	OPTIMA	112311B-1
7440-36-0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA	112311B-1
7440-38-2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	111125-3
7440-39-3	Barium	20.1	ug/L	B		P	1	1	OPTIMA	112311B-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA	112311B-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA	112311B-1
7440-70-2	Calcium	15500	ug/L			P	50	1	OPTIMA	112311B-1
7440-47-3	Chromium	1.44	ug/L	B		P	1	1	OPTIMA	112311B-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA	112311B-1
7440-50-8	Copper	32.9	ug/L			P	3	1	OPTIMA	112311B-1
7439-89-6	Iron	185	ug/L			P	30	1	OPTIMA	112311B-1
7439-92-1	Lead	0.68	ug/L	B		MS	0.5	1	ICPMS5	111125-3
7439-95-4	Magnesium	3840	ug/L	B		P	110	1	OPTIMA	112311B-1
7439-96-5	Manganese	2	ug/L	U		P	2	1	OPTIMA	112311B-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	113011W1-4
7440-02-0	Nickel	4.36	ug/L	B		P	1.5	1	OPTIMA	112311B-1
7440-09-7	Potassium	6320	ug/L			E P	50	1	OPTIMA	112911-2
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	111125-3
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA	112311B-1
7440-23-5	Sodium	42000	ug/L			P	100	1	OPTIMA	112311B-1
7440-28-0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	111125-3
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA	112311B-1
7440-62-2	Vanadium	1.92	ug/L	B		P	1	1	OPTIMA	112311B-1
7440-66-6	Zinc	36.3	ug/L			P	3.3	1	OPTIMA	112311B-1

Outfall 001
11/7/11
24 hour composite

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29349

METHOD TYPE: SW846

SAMPLE ID: 289929001

CLIENT ID: 29349-001

CONTRACT: BRKL00604

MATRIX: Water

DATE RECEIVED 10-NOV-11

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>Inst ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	68	ug/L	U		P	68	1	OPTIMA	120611B-1
7440-36-0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA	120611B-1
7440-38-2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	111205-2
7440-39-3	Barium	26.9	ug/L	B		P	1	1	OPTIMA	120611B-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA	120611B-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA	120611B-1
7440-70-2	Calcium	20500	ug/L			P	50	1	OPTIMA	120611B-1
7440-47-3	Chromium	1.26	ug/L	B		P	1	1	OPTIMA	120611B-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA	120611B-1
7440-50-8	Copper	31.3	ug/L			P	3	1	OPTIMA	120611B-1
7439-89-6	Iron	217	ug/L			P	30	1	OPTIMA	120611B-1
7439-92-1	Lead	1.24	ug/L	B		MS	0.5	1	ICPMS6	111201-3
7439-95-4	Magnesium	5330	ug/L			P	110	1	OPTIMA	120611B-1
7439-96-5	Manganese	2.22	ug/L	B		P	2	1	OPTIMA	120611B-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	113011W1-4
7440-02-0	Nickel	3.79	ug/L	B		P	1.5	1	OPTIMA	120611B-1
7440-09-7	Potassium	6660	ug/L			P	50	1	OPTIMA	120611B-1
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	111205-2
7440-22-4	Silver	1.76	ug/L	B		P	1	1	OPTIMA	120611B-1
7440-23-5	Sodium	50000	ug/L			P	100	1	OPTIMA	120611B-1
7440-28-0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS6	111201-3
7440-31-5	Tin	12.5	ug/L	U		P	12.5	5	OPTIMA	120611B-1
7440-62-2	Vanadium	1.47	ug/L	B		P	1	1	OPTIMA	120611B-1
7440-66-6	Zinc	37.2	ug/L			P	3.3	1	OPTIMA	120611B-1

