



Steven M. Scharf, P.E.
Project Engineer
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Action, Bureau A
625 Broadway
Albany, New York 12233-7015

Subject:

January 2007 Monthly Progress Report
Northrop Grumman Systems Corporation
Operable Unit 3
NYSDEC Site ID # 1-30-003A
Bethpage, New York.

Dear Steve:

In accordance with Section III of Administrative Order on Consent (AOC) Index # W1-0018-04-01, this letter reports the activities for Operable Unit 3 (OU3) performed by Northrop Grumman Systems Corporation (NG) during the month of January 2007; activities planned for February 2007 are also discussed. This report is the tenth OU3 monthly progress report since the AOC between NG and the New York State Department of Environmental Conservation (NYSDEC) was signed on June 24, 2005. Attached, please find Tables 1A to 1C providing recent validated data that was collected as part of the Phase 2 Remedial Investigation (RI). Sample locations are shown on Figures 1 and 2.

OU3 Activities Conducted During January 2007

- Prepared and submitted the December 2006 AOC Monthly Progress Report.
- Continued coordination and planning for Phase 2 RI and anticipated IRMs, including:
 - Submitted modified locations and specifications for deep off-site vertical profile borings (VPBs) to NYSDEC.
 - Prepared and submitted the Phase 3 RI Work Plan to NYSDEC outlining the conceptual approach for activities anticipated to complete the OU3 RI.

Imagine the result

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Date:
13 February 2007

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NY001464.0907.00003

- Attended Town of Oyster Bay (Town) bi-weekly meetings for soil IRM/redevelopment project. Reviewed available Town information toward overall RI and IRM planning.
- Scope/specification development for soil borings, monitoring wells, piezometers, and Cone Penetrometer (CPT) borings, per Phase 3 RI Work Plan.
- Continued coordination and planning for OU3 IRMs, including:
 - Conducted in-house data analyses, meetings, and initial determination of IRM strategy.
 - Continued evaluations data, screening of technologies, and updates to schedule for VCS IRM.
 - Prepared and submitted the IRM Pre-Design Work Plan to NYSDEC outlining the pre-design investigation toward design of Soil Gas IRM and on-site groundwater IRM.
 - NG retracted Work Plan Addendum No. 8, pending its inclusion in the Soil Gas IRM Work Plan.
- Conducted Phase 2 RI field activities, including:
 - Performed monthly groundwater monitoring of selected on-site monitoring wells and perched water piezometers. Collect additional parameters to assist in IRM planning.
 - Characterization and disposal of containerized soil cuttings from OU3 RI.
 - Initiated drilling and groundwater sampling of off-site vertical profile borings VP-109 and VP-110 using hollow-stem auger/temporary well methodology.
 - Conducted and completed CPT borings in the Park and on the Plant 24 Access Road for assessment of soil types and perched water.
- Continue RI data review/evaluation, including:
 - Continued review and validation of analytical results for samples collected.
 - Continued analysis and evaluation (via EVS software and other) of soil (including grab samples and CPT/MIP data), soil gas, and groundwater data toward development of a revised CSM, and to and support need for

additional sampling requests (i.e., work plan addenda) to address data gaps.

- Reviewed test pit findings and results of samples.
- Continued to review RI data and determine the location of data gaps.
- Initiated determination of additional soil boring sampling requirements.
- Continued to update figures and cross sections with latest data
- Continued analysis of data toward development of Soil Gas IRM Work Plan.

OU3 Activities Expected During February 2007

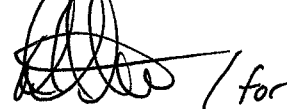
- Prepare and submit January 2007 Monthly Progress Report.
- Continue Phase 2 RI planning/coordination activities, including:
 - Submit modified specifications for deep off-site monitoring wells, piezometers, and soil borings to NYSDEC for informational purposes.
 - Continue to attend Town IRM progress meetings to work towards coordination of the NG OU3 RI and Town IRM activities.
- Continue Phase 2 RI field activities, including:
 - Complete sampling of deep off-site VPBs VP-109 and VP-110.
 - Continue monthly groundwater/perched water monitoring in on-site piezometers and selected wells.
 - Initiate drilling of perched water piezometers and shallow on-site monitoring wells, per Phase 3 RI Work Plan.
 - Initiate drilling and sampling of on-site soil borings, per Phase 3 RI Work Plan.
- RI data review/evaluation, as follows:
 - Review and analyze findings from on-site test pits.
 - Determine scope of additional soil borings and sampling within the park.
 - Continue evaluation (via EVS software) of soil, soil-gas, and groundwater data toward development of Phase 2 RI soil boring program, a revised CSM, assess data gaps, and support planning for IRM.

- Continue to validate and tabulate analytical data received from laboratory toward preparation of RI Report.
- Continue to prepare selected figures of analytical results and interpretations toward preparation of RI Report.
- Conduct planning for on-site IRMs:
 - Continue to evaluate RI data toward design of the Soil Gas and on-site groundwater IRMs.
 - Prepare and submit Draft Soil Gas Work Plan to NG for review and comment, with NG approval Soil Gas IRM Work Plan will be submitted to NYSDEC.
 - Initiate development of preliminary design for Soil Gas IRM.

Feel free to call us if you have any questions.

Sincerely,

ARCADIS of New York, Inc.



