Environmental Protection Division

BROOKHAVEN
NATIONAL LABORATORY

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

September 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 August 2011

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

NSF
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
Manager
Environmental Protection Division

Attachment I: Discharge Monitoring Report for August 2011.

Attachment II: Analytical Results from H2M Labs Inc. and General Engineering Laboratories, LLC for samples collected on 8/1/11 and 8/3/11 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 August 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 AUGUST 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

NY0005835	001-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	******	77		0	01/01	GR
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	90 DAILY MX	deg F		Daily	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	******	<2		0	02/30	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	mg/L		Monthly	COMP24
pH	SAMPLE MEASUREMENT	******	******	******	6.7	******	7.1		0	01/01	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5.8 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	<0.5		0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	20 DAILY MX	mg/L		Monthly	COMP24
Solids, settleable	SAMPLE MEASUREMENT	******	******	******	******	******	0.0		0	01/01	GR
00545 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.1 DAILY MX	mL/L		Daily	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	18	******	******	******	******	******	0	02/30	24
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	******	20 DAILY MX	lb/d	******	******	******	******		Monthly	COMP24
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	3		0	02/30	24
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	10 DAILY MX	mg/L		Monthly	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert J. Lee, P.E. 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	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148	9/21/11
Typed or Printed			Area Code | Number	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 65812.

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

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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		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	0.4		0	02/30	24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1.5 DAILY MX	mg/L		Monthly	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	******	******	******	******	******	0.9		0	02/30	24
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	mg/L		Monthly	COMP24
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	<1.5		0	02/30	GR
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	100 DAILY MX	ug/L		Twice Per Month	GRAB
Copper, total (as Cu) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	0.022		0	02/30	24
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.15 DAILY MX	mg/L		Monthly	COMP24
Iron, total (as Fe) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	0.140		0	02/30	24
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.37 DAILY MX	mg/L		Monthly	COMP24
Lead, total (as Pb) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	0.002		0	02/30	24
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.019 DAILY MX	mg/L		Monthly	COMP24
Nickel, total (as Ni) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	0.0035		0	02/30	24
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.11 DAILY MX	mg/L		Monthly	COMP24

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Robert J. Lee, P.E. 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	Robert J. Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	9/21/11 MM/DD/YYYY
Typed or Printed				

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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

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NY0005835	001-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Silver, total (as Ag) SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	0.003		0	02/30	24
01077 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.015 DAILY MX	mg/L		Monthly	COMP24
Zinc, total (as Zn)	SAMPLE MEASUREMENT	******	******	******	******	******	0.03		0	02/30	24
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	0.1 DAILY MX	mg/L		Monthly	COMP24
Toluene	SAMPLE MEASUREMENT	******	******	******	******	******	<1		0	02/30	GR
34010 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	ug/L		Twice Per Month	GRAB
Methylene chloride	SAMPLE MEASUREMENT	******	******	******	******	******	<2		0	02/30	GR
34423 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	ug/L		Twice Per Month	GRAB
1, 1, 1 - Trichloroethane	SAMPLE MEASUREMENT	******	******	******	******	******	<1		0	02/30	GR
34506 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	ug/L		Twice Per Month	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.57	0.89		******	******	******	******	0	99/99	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	2.3 DAILY MX	Mgal/d	******	******	******	******		Continuous	RCORDR
Mercury, total (as Hg)	SAMPLE MEASUREMENT	******	******	******	******	******	110		0	02/30	24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	200 DAILY MX	ng/L		Monthly	COMP24

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

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UPTON, NY 11973
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ATTN: MICHAEL HOLLAND, OFFICE MGR

NY0005835	001-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	<2	<2		0	02/30	GR
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 DAILY AV	400 DAILY MX	#/100mL		Monthly	GRAB
2 - Butanone	SAMPLE MEASUREMENT	******	******	******	******	******	<5		0	02/30	GR
78356 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Twice Per Month	GRAB
BOD, 5-day, percent removal	SAMPLE MEASUREMENT	******	******	******	>97	******	******		0	01/30	CA
81010 K 0 Percent Removal	PERMIT REQUIREMENT	******	******	******	85 MO AV MN	******	******	%		Monthly	CALCTD
Solids, suspended percent removal	SAMPLE MEASUREMENT	******	******	******	>99	******	******		0	01/30	CA
81011 K 0 Percent Removal	PERMIT REQUIREMENT	******	******	******	85 MO AV MN	******	******	%		Monthly	CALCTD
HEDP	SAMPLE MEASUREMENT	******	******	******	******	******	<0.25		0	01/30	24
85812 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	mg/L		Monthly	COMP24
Tolytriazole	SAMPLE MEASUREMENT	******	******	******	******	******	<0.005		0	01/30	24
85813 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. DAILY MX	mg/L		Monthly	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
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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)

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 85812.