Outfall 001
11/9/11
24 hour composite

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29343

METHOD TYPE: SW846

SAMPLE ID: 289729003

CLIENT ID: 29343-003

CONTRACT: BRKL00604

MATRIX: W

DATE RECEIVED 08-NOV-11

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>Inst ID</u>	<u>Analytical Run</u>
7429-90-5	Aluminum	201	ug/L			P	68	1	OPTIMA	112311B-1
7440-36-0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA	112311B-1
7440-38-2	Arsenic	2.63	ug/L	B		MS	1.7	1	ICPMS5	111125-3
7440-39-3	Barium	39.7	ug/L	B		P	1	1	OPTIMA	112311B-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA	112311B-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA	112311B-1
7440-70-2	Calcium	14900	ug/L			P	50	1	OPTIMA	112311B-1
7440-47-3	Chromium	2.3	ug/L	B		P	1	1	OPTIMA	112311B-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA	112311B-1
7440-50-8	Copper	78.9	ug/L			P	3	1	OPTIMA	112311B-1
7439-89-6	Iron	840	ug/L			P	30	1	OPTIMA	112311B-1
7439-92-1	Lead	5.49	ug/L	B		MS	0.5	1	ICPMS5	111125-3
7439-95-4	Magnesium	3750	ug/L	B		P	110	1	OPTIMA	112311B-1
7439-96-5	Manganese	15.7	ug/L			P	2	1	OPTIMA	112311B-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	113011W1-4
7440-02-0	Nickel	4.72	ug/L	B		P	1.5	1	OPTIMA	112311B-1
7440-09-7	Potassium	6190	ug/L		E	P	50	1	OPTIMA	112911-2
7782-49-2	Selenium	1.65	ug/L	B		MS	1.5	1	ICPMS5	111125-3
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA	112311B-1
7440-23-5	Sodium	41400	ug/L			P	100	1	OPTIMA	112311B-1
7440-28-0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	111125-3
7440-31-5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA	112311B-1
7440-62-2	Vanadium	1	ug/L	U		P	1	1	OPTIMA	112311B-1
7440-66-6	Zinc	69.2	ug/L			P	3.3	1	OPTIMA	112311B-1

*STP Influent
11/7/11
24 hour composite*

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29349

METHOD TYPE: SW846

SAMPLE ID: 289929003

CLIENT ID: 29349-003

CONTRACT: BRKL00604

MATRIX: Water

DATE RECEIVED 10-NOV-11

LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429-90-5	Aluminum	760	ug/L			P	68	1	OPTIMA	120611B-1
7440-36-0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA	120611B-1
7440-38-2	Arsenic	2.03	ug/L	B		MS	1.7	1	ICPMS5	111205-2
7440-39-3	Barium	98.1	ug/L	B		P	1	1	OPTIMA	120611B-1
7440-41-7	Beryllium	1	ug/L	U		P	1	1	OPTIMA	120611B-1
7440-43-9	Cadmium	1	ug/L	U		P	1	1	OPTIMA	120611B-1
7440-70-2	Calcium	25300	ug/L			P	50	1	OPTIMA	120611B-1
7440-47-3	Chromium	5.2	ug/L	B		P	1	1	OPTIMA	120611B-1
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA	120611B-1
7440-50-8	Copper	256	ug/L			P	3	1	OPTIMA	120611B-1
7439-89-6	Iron	2540	ug/L			P	30	1	OPTIMA	120611B-1
7439-92-1	Lead	18.9	ug/L			MS	0.5	1	ICPMS6	111201-3
7439-95-4	Magnesium	5340	ug/L			P	110	1	OPTIMA	120611B-1
7439-96-5	Manganese	41.1	ug/L			P	2	1	OPTIMA	120611B-1
7439-97-6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	113011W1-4
7440-02-0	Nickel	10.6	ug/L	B		P	1.5	1	OPTIMA	120611B-1
7440-09-7	Potassium	6480	ug/L			P	50	1	OPTIMA	120611B-1
7782-49-2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	111205-2
7440-22-4	Silver	3.72	ug/L	B		P	1	1	OPTIMA	120611B-1
7440-23-5	Sodium	66700	ug/L			P	100	1	OPTIMA	120611B-1
7440-28-0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS6	111201-3
7440-31-5	Tin	12.5	ug/L	U		P	12.5	5	OPTIMA	120611B-1
7440-62-2	Vanadium	4.07	ug/L	B		P	1	1	OPTIMA	120611B-1
7440-66-6	Zinc	225	ug/L			P	3.3	1	OPTIMA	120611B-1

