

NORTHROP GRUMMAN

Northrop Grumman Corporation
Integrated Systems

Eastern Region
925 South Oyster Bay Road
Bethpage, New York 11714-3582

ESH&M-08L-025
July 17, 2008

N.Y.S. Department of Environmental Conservation
Division of Water - Bureau of Water Compliance Programs
625 Broadway, 4th Floor
Albany, New York 12233-3506

Subject: **Discharge Monitoring Report for SPDES Permit No. NY0096792
Northrop Grumman Corporation - Bethpage, New York Facility**

Gentlemen:

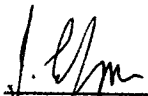
Enclosed please find the subject SPDES Discharge Monitoring Report for the month of June 2008.

Please note that John Cofman has replaced Larry Leskovjan and our mailing address has changed to:

Northrop Grumman Corporation
925 So. Oyster Bay Road
Mail Stop W16-035
Bethpage, NY 11714

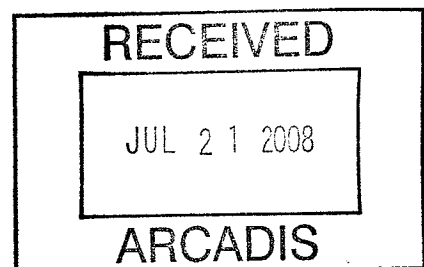
If you have any questions, please call me at 516/575-4680.

Very truly yours,



John Cofman
Environmental, Safety, Health &
Medical Services
M/S: W16-035

cc: Regional Water Engineer - Region 1
NYS Department of Environmental Conservation
SUNY @ Stony Brook
50 Circle Road
Stony Brook, NY 11790-3409



June
SPDES ~~May~~ 2008

♻️ Recycled Paper

bcc: D. Stern (AG&M)

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

Form Approved
OMB No. 2040-0004

Page 1

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

NAME: NORTROP GRUMMAN CORP
ADDRESS: ~~XX~~
BETHPAGE, NY 117143580

FACILITY: NORTROP GRUMMAN CORP
LOCATION: ~~XX~~
BETHPAGE, NY 117143580

ATTN: ~~XX~~ John Coifman

NY0098792
PERMIT NUMBER

005C
DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11714
MINOR
(SUBR01)
NC COOLING & STORM WATER TO GW
External Outfall

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
08	06	01	08	06	30

FROM

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS			
pH	*****		*****	*****		0	1/30	GRAB
	*****		5.6	*****	Req. Mon. MAXIMUM		Monthly	GRAB
00400 1 0 Effluent Gross	*****		*****	*****	SU	0	1/30	GRAB
	*****		5.5	*****	Req. Mon. MINIMUM		Monthly	GRAB
Nitrogen, total (as N)	*****		*****	*****	SU	0	1/30	GRAB
	*****		*****	*****	Req. Mon. MAXIMUM		Monthly	GRAB
00600 1 0 Effluent Gross	*****		*****	*****	mg/L	0	1/30	GRAB
	*****		*****	*****	DAILY MX		Monthly	GRAB
Methylene chloride	*****		*****	*****	ug/L	0	1/30	GRAB
	*****		*****	*****	DAILY MX		Monthly	GRAB
34423 1 0 Effluent Gross	*****		*****	*****	ug/L	0	1/30	GRAB
	*****		*****	*****	DAILY MX		Monthly	GRAB
Tetrachloroethylene	*****		*****	*****	ug/L	0	1/30	GRAB
	*****		*****	*****	DAILY MX		Monthly	GRAB
34475 1 0 Effluent Gross	*****		*****	*****	ug/L	0	1/30	GRAB
	*****		*****	*****	DAILY MX		Monthly	GRAB
1,1-Dichloroethylene	*****		*****	*****	ug/L	0	1/30	GRAB
	*****		*****	*****	DAILY MX		Monthly	GRAB
34501 1 0 Effluent Gross	*****		*****	*****	ug/L	0	1/30	GRAB
	*****		*****	*****	DAILY MX		Monthly	GRAB
1,1,1-Trichloroethane	*****		*****	*****	ug/L	0	1/30	GRAB
	*****		*****	*****	DAILY MX		Monthly	GRAB
34506 1 0 Effluent Gross	*****		*****	*****	ug/L	0	1/30	GRAB
	*****		*****	*****	DAILY MX		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER J. COIFMAN / ENV. ENG.	TELEPHONE		DATE	
	516-575-4680		08	7
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>J. Coifman</i>		AREA CODE	NUMBER	YEAR
TYPED OR PRINTED				MO
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)				DAY
WHEN NATURAL GW HAS PH OUTSIDE RANGE, IT MAY BE ONE EXTREMITY OF THE ALLOWABLE RANGE (SAMPLE & REPORT SUPPLY WELL & OUTFALL PH MONTHLY & REPORT PH COMPLIANCE STATUS (YES/NO) IN CALCULATED LIMIT AREA). 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: NORTHROP GRUMMAN CORP
ADDRESS: ~~800 391 75 10~~ 925 So. Oyster Bay Road
BETHPAGE, NY 117143580
FACILITY: NORTHROP GRUMMAN CORP
LOCATION: ~~800 391 75 10~~ M/S: W16-35
BETHPAGE, NY 117143580