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	002-B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******	8.5	******	8.5		0	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	<1.2		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant SEE NOTE #3	SAMPLE MEASUREMENT	******	0.00009		******	******	******	******	0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert J. Lee, P.E. 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	Robert J. Lee	631-344-3148	9/21/11
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 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	002-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******	7.1	******	7.4		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	1.1		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	1.0	******		******	******	******	******	0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	******	Mgal/d	******	******	******	******		Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert J. Lee, P.E. 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	Robert J Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148	9/21/11
Typed or Printed			Area Code | Number	MM/DD/YYYY

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

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

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

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

NY0005835	005-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******	6.8	******	7.5		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	8.5 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	1.5		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.55	******		******	******	******		0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AV	******	Mgal/d	******	******	******			Monthly	RCORDR

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SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS, AND REQUIREMENTS.

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MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate	SAMPLE MEASUREMENT	******	120000		******	******	******	******	0	15/30	IN
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Req. Mon. DAILY MX	gal/d	******	******	******	******		Monthly	INSTAN
pH	SAMPLE MEASUREMENT	******	******	******	7.2	******	7.2		0	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert J. Lee, P.E. 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	Robert J. Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	9/21/11 MM/DD/YYYY
Typed or Printed				

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 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	008-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate SEE NOTE #2	SAMPLE MEASUREMENT	******	123500		******	******	******		0	01/30	IN
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Req. Mon. DAILY MX	gal/d	******	******	******			Monthly	INSTAN
pH	SAMPLE MEASUREMENT	******	******	******	7.1	******	7.1		0	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	8.5 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	1.2		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
1, 1 - Dichloroethylene	SAMPLE MEASUREMENT	******	******	******	******	******	<1		0	01/30	GR
34501 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	ug/L		Monthly	GRAB
1, 1, 1 - Trichloroethane	SAMPLE MEASUREMENT	******	******	******	******	******	<1		0	01/30	GR
34506 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	5 DAILY MX	ug/L		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert J. Lee, P.E. 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	Robert J. Lee SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	9/21/11 MM/DD/YYYY
Typed or Printed				

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	010-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate SEE NOTE #2	SAMPLE MEASUREMENT	******	14500		******	******	******		0	01/30	IN
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Req. Mon. DAILY MX	gal/d	******	******	******			Monthly	INSTAN
pH	SAMPLE MEASUREMENT	******	******	******	8.0	******	8.0		0	01/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	8.5 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	1.2		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert J. Lee, P.E. 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	Robert J. Lee	631-344-3148	9/21/11
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)
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

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******	7.6	******	7.8		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	9 MAXIMUM	SU		Once Per Month	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	1.5		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Once Per Month	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.17	******		******	******	******	******	0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	******	Mgal/d	******	******	******	******		Once Per Month	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert J. Lee, P.E. 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	Robert J. Lee	631-344-3148	9/21/11
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

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

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

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******	7.5	******	7.8		0	04/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Oil & grease SEE NOTE #1	SAMPLE MEASUREMENT	******	******	******	******	******	1.4		0	01/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.11	******		******	******	******	******	0	04/30	RC
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	******	Mgal/d	******	******	******	******		Monthly	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Robert J. Lee, P.E. 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	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	631-344-3148 Area Code | Number	9/21/11 MM/DD/YYYY
Typed or Printed				

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 AUGUST 2011

ANALYTICAL RESULTS FROM H2M LABS

AND GENERAL ENGINEERING LABORATORIES, LLC

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

8/1/11 and 8/3/11

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. : 1108018-001

ClientSample ID. : 29077-001

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

Sample Information...
Type : Aqueous

Origin:

Collected : 8/1/2011 10:50:00 AM
Received : 8/1/2011 3:32:00 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	08/03/2011 9:10 AM
Nitrogen, Ammonia (As N)	< 0.10		1	mg/L	SM4500-NH3 H	08/09/2011 10:52 AM
Nitrite as N	< 0.01		1	mg/L	E353.2	08/02/2011 10:29 AM
Nitrate as N	2.01	D	5	mg/L	E353.2	08/02/2011 3:11 PM
Nitrogen, Total	2.41		1	mg/L	M4500-N C	08/09/2011
Nitrogen, Kjeldahl, Total	0.40		1	mg/L	E351.2	08/03/2011 5:14 PM

Outfall 001
~~8/3/11~~ 8/1/11
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. Alvin
Laboratory Manager