STP Influent
11/9/11
24 hour composite

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Contact: Upton, New York 11973--5000
Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	29343-001	Project:	BRKL00604
Sample ID:	289729001	Client ID:	BRKL006
Matrix:	W	COC:	29343
Collect Date:	07-NOV-11 11:10	Samp Recv.:	
Receive Date:	08-NOV-11 08:50	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 365.4 Phosphorus, Total in "As Received"											
Phosphorus, Total as P		1.39	0.015	0.050	mg/L	1	KLP1	11/15/11	1518	1160240	1
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids	U	-0.20	0.570	2.50	mg/L		LYG1	11/09/11	1100	1158836	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 PR	AXS5	11/15/11	1419	1160238

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 365.4	
2	SM 2540D	

Outfall 001

11/7/11

24 hour composite

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	29349-001	Project:	BRKL00604
Sample ID:	289929001	Client ID:	BRKL006
Matrix:	Water	COC:	29349
Collect Date:	09-NOV-11 11:00	Samp Recv.:	
Receive Date:	10-NOV-11 08:45	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 365.4 Phosphorus, Total in "As Received"											
Phosphorus, Total as P		1.09	0.015	0.050	mg/L	1	KLP1	11/15/11	1528	1160240	1
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids	U	0.289	0.549	2.41	mg/L		LYG1	11/14/11	1039	1160116	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 PR	AXS5	11/15/11	1419	1160238

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 365.4	
2	SM 2540D	

Outfall 001

11/9/11

24 hour composite

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Contact: Upton, New York 11973--5000
Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	29343-002	Project:	BRKL00604
Sample ID:	289729002	Client ID:	BRKL006
Matrix:	W	COC:	29343
Collect Date:	07-NOV-11 11:20	Samp Recv.:	
Receive Date:	08-NOV-11 08:50	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	U	0.972	1.50	5.00	ug/L	1	SDS	11/15/11	0832	1159232	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010C Distillation	SW846 9010C Prep	AXS5	11/14/11	1610	1159231

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9012B	

outfall 001
11/7/11
Grab

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000
Contact: Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	29349-002	Project:	BRKL00604
Sample ID:	289929002	Client ID:	BRKL006
Matrix:	Water	COC:	29349
Collect Date:	09-NOV-11 11:20	Samp Recv.:	
Receive Date:	10-NOV-11 08:45	Client Desc.:	STP Effluent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	J	1.55	1.50	5.00	ug/L	1	SDS	11/16/11	1328	1160085	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010C Distillation	SW846 9010C Prep	AXS5	11/15/11	1523	1160084

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9012B	

outfall 001
11/9/11
Crab

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Contact: Upton, New York 11973--5000
Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	29343-003	Project:	BRKL00604
Sample ID:	289729003	Client ID:	BRKL006
Matrix:	W	COC:	29343
Collect Date:	07-NOV-11 11:50	Samp Recv.:	
Receive Date:	08-NOV-11 08:50	Client Desc.:	STP Influent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids		48.4	2.28	10.0	mg/L		LYG1	11/09/11	1100	1158836	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 2540D	

STP Influent
11/7/11

24 hour composite

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000

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

Client Sample ID:	29349-003	Project:	BRKL00604
Sample ID:	289929003	Client ID:	BRKL006
Matrix:	Water	COC:	29349
Collect Date:	09-NOV-11 11:50	Samp Recv.:	
Receive Date:	10-NOV-11 08:45	Client Desc.:	STP Influent
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids		130	5.70	25.0	mg/L		LYG1	11/14/11	1039	1160116	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 2540D	

STP Influent
11/9/11
24 hour composite

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29343-1

METHOD TYPE: EPA

SAMPLE ID: 289895001

CLIENT ID: 29343-002

CONTRACT: BRKL00604

MATRIX: W

DATE RECEIVED 08-NOV-11

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>Inst ID</u>	<u>Analytical Run</u>
7439-97-6	Mercury	65.8	ng/L			AF	2	10	LLHG3	

*Analytical Methods:

P EPA 200.7
MS EPA 200.8
AV EPA 245.1/245.2
AF EPA 1631E

outfall 001
11/7/11

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29349-1

METHOD TYPE: EPA

SAMPLE ID: 290044001

CLIENT ID: 29349-002

CONTRACT: BRKL00604

MATRIX: W

DATE RECEIVED 10-NOV-11

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>Inst ID</u>	<u>Analytical Run</u>
7439-97-6	Mercury	84.5	ng/L			AF	2	10	LLHG3	

*Analytical Methods:

P EPA 200.7
MS EPA 200.8
AV EPA 245.1/245.2
AF EPA 1631E

Outfall 001
11/9/11

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29343-1

METHOD TYPE: EPA

SAMPLE ID: 289895002

CLIENT ID: 29343-005

CONTRACT: BRKL00604

MATRIX: W

DATE RECEIVED 08-NOV-11

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>Inst ID</u>	<u>Analytical Run</u>
7439-97-6	Mercury	57.1	ng/L			AF	0.2	1	LLHG3	

*Analytical Methods:

P EPA 200.7
MS EPA 200.8
AV EPA 245.1/245.2
AF EPA 1631E

STP Influent

11/7/11

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29349-1

METHOD TYPE: EPA

SAMPLE ID: 290044002

CLIENT ID: 29349-005

CONTRACT: BRKL00604

MATRIX:W

DATE RECEIVED 10-NOV-11

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>Inst ID</u>	<u>Analytical Run</u>
7439-97-6	Mercury	34.8	ng/L			AF	0.2	1	LLHG3	

*Analytical Methods:

P EPA 200.7
MS EPA 200.8
AV EPA 245.1/245.2
AF EPA 1631E

STP Influent
11/9/11

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

Attn: Mr. B. Lee (blee@bnl.gov)
 Phone: 1-631-344-3148

Reporting Date: 11/18/11
 Sample Matrix: Water
 Date Collected: 11/07/11
 Time Collected: See Below
 Collected by: R. Mebr
 Date Received: 11/08/11
 Time Received: 9:20am
 CHEMTEX File #: P11110166

RESULTS OF ANALYSIS
 PROJECT NAME: ES SPDES
 CHAIN OF CUSTODY NO: 29345

CHEMTEX ID	Sample ID	Parameter	Units	Results	RL	Qual
P11110166	STP Effluent (11:10)	HEDP as Organic Phosphorus	mg/l	<0.05	0.05	
		Inorganic Phosphorus	mg/l	0.516	0.05	
		Total Phosphorus	mg/l	0.688	0.05	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	
P11100167	FB-1 (10:00)	HEDP as Organic Phosphorus	mg/l	<0.05	0.05	
		Inorganic Phosphorus	mg/l	<0.05	0.05	
		Total Phosphorus	mg/l	<0.05	0.05	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	

Qualifier Definition:
 RL: Reporting Limit.

November
2011

LABORATORY QUALITY CONTROL DATA
 Method References/Analysis Dates & Analysts

Parameter	Method Reference	Date Analyzed/Analyzed By
Phosphorus	EPA Method 365.3	11/08/11 PSL
Tolytriazole(TTA)	SOP#: O121-049	11/09/11 SPR

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ATTACHMENT III

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR NOVEMBER 2011

ANALYTICAL RESULTS FROM

GENERAL ENGINEERING LABORATORIES, LLC,

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED FROM

OUTFALLS 002, 002B, 005, 006A, 006B, 008, and 010

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Contact: Upton, New York 11973--5000
Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	29335-005	Project:	BRKL00604
Sample ID:	289723005	Client ID:	BRKL006
Matrix:	W	COC:	29335
Collect Date:	03-NOV-11 14:52	Samp Recv.:	
Receive Date:	08-NOV-11 08:50	Client Desc.:	1004/1002
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received")											
Oil and Grease	J	1.53	1.12	4.02	mg/L		JXT1	11/16/11	0804	1161093	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 002B(1004/1002)
11/3/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000