ATTN: ~~XXXXXXXXXX~~ John Cofman

NY0096792
PERMIT NUMBER

005C
DISCHARGE NUMBER

DMR MAILING ZIP CODE: 11714
MINOR (SUBR01)
NC COOLING & STORM WATER TO GW
External Outfall

No Discharge

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
08	06	01	08	06	30

FROM

PARAMETER	QUANTITY OR LOADING		QUANTITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS			
Vinyl chloride	*****		*****		0	1/30	GRAB
39175 1 0 Effluent Gross	*****		*****	5 DAILY MX		Monthly	GRAB
Trichloroethylene	*****		*****	5 DAILY MX	0	1/30	GRAB
39180 1 0 Effluent Gross	*****		*****	5 DAILY MX		Monthly	GRAB
Flow, in conduit or thru treatment plant	*****		*****		0	1/30	MEASRD
50050 1 0 Effluent Gross	*****	3.5	*****	5 DAILY MX		Monthly	MEASRD
Calculated limit	*****		*****		0	1/30	CALCTD
74013 1 0 Effluent Gross	*****		*****			Monthly	CALCTD
cis-1,2-Dichloroethylene	*****		*****	5 DAILY MX	6	1/30	GRAB
77093 1 0 Effluent Gross	*****		*****	5 DAILY MX		Monthly	GRAB
Trichlorotrifluoroethane	*****		*****	5 DAILY MX	0	1/30	GRAB
81611 0 Effluent Gross	*****		*****	5 DAILY MX		Monthly	GRAB
trans-1,2-Dichloroethylene	*****		*****	5 DAILY MX	0	1/30	GRAB
85810 1 0 Effluent Gross	*****		*****	5 DAILY MX		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER J. COFMAN / Env. Eng.	TELEPHONE 516 525-4800	DATE 08 07 17
TYPED OR PRINTED	AREA Code	YEAR MO DAY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>J. Cofman</i>		
<small>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision with a system designed to assure that qualified personnel properly gather and evaluate the information included hereon. The information submitted is true and accurate. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</small>		
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) WHEN NATURAL GW HAS PH OUTSIDE RANGE, IT MAY BE ONE EXTREMITY OF THE ALLOWABLE RANGE (SAMPLE & REPORT SUPPLY WELL & OUTFALL PH MONTHLY & REPORT PH COMPLIANCE STATUS (YES/NO) IN CALCULATED LIMIT AREA). 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: NORTHROP GRUMMAN CORP
ADDRESS: ~~600 GRUMMAN RD~~ 925 So. Oyster Bay Road
BETHPAGE, NY 117143580 M/S: W16-35
FACILITY: NORTHROP GRUMMAN CORP
LOCATION: 600 GRUMMAN RD M/S Z18-025
BETHPAGE, NY 117143580
ATTN: ~~XXXXXXXXXX~~ John Gofman

NY0096792	006C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
08	06	01	08	06	30