Date Reported : 8/16/2011

BNLS948 A20

H2M 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. : **1108161-001**

ClientSample ID. : 29089-001

Sample Information...
Type : Aqueous

Origin:

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

Collected : 8/3/2011 10:20:00 AM
Received : 8/3/2011 3:35:00 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	08/04/2011 1:30 PM
Nitrogen, Ammonia (As N)	0.36		1	mg/L	SM4500-NH3 H	08/09/2011 10:56 AM
Nitrite as N	< 0.01		1	mg/L	E353.2	08/04/2011 9:06 AM
Nitrate as N	3.01	D	5	mg/L	E353.2	08/04/2011 11:44 AM
Nitrogen, Total	3.49		1	mg/L	M4500-N C	08/11/2011
Nitrogen, Kjeldahl, Total	0.48		1	mg/L	E351.2	08/10/2011 3:19 PM

Outfall 007
8/3/11
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. Slavin
Laboratory Manager

Date Reported : 8/16/2011

BNLS948 A24

H2M 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. : 1108018-002

ClientSample ID. : 29077-002

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

Sample Information...
Type : Aqueous

Origin:

Collected : 8/1/2011 11:00:00 AM
Received : 8/1/2011 3:32:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Total Coliform	< 2		1	MPN	SM9221BE	08/01/2011 4:00 PM
Fecal Coliform	< 2		1	MPN	SM9221BE	08/01/2011 4:00 PM

Outfall 001
~~8/3/11~~
8/1/11

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

Joanne M. Stevens
Laboratory Manager

Date Reported : 8/16/2011

BNLS948 A21

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. : 1108161-002

ClientSample ID. : 29089-002

Sample Information...
Type : Aqueous

Origin:

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

Collected : 8/3/2011 10:25:00 AM
Received : 8/3/2011 3:35:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Total Coliform	23		1	MPN	SM9221BE	08/03/2011 4:00 PM
Fecal Coliform	< 2		1	MPN	SM9221BE	08/03/2011 4:00 PM

Outfall 001
8/3/11

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

Joann M. Slavin
Laboratory Manager

Date Reported : 8/16/2011

BNLS948 A25

H2M 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. : 1108018-003

ClientSample ID. : 29077-003

Sample Information...
Type : Aqueous

Origin:

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

Collected : 8/1/2011 11:20:00 AM
Received : 8/1/2011 3:32:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	61		1	mg/L	SM5210B	08/03/2011 9:20 AM

STP Influent
~~8/3/11~~ 8/1/11
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. Stevens
Laboratory Manager

Date Reported : 8/16/2011

BNLS948 A22

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. : 1108161-003

ClientSample ID. : 29089-003

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

Sample Information...
Type : Aqueous

Origin:

Collected : 8/3/2011 10:40:00 AM
Received : 8/3/2011 3:35:00 PM
Collected By CLIENT
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Biochemical Oxygen Demand	64		1	mg/L	SM5210B	08/04/2011 1:35 PM

STP Influent
8/3/11
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. Slavin
Laboratory Manager

Date Reported : 8/16/2011

BNLS948 A26

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	29076	Date Collected:	08/01/2011 11:00	Matrix:	WATER
Lab Sample ID:	283146002	Date Received:	08/02/2011 09:55		
Client Sample:	STP Effluent	Client:	BRKL006	Project:	BRKL00604
Client ID:	29076-002	Method:	EPA 624	SOP Ref:	GL-OA-E-026
Batch ID:	1129055	Inst:	VOA7.I	Dilution:	1
Run Date:	08/04/2011 15:00	Analyst:	RXD1	Purge Vol:	5 mL
Prep Date:	08/04/2011 15:00				
Data File:	080411V7\7W414.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
8/1/11

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	29088	Date Collected:	08/03/2011 10:25	Matrix:	W
Lab Sample ID:	283326002	Date Received:	08/04/2011 09:00		
Client Sample:	STP Effluent	Client:	BRKL006	Project:	BRKL00604
Client ID:	29088-002	Method:	EPA 624	SOP Ref:	GL-OA-E-026
Batch ID:	1129715	Inst:	VOA3.I	Dilution:	1
Run Date:	08/06/2011 13:28	Analyst:	GRB2	Purge Vol:	5 mL
Prep Date:	08/06/2011 13:28				
Data File:	080611V3\3X615.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
8/3/11

METALS
–1–
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29076 **METHOD TYPE:** SW846