Contact: Mr. John Burke

Project: ES SPDES - Summary

Client Sample ID:	29335-003	Project:	BRKL00604
Sample ID:	289723003	Client ID:	BRKL006
Matrix:	W	COC:	29335
Collect Date:	03-NOV-11 14:40	Samp Recv.:	
Receive Date:	08-NOV-11 08:50	Client Desc.:	HN
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received")											
Oil and Grease	U	0.741	1.15	4.12	mg/L		JXT1	11/16/11	0804	1161093	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 002 (HN)
11/3/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000

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

Client Sample ID:	29335-004	Project:	BRKL00604
Sample ID:	289723004	Client ID:	BRKL006
Matrix:	W	COC:	29335
Collect Date:	03-NOV-11 14:22	Samp Recv.:	
Receive Date:	08-NOV-11 08:50	Client Desc.:	HS
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received")											
Oil and Grease	J	1.87	1.14	4.07	mg/L		JXT1	11/16/11	0804	1161093	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 005 (HS)
11/3/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000

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

Client Sample ID:	29335-001	Project:	BRKL00604
Sample ID:	289723001	Client ID:	BRKL006
Matrix:	W	COC:	29335
Collect Date:	03-NOV-11 14:30	Samp Recv.:	
Receive Date:	08-NOV-11 08:50	Client Desc.:	HT-W
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received")											
Oil and Grease	J	1.49	1.16	4.13	mg/L		JXT1	11/16/11	0804	1161093	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 006A (HT-W)

11/3/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000

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

Client Sample ID:	29335-002	Project:	BRKL00604
Sample ID:	289723002	Client ID:	BRKL006
Matrix:	W	COC:	29335
Collect Date:	03-NOV-11 14:35	Samp Recv.:	
Receive Date:	08-NOV-11 08:50	Client Desc.:	HT-E
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received")											
Oil and Grease	U	1.05	1.13	4.03	mg/L		JXT1	11/16/11	0804	1161093	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 006B (HT-E)
11/3/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Contact: Upton, New York 11973--5000
Mr. John Burke
Project: ES SPDES - Summary

Client Sample ID:	29359-002	Project:	BRKL00604
Sample ID:	290385002	Client ID:	BRKL006
Matrix:	W	COC:	29359
Collect Date:	10-NOV-11 15:10	Samp Recv.:	
Receive Date:	16-NOV-11 09:00	Client Desc.:	HW
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received")											
Oil and Grease	J	2.35	1.13	4.05	mg/L		JXT1	11/25/11	0708	1164333	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 008 (HW)
11/10/11

Volatile
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 29359	Date Collected: 11/10/2011 15:10	Matrix: W
Lab Sample ID: 290385002	Date Received: 11/16/2011 09:00	
Client Sample: HW	Client: BRKL006	Project: BRKL00604
Client ID: 29359-002	Method: EPA 624	SOP Ref: GL-OA-E-026
Batch ID: 1161818	Inst: VOA6.1	Dilution: 1
Run Date: 11/17/2011 15:29	Analyst: RXDI	Purge Vol: 5 mL
Prep Date: 11/17/2011 15:29		
Data File: 111711V6\6M411.D	Column: DB-624	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.300	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	0.300	1.00	10.0
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	10.0
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.300	1.00	5.00
75-05-8	Acetonitrile	U	25.0	ug/L	6.25	25.0	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	0.325	1.00	5.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.300	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	U	1.00	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	0.300	1.00	5.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.300	1.00	5.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	5.00
100-41-4	Ethylbenzene	J	1.23	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)

11/10/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2011

Company : Brookhaven National Laboratory
Address : Building 462

Upton, New York 11973--5000

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

Client Sample ID:	29359-003	Project:	BRKL00604
Sample ID:	290385003	Client ID:	BRKL006
Matrix:	W	COC:	29359
Collect Date:	10-NOV-11 15:00	Samp Recv.:	
Receive Date:	16-NOV-11 09:00	Client Desc.:	CSF-Outfall
Collector:	Client	Vol. Recv.:	

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Oil & Grease Analysis											
EPA 1664A n-Hexane Extractable Material (Oil and G "As Received")											
Oil and Grease	J	1.98	1.16	4.13	mg/L		JXT1	11/25/11	0708	1164333	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 010 (CSF)
11/18/11