DMR MAILING ZIP CODE: 11714
MINOR (SUBR01)
NC COOLING & STORM WATER TO GW
External Outfall

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH 00400 1 0 Effluent Gross	*****		5.9	*****	5.9		0	1/30	GRAB
	*****		Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		Monthly	GRAB
pH 00400 1 0 Intake from Well	*****		5.5	*****	5.5		0	1/30	GRAB
	*****		Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		Monthly	GRAB
Nitrogen, total (as N) 00600 1 0 Effluent Gross	*****		*****	*****	5.0		0	1/30	GRAB
	*****		*****	*****	10 DAILY MX	ng/l		Monthly	GRAB
Methylene chloride 34423 1 0 Effluent Gross	*****		*****	*****	20.5		0	1/30	GRAB
	*****		*****	*****	5 DAILY MX	ug/l		Monthly	GRAB
Tetrachloroethylene 34475 1 0 Effluent Gross	*****		*****	*****	20.5		0	1/30	GRAB
	*****		*****	*****	5 DAILY MX	ug/l		Monthly	GRAB
1,1-Dichloroethylene 34501 1 0 Effluent Gross	*****		*****	*****	20.5		0	1/30	GRAB
	*****		*****	*****	5 DAILY MX	ug/l		Monthly	GRAB
1,1,1-Trichloroethane 34506 1 0 Effluent Gross	*****		*****	*****	20.5		0	1/30	GRAB
	*****		*****	*****	5 DAILY MX	ug/l		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER J. COHAN / ENV. ENGR.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>J. Cohan</i>	TELEPHONE		DATE	
		AREA Code	NUMBER	YEAR	MO
TYPED OR PRINTED		516	575 4880	08	7 17

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
WHEN NATURAL GWS HAVE PH OUTSIDE RANGE, IT MAY BE ONE EXTREMITY OF THE ALLOWABLE RANGE (SAMPLE & REPORT SUPPLY WELL & OUTFALL PH MONTHLY & REPORT PH COMPLIANCE STATUS (YES/NO) IN CALCULATED LIMIT AREA). SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS & REQUIREMENTS
EPA Form 3320-1 (Rev. 01/06) Previous editions may be used.

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

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

NAME: NORTHROP GRUMMAN CORP
ADDRESS: ~~600 GRUMMAN RD~~ 925 So. Oyster Bay Road
BETHPAGE, NY 117143580 M/S: W16-35
FACILITY: NORTHROP GRUMMAN CORP
LOCATION: 600 GRUMMAN RD M/S Z18-025
BETHPAGE, NY 117143580

ATTN: ~~XXXXXXXXXX~~ John Coifman

NY0096792
PERMIT NUMBER

006C
DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
08	06	01	08	06	30

FROM

DMR MAILING ZIP CODE: 11714
MINOR (SUBR01)
NC COOLING & STORM WATER TO GW
External Outfall

No Discharge

PARAMETER	QUANTITY OR LOADING		QUANTITY OR CONCENTRATION		NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS			
Vinyl chloride	*****		*****		0	1/30	GRAB
39175 1 0 Effluent Gross	*****		*****	5 DAILY MX		Monthly	GRAB
Trichloroethylene	*****		*****		0	1/30	GRAB
39180 1 0 Effluent Gross	*****		*****	5 DAILY MX		Monthly	GRAB
Flow, in conduit or thru treatment plant	*****		*****		0	1/30	MEASRD
50050 1 0 Effluent Gross	*****	2.23	*****			Monthly	MEASRD
Calculated limit	*****		*****		0	1/30	CALC'D
74013 1 0 Effluent Gross	*****	4.25 DAILY MX	*****			Monthly	CALC'D
cis-1,2-Dichloroethylene	*****		*****		0	1/30	GRAB
77093 1 0 Effluent Gross	*****		*****	5 DAILY MX		Monthly	GRAB
Trichlorotrifluoroethylene	*****		*****		0	1/30	GRAB
81611 1 0 Effluent Gross	*****		*****	5 DAILY MX		Monthly	GRAB
trans-1,2-Dichloroethylene	*****		*****		0	1/30	GRAB
85810 1 0 Effluent Gross	*****		*****	5 DAILY MX		Monthly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER J. Coifman / Epi. Eval.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>J. Coifman</i>	TELEPHONE	DATE
TYPED OR PRINTED		576-574-4680	08 7 17
		AREA Code NUMBER	YEAR MO DAY