SAMPLE ID: 283146001 **CLIENT ID:** 29076–001

CONTRACT: BRKL00604

MATRIX: Water **DATE RECEIVED** 02–AUG–11 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429–90–5	Aluminum	68	ug/L	U		P	68	1	OPTIMA	081011–1
7440–36–0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA	081011–1
7440–38–2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110811–2
7440–39–3	Barium	27.1	ug/L	B		P	1	1	OPTIMA	081011–1
7440–41–7	Beryllium	1	ug/L	U		P	1	1	OPTIMA	081011–1
7440–43–9	Cadmium	1	ug/L	U		P	1	1	OPTIMA	081011–1
7440–70–2	Calcium	14900	ug/L			P	50	1	OPTIMA	081011–1
7440–47–3	Chromium	1	ug/L	U		P	1	1	OPTIMA	081011–1
7440–48–4	Cobalt	1	ug/L	U		P	1	1	OPTIMA	081011–1
7440–50–8	Copper	15.1	ug/L	B		P	3	1	OPTIMA	081011–1
7439–89–6	Iron	170	ug/L			P	30	1	OPTIMA	081011–1
7439–92–1	Lead	1.26	ug/L	B		MS	0.5	1	ICPMS5	110811–2
7439–95–4	Magnesium	4160	ug/L	B		P	110	1	OPTIMA	081011–1
7439–96–5	Manganese	2	ug/L	U		P	2	1	OPTIMA	081011–1
7439–97–6	Mercury	0.066	ug/L	U		AV	0.066	1	HG3	081711W1–3
7440–02–0	Nickel	3.47	ug/L	B		P	1.5	1	OPTIMA	081011–1
7440–09–7	Potassium	7570	ug/L			P	50	1	OPTIMA	081011–1
7782–49–2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110811–2
7440–22–4	Silver	1.39	ug/L	B		P	1	1	OPTIMA	081011–1
7440–23–5	Sodium	41500	ug/L			P	100	1	OPTIMA	081011–1
7440–28–0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110811–2
7440–31–5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA	081011–1
7440–62–2	Vanadium	1.36	ug/L	B		P	1	1	OPTIMA	081011–1
7440–66–6	Zinc	16.8	ug/L	B		P	3.3	1	OPTIMA	081011–1

Outfall 001
8/1/11
24 hour composite

METALS
–1–
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29088 **METHOD TYPE:** SW846

SAMPLE ID: 283326001 **CLIENT ID:** 29088–001

CONTRACT: BRKL00604

MATRIX: W **DATE RECEIVED** 04–AUG–11 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429–90–5	Aluminum	68	ug/L	U		P	68	1	OPTIMA	082411–1
7440–36–0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA	082411–1
7440–38–2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110824–2
7440–39–3	Barium	22.7	ug/L	B		P	1	1	OPTIMA	082411–1
7440–41–7	Beryllium	1	ug/L	U		P	1	1	OPTIMA	082411–1
7440–43–9	Cadmium	1	ug/L	U		P	1	1	OPTIMA	082411–1
7440–70–2	Calcium	14600	ug/L			P	50	1	OPTIMA	082411–1
7440–47–3	Chromium	1.39	ug/L	B		P	1	1	OPTIMA	082411–1
7440–48–4	Cobalt	1	ug/L	U		P	1	1	OPTIMA	082411–1
7440–50–8	Copper	21.8	ug/L	B		P	3	1	OPTIMA	082411–1
7439–89–6	Iron	142	ug/L			P	30	1	OPTIMA	082411–1
7439–92–1	Lead	2.03	ug/L	B		MS	0.5	1	ICPMS5	110824–2
7439–95–4	Magnesium	3660	ug/L	B		P	110	1	OPTIMA	082411–1
7439–96–5	Manganese	3.39	ug/L	B		P	2	1	OPTIMA	082411–1
7439–97–6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	081911W1–3
7440–02–0	Nickel	3.26	ug/L	B		P	1.5	1	OPTIMA	082411–1
7440–09–7	Potassium	6780	ug/L			P	50	1	OPTIMA	082411–1
7782–49–2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110824–2
7440–22–4	Silver	3.02	ug/L	B		P	1	1	OPTIMA	082411–1
7440–23–5	Sodium	41200	ug/L			P	100	1	OPTIMA	082411–1
7440–28–0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110824–2
7440–31–5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA	082411–1
7440–62–2	Vanadium	3.27	ug/L	B		P	1	1	OPTIMA	082411–1
7440–66–6	Zinc	27.6	ug/L			P	3.3	1	OPTIMA	082411–1

Outfall 001
8/3/11
24 hour composite

METALS
–1–
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29076 **METHOD TYPE:** SW846

SAMPLE ID: 283146003 **CLIENT ID:** 29076–003

CONTRACT: BRKL00604

MATRIX: Water **DATE RECEIVED** 02–AUG–11 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429–90–5	Aluminum	189	ug/L	B		P	68	1	OPTIMA	081011–1
7440–36–0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA	081011–1
7440–38–2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110811–2
7440–39–3	Barium	44.1	ug/L	B		P	1	1	OPTIMA	081011–1
7440–41–7	Beryllium	1	ug/L	U		P	1	1	OPTIMA	081011–1
7440–43–9	Cadmium	1	ug/L	U		P	1	1	OPTIMA	081011–1
7440–70–2	Calcium	14400	ug/L			P	50	1	OPTIMA	081011–1
7440–47–3	Chromium	1	ug/L	U		P	1	1	OPTIMA	081011–1
7440–48–4	Cobalt	1	ug/L	U		P	1	1	OPTIMA	081011–1
7440–50–8	Copper	51.4	ug/L			P	3	1	OPTIMA	081011–1
7439–89–6	Iron	911	ug/L			P	30	1	OPTIMA	081011–1
7439–92–1	Lead	15.4	ug/L			MS	0.5	1	ICPMS5	110811–2
7439–95–4	Magnesium	4410	ug/L	B		P	110	1	OPTIMA	081011–1
7439–96–5	Manganese	32.8	ug/L			P	2	1	OPTIMA	081011–1
7439–97–6	Mercury	0.066	ug/L	U		AV	0.066	1	HG3	081711W1–3
7440–02–0	Nickel	3.95	ug/L	B		P	1.5	1	OPTIMA	081011–1
7440–09–7	Potassium	4430	ug/L	B		P	50	1	OPTIMA	081011–1
7782–49–2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110811–2
7440–22–4	Silver	1	ug/L	U		P	1	1	OPTIMA	081011–1
7440–23–5	Sodium	51500	ug/L			P	100	1	OPTIMA	081011–1
7440–28–0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110811–2
7440–31–5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA	081011–1
7440–62–2	Vanadium	1	ug/L	U		P	1	1	OPTIMA	081011–1
7440–66–6	Zinc	132	ug/L			P	3.3	1	OPTIMA	081011–1

STP Influent
8/1/11
24 hour composite

METALS
–1–
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 29088 **METHOD TYPE:** SW846

SAMPLE ID: 283326003 **CLIENT ID:** 29088–003

CONTRACT: BRKL00604

MATRIX: W **DATE RECEIVED** 04–AUG–11 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429–90–5	Aluminum	505	ug/L			P	68	1	OPTIMA	082411–1
7440–36–0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA	082411–1
7440–38–2	Arsenic	1.7	ug/L	U		MS	1.7	1	ICPMS5	110824–2
7440–39–3	Barium	110	ug/L	B		P	1	1	OPTIMA	082411–1
7440–41–7	Beryllium	1	ug/L	U		P	1	1	OPTIMA	082411–1
7440–43–9	Cadmium	1	ug/L	U		P	1	1	OPTIMA	082411–1
7440–70–2	Calcium	13900	ug/L			P	50	1	OPTIMA	082411–1
7440–47–3	Chromium	3.91	ug/L	B		P	1	1	OPTIMA	082411–1
7440–48–4	Cobalt	1	ug/L	U		P	1	1	OPTIMA	082411–1
7440–50–8	Copper	336	ug/L			P	3	1	OPTIMA	082411–1
7439–89–6	Iron	1570	ug/L			P	30	1	OPTIMA	082411–1
7439–92–1	Lead	41.5	ug/L			MS	0.5	1	ICPMS5	110824–2
7439–95–4	Magnesium	4250	ug/L	B		P	110	1	OPTIMA	082411–1
7439–96–5	Manganese	33.5	ug/L			P	2	1	OPTIMA	082411–1
7439–97–6	Mercury	0.066	ug/L	U		AV	0.066	1	MER536	081911W1–3
7440–02–0	Nickel	7.34	ug/L	B		P	1.5	1	OPTIMA	082411–1
7440–09–7	Potassium	6150	ug/L			P	50	1	OPTIMA	082411–1
7782–49–2	Selenium	1.5	ug/L	U		MS	1.5	1	ICPMS5	110824–2
7440–22–4	Silver	1.96	ug/L	B		P	1	1	OPTIMA	082411–1
7440–23–5	Sodium	38300	ug/L			P	100	1	OPTIMA	082411–1
7440–28–0	Thallium	0.45	ug/L	U		MS	0.45	1	ICPMS5	110824–2
7440–31–5	Tin	3.99	ug/L	B		P	2.5	1	OPTIMA	082411–1
7440–62–2	Vanadium	2.84	ug/L	B		P	1	1	OPTIMA	082411–1
7440–66–6	Zinc	261	ug/L			P	3.3	1	OPTIMA	082411–1