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

WHEN NATURAL GWS HAVE PH OUTSIDE RANGE, IT MAY BE ONE EXTREMITY OF THE ALLOWABLE RANGE (SAMPLE & REPORT SUPPLY WELL & OUTFALL PH MONTHLY) & REPORT PH COMPLIANCE STATUS (YES/NO) IN CALCULATED LIMIT AREA) SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS & REQUIREMENTS

EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

LABORATORY REQUEST NUMBER 33236-083
DATE

DIRECTED TO: CHEMISTRY LABORATORY METALLURGY LABORATORY ADV-DEV TECH-OPS NDT LABORATORY OPERATIONS

PART NAME/PART NUMBER: **MONTHLY SPDES**
OUT FALL 006

TYPE OF MATERIAL:

PROGRAM	PURCHASE ORDER NO.	JOB NUMBER 83091-800	QUANTITY 2	BATCH/HEAT NO.
SPECIFICATION(S)			S/N	

SELLER OR CUSTOMER:

TYPE OF TEST OR ANALYSIS REQUIRED: **AS PER ATTACHED**

REMARKS:

REQUESTED BY M. Crosby	FAX	MAIL STA. - BLDG. W16-035	PHONE 53579	LAB APPROVAL [Signature]
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FINDING OR RESULTS:

THE ABOVE MATERIAL IS: SATISFACTORY UNSATISFACTORY INFORMATION ONLY

REMARKS:

[Signature]
SIGNATURE
K. Cook
6/25/88
APPROVED

TECHNICAL SERVICES LABORATORY

QSL-33236-08
OUTFALL# 006
DATE-6-23-08

MONTHLY SPDES REPORT

ANALYTE	RESULTS µg/l(ppb)	METHOD OF ANALYSIS
1,1-DICHLOROETHENE	ND	EPA 601
METHYLENE CHLORIDE	ND	EPA 601
TETRACHLOROETHENE	ND	EPA 601
1,1,1-TRICHLOROETHANE	ND	EPA 601
TRICHLOROETHENE	<0.5	EPA 601
TRICHLOROTRIFLUORO ETHANE (FREON113)	ND	EPA 601
VINYL CHLORIDE	ND	EPA 601
TRANS 1,2- DICHLOROETHENE	ND	EPA 601
CIS 1,2-DICHLOROETHENE	ND	EPA 601
NITROGEN (TOTAL) MG./L	5.0	EPA 351.1, 353.3,354.1
PH	5.9	EPA 150.1

ND = NOT-DETECTED
LOD = 0.5 ug/l

33235-08

DIRECTED TO: CHEMISTRY LABORATORY METALLURGY LABORATORY ADV-DEV TECH-OPS NDT LABORATORY OPERATIONS

PART NAME/PART NUMBER: MONTHLY SPDES
OUTFALL UUS BA

TYPE OF MATERIAL:

PROGRAM	PURCHASE ORDER NO.	JOB NUMBER 83091-300	QUANTITY 2	BATCH/HEAT NO.
SPECIFICATION(S)			S/N	

SELLER OR CUSTOMER:

TYPE OF TEST OR ANALYSIS REQUIRED: AS PER ATTACHED

REMARKS:

REQUESTED BY M. Crosby	FAX	MAIL STA. - BLDG. W16-035	PHONE 53579	LAB APPROVAL K. Cook
---------------------------	-----	------------------------------	----------------	-------------------------

FINDING OR RESULTS:

THE ABOVE MATERIAL IS: SATISFACTORY UNSATISFACTORY INFORMATION ONLY

REMARKS:

SIGNATURE
K. Cook
6/25/08

APPROVED

TECHNICAL SERVICES LABORATORY

QSL-33235-08
OUTFALL# 005BA
DATE-6-23-08

MONTHLY SPDES REPORT

ANALYTE	RESULTS µg/l(ppb)	METHOD OF ANALYSIS
1,1-DICHLOROETHENE	ND	EPA 601
METHYLENE CHLORIDE	ND	EPA 601
TETRACHLOROETHENE	ND	EPA 601
1,1,1-TRICHLOROETHANE	ND	EPA 601
TRICHLOROETHENE	<0.5	EPA 601
TRICHLOROTRIFLUORO ETHANE (FREON113)	ND	EPA 601
VINYL CHLORIDE	ND	EPA 601
TRANS 1,2- DICHLOROETHENE	ND	EPA 601
CIS 1,2-DICHLOROETHENE	ND	EPA 601
NITROGEN (TOTAL) MG./L	4.5	EPA 351.1, 353.3,354.1
PH	5.6	EPA 150.1

ND = NOT-DETECTED
LOD = 0.5 ug/l

33234-08

DIRECTED TO: CHEMISTRY LABORATORY METALLURGY LABORATORY ADV-DEV TECH-OPS NDT LABORATORY OPERATIONS

PART NAME/PART NUMBER: MONTHLY SP DES

TYPE OF MATERIAL: OUT FALL 005 AA

PROGRAM	PURCHASE ORDER NO.	JOB NUMBER 93091-800	QUANTITY 2	BATCH/HEAT NO.
SPECIFICATION(S)			S/N	

SELLER OR CUSTOMER:

TYPE OF TEST OR ANALYSIS REQUIRED: AS PER ATTACHED

REMARKS:

REQUESTED BY M. Crosby	FAX	MAIL STA. - BLDG. W16-035	PHONE 53579	LAB. APPROVAL J. Calloro
---------------------------	-----	------------------------------	----------------	-----------------------------

FINDING OR RESULTS:

THE ABOVE MATERIAL IS: SATISFACTORY UNSATISFACTORY INFORMATION ONLY

REMARKS:

SIGNATURE

K. Cook
6/27/05

APPROVED

TECHNICAL SERVICES LABORATORY

QSL-33234-08
OUTFALL# 005AA
DATE-6-23-08

MONTHLY SPDES REPORT

ANALYTE	RESULTS µg/l(ppb)	METHOD OF ANALYSIS
1,1-DICHLOROETHENE	ND	EPA 601
METHYLENE CHLORIDE	ND	EPA 601
TETRACHLOROETHENE	ND	EPA 601
1,1,1-TRICHLOROETHANE	ND	EPA 601
TRICHLOROETHENE	ND	EPA 601
TRICHLOROTRIFLUORO ETHANE (FREON113)	ND	EPA 601
VINYL CHLORIDE	ND	EPA 601
TRANS 1,2- DICHLOROETHENE	ND	EPA 601
CIS 1,2-DICHLOROETHENE	ND	EPA 601
NITROGEN (TOTAL) MG./L	4.7	EPA 351.1, 353.3,354.1
PH	5.5	EPA 150.1

ND = NOT-DETECTED
LOD = 0.5 ug/l

SPDES FLOW RECORD FOR :

June 2008

DATE OF OBSERVATION/SAMPLING:

6/23 - 6/24/2008

WELL TOTALS	FIRST READING	SECOND READING	DELTA (GAL/DAY)	DELTA (MGD)	FLOW (MGD) OUTFALL 005 (SOUTH BASINS)	FLOW (MGD) OUTFALL 006 (WEST BASINS)
#1	28847	30047	1200000	1.200		
#3	748523	749642	1119000	1.119		
Total for #1 and #3				2.319		
#17	4868530	4870010	1480000	1.480		
#18	3384993	3385873	880000	0.880		
#19	1807487	1808531	1044000	1.044		
Total for #17, #18 and #19			3404000	3.404		
Tower 102 Wet Well (Out)	569398	572890	3492000	3.492		
FLOW FOR OUTFALLS 005 AND 006 (MGD)					3.492	2.231
TOTAL FLOW FOR ALL OUTFALLS (MGD)				5.723		