STP Influent
8/3/11
24 hour composite

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 30, 2011

Company : Brookhaven National Laboratory
Address : Building 462

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

Client Sample ID:	29076-001	Project:	BRKL00604
Sample ID:	283146001	Client ID:	BRKL006
Matrix:	Water	COC:	29076
Collect Date:	01-AUG-11 10:50	Samp Recv.:	
Receive Date:	02-AUG-11 09:55	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		0.923	0.015	0.050	mg/L	1	KLP1	08/29/11	1120	1131886	1
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids	U	0.130	0.371	2.00	mg/L		LYG1	08/03/11	1039	1128377	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	08/26/11	1607	1131880

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 365.4	
2	SM 2540D	

Outfall 001
8/1/11
24 hour Composite

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Certificate of Analysis

Report Date: August 30, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29088-001	Project:	BRKL00604
Sample ID:	283326001	Client ID:	BRKL006
Matrix:	W	COC:	29088
Collect Date:	03-AUG-11 10:20	Samp Recv.:	
Receive Date:	04-AUG-11 09:00	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		0.972	0.015	0.050	mg/L	1	KLP1	08/29/11	1124	1131886	1
Solids Analysis											
SM 2540D Total Suspended Liq "As Received"											
Total Suspended Solids	U	0.201	0.573	2.52	mg/L		LYG1	08/08/11	1518	1129976	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	08/26/11	1607	1131880

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 365.4	
2	SM 2540D	

Outfall 001
8/3/11
24 hour composite

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Certificate of Analysis

Report Date: August 30, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29076-002	Project:	BRKL00604
Sample ID:	283146002	Client ID:	BRKL006
Matrix:	Water	COC:	29076
Collect Date:	01-AUG-11 11:00	Samp Recv.:	
Receive Date:	02-AUG-11 09:55	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	0.173	1.50	5.00	ug/L	1	SDS	08/11/11	1140	1130180	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	08/10/11	1631	1130179

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9012A	

Outfall 001
8/1/11
Grab

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Certificate of Analysis

Report Date: August 30, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29088-002	Project:	BRKL00604
Sample ID:	283326002	Client ID:	BRKL006
Matrix:	W	COC:	29088
Collect Date:	03-AUG-11 10:25	Samp Recv.:	
Receive Date:	04-AUG-11 09:00	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	-1.78	1.50	5.00	ug/L	1	SDS	08/11/11	1143	1130180	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	08/10/11	1631	1130179

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9012A	

Outfall 001
8/3/11
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Certificate of Analysis

Report Date: August 30, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29076-003	Project:	BRKL00604
Sample ID:	283146003	Client ID:	BRKL006
Matrix:	Water	COC:	29076
Collect Date:	01-AUG-11 11:20	Samp Recv.:	
Receive Date:	02-AUG-11 09:55	Client Desc.:	STP Effluent
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		117	3.54	15.5	mg/L		LYG1	08/03/11	1039	1128377	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 2540D	

STP Influent
8/1/11
24 hour Composite

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 30, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29088-003	Project:	BRKL00604
Sample ID:	283326003	Client ID:	BRKL006
Matrix:	W	COC:	29088
Collect Date:	03-AUG-11 10:40	Samp Recv.:	
Receive Date:	04-AUG-11 09:00	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		139	6.95	30.5	mg/L		LYG1	08/08/11	1518	1129976	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 2540D	

STP Influent
8/3/11
24 hour composite

ANALYTICAL RESULTS

Lab Order: L080229
Project ID ES SPDES

Outfall 001 8/3/11 43 ppt

Lab ID: L080229001 **Date Collected:** 8/3/2011 10:20 **Matrix:** Water
Sample ID: STP EFFLUENT/001 **Date Received:** 8/4/2011 09:15

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Mercury Analysis, Trace Level		**Prep Method:**	EPA 1631E			**Prep by:** UK				
		Analytical Method:	EPA 1631E					**Analyzed by:** LM		
Mercury	0.043	ug/L	0.0005	0.00020	1	08/15/11 00:00	MPR 10151	08/16/11 10:29	MHG 3629	

Lab ID: L080229002 **Date Collected:** 8/3/2011 10:45 **Matrix:** Water
Sample ID: STP INFLUENT/002 **Date Received:** 8/4/2011 09:15

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Mercury Analysis, Trace Level		**Prep Method:**	EPA 1631E			**Prep by:** UK				
		Analytical Method:	EPA 1631E					**Analyzed by:** LM		
Mercury	4.7	ug/L	0.050	0.020	100	08/15/11 00:00	MPR 10151	08/16/11 10:29	MHG 3629	

Lab ID: L080229003 **Date Collected:** 8/3/2011 10:00 **Matrix:** Water
Sample ID: FB-1/003 **Date Received:** 8/4/2011 09:15

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Mercury Analysis, Trace Level		**Prep Method:**	EPA 1631E			**Prep by:** UK				
		Analytical Method:	EPA 1631E					**Analyzed by:** LM		
Mercury	ND	ug/L	0.0005	0.00020	1	08/15/11 00:00	MPR 10151	08/16/11 10:29	MHG 3629	1

Lab ID: L080229004 **Date Collected:** 8/3/2011 10:22 **Matrix:** Water
Sample ID: EB-1/004 **Date Received:** 8/4/2011 09:15

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Mercury Analysis, Trace Level		**Prep Method:**	EPA 1631E			**Prep by:** UK				
		Analytical Method:	EPA 1631E					**Analyzed by:** LM		
Mercury	ND	ug/L	0.0005	0.00020	1	08/15/11 00:00	MPR 10151	08/16/11 10:29	MHG 3629	1

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ANALYTICAL RESULTS

Lab Order: L080251

Project ID ES SPDES

outfall 001 8/3/11 110ppt

Lab ID: L080251001 **Date Collected:** 8/1/2011 11:00 **Matrix:** Water

Sample ID: STP EFFLUENT/002 **Date Received:** 8/3/2011 14:00

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Mercury Analysis, Trace Level		**Prep Method:**	EPA 1631E			**Prep by:** UK				
		Analytical Method:	EPA 1631E					**Analyzed by:** LM		
Mercury	0.11	ug/L	0.0015	0.00060	3	08/15/11 00:00	MPR 10151	08/16/11 10:29	MHG 3629	

Lab ID: L080251002 **Date Collected:** 8/1/2011 11:25 **Matrix:** Water

Sample ID: STP INFLUENT/005 **Date Received:** 8/3/2011 14:00

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Mercury Analysis, Trace Level		**Prep Method:**	EPA 1631E			**Prep by:** UK				
		Analytical Method:	EPA 1631E					**Analyzed by:** LM		
Mercury	0.48	ug/L	0.0025	0.0010	5	08/15/11 00:00	MPR 10151	08/16/11 10:29	MHG 3629	

Lab ID: L080251003 **Date Collected:** 8/1/2011 10:00 **Matrix:** Water

Sample ID: FB-1/006 **Date Received:** 8/3/2011 14:00

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Mercury Analysis, Trace Level		**Prep Method:**	EPA 1631E			**Prep by:** UK				
		Analytical Method:	EPA 1631E					**Analyzed by:** LM		
Mercury	ND	ug/L	0.0005	0.00020	1	08/10/11 00:00	MPR 10136	08/11/11 10:34	MHG 3626	1

Lab ID: L080251004 **Date Collected:** 8/1/2011 10:55 **Matrix:** Water

Sample ID: EB-1/007 **Date Received:** 8/3/2011 14:00

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Mercury Analysis, Trace Level		**Prep Method:**	EPA 1631E			**Prep by:** UK				
		Analytical Method:	EPA 1631E					**Analyzed by:** LM		
Mercury	ND	ug/L	0.0005	0.00020	1	08/10/11 00:00	MPR 10136	08/11/11 10:34	MHG 3626	1

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CHEMTEX
Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, Texas 77642 • (409) 983-4575 FAX (409) 982-1522
5544 Leopard Street, Corpus Christi, Texas 78408 • (361) 299-9900 FAX (361) 299-1155
138 S. Cities Service Hwy., Sulphur, Louisiana 70663 • (337) 626-2121 FAX (337) 626-2126

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

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

Reporting Date: 08/10/11
Sample Matrix: Water
Date Collected: 08/01/11
Time Collected: See Below
Collected by: Client
Date Received: 08/03/11
Time Received: 9:45am
CHEMTEX File #: P11080060

RESULTS OF ANALYSIS
PROJECT NAME: ES SPDES
CHAIN OF CUSTODY NO: 29078

CHEMTEX ID	Sample ID	Parameter	Units	Results	RL	Qual
P11080060	STP Effluent (10:50)	HEDP as Organic Phosphorus	mg/l	<0.25	0.25	
		Inorganic Phosphorus	mg/l	1.09	0.25	
		Total Phosphorus	mg/l	1.16	0.25	
		Tolytriazole(TTA)	mg/l	<0.005	0.005	
P11080061	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	

RL: Reporting Limit.