BASIS FOR FLOW MEASUREMENT AND RECORDING

As of January 2002, the groundwater extraction and discharge system at the Bethpage, New York site achieved steady state operation. At that time, the use of groundwater for non-contact cooling water was terminated throughout the site. The only SPDES discharges now consist of stormwater-related flow and treated groundwater discharged from the groundwater treatment system. The groundwater treatment system consists of five extraction wells (1, 3, 17, 18, and 19) and two stripper towers discharging to the West and South Recharge Basins. The West Basins receive treated groundwater from wells 1 and 3 via the Building 96 stripper tower, while the South Basins receive treated groundwater from wells 17, 18 and 19 via the Building 102 stripper tower. The total extraction from wells 1 and 3 is approximately 1,500 gallons per minute (gpm), while the total extraction from wells 17, 18, and 19 is approximately 2,300 gpm. A portion of the groundwater from wells 1 and 3 (approximately 1,300 gpm) enters the distribution system for the site where it is available for irrigation. A relief valve at the Building 102 stripper tower wet well activates when the distribution system pressure exceeds 65 - 70 psi. Normally (i.e., when no irrigation is occurring), all of the 1,300 gpm is routed to the wet well of stripper tower 102 and is discharged to the West Basins along with the output of wells 17, 18 and 19.

Because the pump-and-treat system is designed to operate 24 hours a day for 7 days a week (per the NYSDEC's Record of Decision for Operable Unit 2), and because, except for stormwater-related flow, this is the only discharge to the recharge basins, dry weather flow to the South and West Recharge Basins does not vary from one day to the next. Consequently, measurement of the the average daily flow on any given day in the month will be the same as the daily average flow rate for the month, as required to be measured and reported by the SPDES permit. Accordingly, on the day of SPDES sample collection, flows from each extraction well and the wet well at stripper tower 102 are totaled. The wet well flow from stripper tower 102 goes entirely to the South Basins and thus is the daily average flow for Outfall 005. Since a portion of that flow comes from wells 1 and 3, the discharge to the West Basins (Outfall 006) is determined by subtracting the total flow for wells 17, 18 and 19 from the tower 102 wet well flow and then subtracting this remainder from the total flow for wells 1 and 3. This flow is the daily average flow for Outfall 006.

SPDES Flow Record (12/02)

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) MONTHLY FLOW RECORD

Bethpage Environmental, Safety, Health & Medical (ESH&M) Department

SPDES FLOW RECORD FOR: <i>(Enter Month)</i> June 2008						
DATE(S) OF WELL PUMP FLOW READINGS: <i>(Enter Dates)</i> 23 and 24						
WELL NUMBER	PUMP FLOW FIRST READING	PUMP FLOW SECOND READING	PUMP FLOW DELTA (GAL/DAY)	PUMP FLOW DELTA (MGD)	FLOW (MGD) OUTFALL 005 (SOUTH BASINS)	FLOW (MGD) OUTFALL 006 (WEST BASINS)
WELL #1	28847	30047	1200000	1.200		
WELL #3	748523	749642	1119000	1.119		
TOTAL <i>(for Wells #1 & #3)</i>	-	-	-	2.319		
WELL #17	4868530	4870010	1480000	1.480		
WELL #18	3384993	3385873	880000	0.880		
WELL #19	1807487	1808531	1044000	1.044		
TOTAL <i>(for Wells #17, #18 & #19)</i>	-	-	-	3.404		
TOWER 102 WET WELL	569398	572890	3492000	3.492		
FLOW FOR OUTFALLS 005 / 006 (MGD)					3.492	2.231
TOTAL FLOW FOR ALL OUTFALLS					5.723	
BASIS FOR FLOW MEASUREMENT AND RECORDING						
<p>As of January 2002, the groundwater extraction and discharge system at the Bethpage, New York, site achieved steady state operation. At that time, the use of groundwater for non-contact cooling water was terminated throughout the site. The only SPDES discharges now consist of stormwater-related flow and treated groundwater discharged from the groundwater treatment system. The groundwater treatment system consists of five extraction wells (1, 3, 17, 18, and 19) and two stripper towers discharging to the West and South Recharge Basins. The West Basins receive treated groundwater from wells 1 and 3 via the Building 96 stripper tower, while the South Basins receive treated groundwater from wells 17, 18 and 19 via the Building 102 stripper tower. The total extraction from wells 1 and 3 is approximately 1,500 gallons per minute (gpm), while the total extraction from wells 17, 18, and 19 is approximately 2,300 gpm. A portion of the groundwater from wells 1 and 3 (approximately 1,300 gpm) enters the distribution system for the site where it is available for irrigation. A relief valve at the Building 102 stripper tower wet well activates when the distribution system pressure exceeds 65 - 70 psi. Normally (i.e., when no irrigation is occurring), all of the 1,300 gpm is routed to the wet well of stripper tower 102 and is discharged to the West Basins along with the output of wells 17, 18 and 19. Because the pump-and-treat system is designed to operate 24 hours a day for 7 days a week (per the NYSDEC's Record of Decision for Operable Unit 2), and because, except for stormwater-related flow, this is the only discharge to the recharge basins, dry weather flow to the South and West Recharge Basins does not vary from one day to the next. Consequently, measurement of the daily flows on any given day in the month will be the same as the daily maximum flow rate for the month, as required to be measured and reported by the SPDES permit. Accordingly, on the day of SPDES sample collection, flows from each extraction well and the wet well at stripper tower 102 are totaled. The wet well flow from stripper tower 102 goes entirely to the South Basins and thus is the daily maximum flow for Outfall 005. Since a portion of that flow comes from wells 1 and 3, the discharge to the West Basins (Outfall 006) is determined by subtracting the total flow for wells 17, 18 and 19 from the tower 102 wet well flow and then subtracting this remainder from the total flow for wells 1 and 3. This flow is the daily maximum flow for Outfall 006.</p>						

DISCHARGE MONITORING REPORT (DMR) SAMPLING LOG

BETHPAGE ENVIRONMENTAL OPERATIONS

(Annotate Any Field left blank with "N/A")

SPDES MONTHLY REPORT JUNE 23/08 to 24/08

DATE: 6/23 to 6/24

SAMPLE POINT	TIME OF SAMPLE COLLECTION	COLLECTED BY (INITIALS)		
Outfall 005 (Bldg. 02)				
Outfall 006 (Bldg. 05)				

RUNNING WELLS	FIRST READING	SECOND READING	TIME OF SAMPLE COLLECTION	COLLECTED BY (INITIALS)
Well # 1	28847	30047	7:50/7:50	JW
Well # 3	748523	749642	8:00/8:00	JW
Well # 17	4868530	4870010	7:45/7:45	JW
Well # 18	3384993	3385873	7:40/7:40	JW
Well # 19	1807487	1808531	7:30/7:30	JW
Tower 102 Wet Well IN	11437484	11441154	7:00/7:00	JW

NOTE: Samples at each outfall are to be analyzed for pH, Ni and selected VOCs as per the SPDES permit requirements. Samples at the wells are to be analyzed for pH and TCE.

TOWER 102 WET WELL PLUS 96 RELIEF - OUT	569398 @ 2:40 9pm	5728900 @ 2:43 9pm	7:05/7:05	JW
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DISCHARGE MONITORING REPORT (DMR) SAMPLING LOG

BETHPAGE ENVIRONMENTAL OPERATIONS

(Annotate Any Field left blank with "N/A")

SPDES MONTHLY REPORT JUNE 2008

DATE: 6-23-08

SAMPLE POINT	TIME OF SAMPLE COLLECTION	COLLECTED BY (INITIALS)		
Outfall 005 (Bldg. 02)	8:35 AM	M. Corby		
Outfall 006 (Bldg. 05)	9:25 AM	M. Corby		

RUNNING WELLS	FIRST READING	SECOND READING	TIME OF SAMPLE COLLECTION	COLLECTED BY (INITIALS)
Well # 1				
Well # 3				
Well # 17		N/A		
Well # 18				
Well # 19				
Tower 102 Wet Well				

NOTE: Samples at each outfall are to be analyzed for pH, Ni and selected VOCs as per the SPDES permit requirements. Samples at the wells are to be analyzed for pH and TCE.