Qualifier Definition:

LABORATORY QUALITY CONTROL DATA
Method References/Analysis Dates & Analysts

Parameter	Method Reference	Date Analyzed/Analyzed By
Phosphorus	EPA Method 365.3	08/04/11 YS
Tolytriazole(TTA)	SOP#: O121-049	08/04/11 SPR

Outfall 001
8/1/11

NOTICE/DISCLAIMER: The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. No person or entity other than the client may relay on this report. Any such reliance will be unjustified. Any person other than the client, that reads this report does so at his or her own risk. The analytical results, opinions and/or interpretations expressed herein represent the best judgement of Chemtex, based on the information and instructions received from the client. Chemtex makes no warranty or representation, express or implied, of any type, and expressly disclaims same. This report shall not be reproduced, in whole or in part, without the written approval of Chemtex. In no event shall Chemtex be responsible for any damage greater than the amount that it received for the analysis per formed.

ATTACHMENT III

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR AUGUST 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: September 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:	29119-001	Project:	BRKL00604
Sample ID:	284121001	Client ID:	BRKL006
Matrix:	W	COC:	29119
Collect Date:	15-AUG-11 11:00	Samp Recv.:	
Receive Date:	16-AUG-11 09:00	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	U	1.02	1.19	4.24	mg/L		JXT1	08/31/11	0735	1137714	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 002B (1004/1002)
8/15/11

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 29, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29106-003	Project:	BRKL00604
Sample ID:	283580003	Client ID:	BRKL006
Matrix:	W	COC:	29106
Collect Date:	05-AUG-11 10:50	Samp Recv.:	
Receive Date:	06-AUG-11 09:40	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	J	1.12	1.12	4.02	mg/L		JXT1	08/25/11	0547	1135888	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 002 (HN)

8/5/11

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Report Date: August 29, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29106-004	Project:	BRKL00604
Sample ID:	283580004	Client ID:	BRKL006
Matrix:	W	COC:	29106
Collect Date:	05-AUG-11 09:50	Samp Recv.:	
Receive Date:	06-AUG-11 09:40	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	1.46	1.13	4.05	mg/L		JXT1	08/25/11	0547	1135888	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 005 (HS)

8/5/11

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Certificate of Analysis

Report Date: August 29, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29106-001	Project:	BRKL00604
Sample ID:	283580001	Client ID:	BRKL006
Matrix:	W	COC:	29106
Collect Date:	05-AUG-11 10:30	Samp Recv.:	
Receive Date:	06-AUG-11 09:40	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	1.45	1.20	4.27	mg/L		JXT1	08/25/11	0547	1135888	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 006A (HT-W)

8/5/11

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 29, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29106-002	Project:	BRKL00604
Sample ID:	283580002	Client ID:	BRKL006
Matrix:	W	COC:	29106
Collect Date:	05-AUG-11 10:40	Samp Recv.:	
Receive Date:	06-AUG-11 09:40	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	J	1.37	1.13	4.03	mg/L		JXT1	08/25/11	0547	1135888	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 006B (HT-E)

8/5/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 8, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29120-003	Project:	BRKL00604
Sample ID:	284125004	Client ID:	BRKL006
Matrix:	W	COC:	29120
Collect Date:	15-AUG-11 11:35	Samp Recv.:	
Receive Date:	16-AUG-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	1.23	1.23	4.39	mg/L		JXT1	08/31/11	0735	1137714	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 008 (HW)
8/15/11

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	29120	Date Collected:	08/15/2011 11:35	Matrix:	W
Lab Sample ID:	284125004	Date Received:	08/16/2011 09:00		
Client Sample:	HW	Client:	BRKL006	Project:	BRKL00604
Client ID:	29120-003	Method:	EPA 624	SOP Ref:	GL-OA-E-026
Batch ID:	1134204	Inst:	VOA3.I	Dilution:	1
Run Date:	08/20/2011 08:25	Analyst:	SYK1	Purge Vol:	5 mL
Prep Date:	08/20/2011 08:25				
Data File:	081911V3\3Z550.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	U	1.00	ug/L	0.250	1.00	5.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	5.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	5.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	5.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	5.00

Outfall 008 (HW)
8/15/11

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 8, 2011

Company :	Brookhaven National Laboratory
Address :	Building 462
	Upton, New York 11973--5000
Contact:	Mr. John Burke
Project:	ES SPDES - Summary

Client Sample ID:	29120-002	Project:	BRKL00604
Sample ID:	284125002	Client ID:	BRKL006
Matrix:	W	COC:	29120
Collect Date:	15-AUG-11 10:35	Samp Recv.:	
Receive Date:	16-AUG-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	1.15	1.15	4.10	mg/L		JXT1	08/31/11	0735	1137714	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1664A	

Outfall 010 (CSF)
8/15/11