Carlo San Giovanni
Project Manager

Enclosures

Copies:

M. Wolfert, ARCADIS

D. Stern, ARCADIS

File, ARCADIS

L. Leskovjan, NGC

J. Cofman, NGC

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Table 1A. Validated Monitoring Well and Perched Water Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT (ug/l)	Site ID: BCPMW-3 Sample ID: BCPMW-3 Sample Date: 11/10/2006	BCPMW-3 BCPMW-3 12/11/2006	BCPMW-4-1 MW 4-1 8/29/2006	BCPMW-4-1 BCP-MW-4-1 11/9/2006	BCPMW-4-1 BPMW-4-1 12/11/2006	BCPMW-4-2 MW 4-2 8/29/2006
<u>Volatile Organic Compounds</u>						
Chloromethane	<5	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5	<5
Vinyl Chloride	6.1	170	13	230	D 54	1900 D
Chloroethane	<5	<5	<5	<5	<5	<5
Methylene chloride	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10
Carbon disulfide	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	0.4J J	9.6	1 J	4 J	1.8 J	6
1,1-Dichloroethane	<5	<5	2 J	5.6	2.6 J	10
Chloroform	<5	1.8 J	<5	<5	<5	3 J
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5
2-Butanone	<10	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<5	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5	2 J
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5
Trichloroethene	7.4	58	15	21	14	3 J
Dibromochloromethane	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5	<5
Benzene	<0.7	<0.7	<0.7	<0.7	<0.7	0.5 J
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	<10	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10	<10
Tetrachloroethene	<5	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5
Toluene	<5	0.31 J	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5	<5
Xylene (total)	<5	<5	<5	<5	<5	6
Vinyl Acetate	<5	<5	<5	<5	<5	<5
Freon 113	<5	<5	<5	<5	<5	<5
Chlorodifluoromethane	<5	<5	--	<5	<5	--
cis-1,2-Dichloroethylene	37	180	520	D 1800	D 790	D 4300 D
Dichlorodifluoromethane	<5	<5	--	<5	<5	--
trans-1,2-Dichloroethene	<5	0.28 J	1 J	1.8 J	2 J	4 J
Total :	50.50	419.99	552.00	2,062.40	864.40	6,234.50

Notes:

- ug/L Micrograms per liter.
- Not Analyzed.
- J Estimated value.
- D Constituent quantified at a secondary dilution.

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Table 1A. Validated Monitoring Well and Perched Water Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT (ug/l)	Site ID: BCPMW-4-2		BCPMW-4-2		F-8-PZ		F8		H3		H7	
	Sample ID: BCP-MW-4-2		BPMW-4-2		PZ-1		F-8PZ		H-3PZ		H-7PZ	
	Sample Date: 11/9/2006		12/11/2006		6/13/2006		12/11/2006		12/11/2006		12/11/2006	
<u>Volatile Organic Compounds</u>												
Chloromethane	<5		<5		<5		<5		<5J		<5	
Bromomethane	<5		<5		<5		<5		<5J		<5	
Vinyl Chloride	1200	D	1200	D	<2		<2		76	J	130	
Chloroethane	<5		<5		<5		<5		3		<5	
Methylene chloride	<5		<5		<5		<5		<5J		<5	
Acetone	<10		<10		<10		<10		<10J		<10	
Carbon disulfide	<5		<5		<5		<5		<5J		<5	
1,1-Dichloroethene	12		10		<5		<5		<5J		<5	
1,1-Dichloroethane	14		15		<5		<5		91	J	3.6	J
Chloroform	1.9	J	1.7	J	<5		<5		<5J		0.25	J
1,2-Dichloroethane	1.7	J	1.6	J	<5		<5		<5J		<5	
2-Butanone	<10		<10		<10		<10		<10J		<10	
1,1,1-Trichloroethane	<5		<5		<5		<5		8.7	J	<5	
Carbon tetrachloride	<5		<5		<5		<5		<5J		<5	
Bromodichloromethane	<5		<5		<5		<5		<5J		<5	
1,2-Dichloropropane	2.5	J	2.6	J	<5		<5		9.5	J	1	J
cis-1,3-Dichloropropene	<5		<5		<5		<5		<5J		<5	
Trichloroethene	19		12		37		23		13	J	1300	D
Dibromochloromethane	<5		<5		<5		<5		<5J		<5	
1,1,2-Trichloroethane	0.73	J	0.76	J	<5		<5		2.1	J	<5	
Benzene	0.86		0.82		<0.7		<0.7		1.2	J	0.3	J
trans-1,3-Dichloropropene	<5		<5		<5		<5		<5J		<5	
Bromoform	<5		<5		<5		<5		<5J		<5	
4-Methyl-2-pentanone	<10		<10		<10		<10		<10J		2.5	J
2-Hexanone	<10		<10		<10		<10		<10J		<10	
Tetrachloroethene	<5		0.74	J	<5		<5		0.35	J	0.59	J
1,1,2,2-Tetrachloroethane	<5		<5		<5		<5		<5J		<5	
Toluene	0.73	J	0.43	J	1	J	<5		180	J	20	
Chlorobenzene	<5		<5		<5		<5		<5J		<5	
Ethylbenzene	0.59	J	<5		<5		<5		<5J		0.62	J
Styrene	<5		0.59	J	<5		<5		<5J		<5	
Xylene (total)	22		23		<5		<5		7300	D	4.3	J
Vinyl Acetate	<5		<5		<5		<5		<5J		<5	
Freon 113	<5		<5		<5		<5		<5J		<5	
Chlorodifluoromethane	<5		<5		<5		<5		<5J		<5	
cis-1,2-Dichloroethylene	6500	D	7100	D	<5		0.87	J	8.3	J	52	
Dichlorodifluoromethane	<5		<5		<5		<5		<5J		<5	
trans-1,2-Dichloroethene	5.1		3.6	J	<5		<5		<5J		0.64	J
Total :	7,781.11		8,372.84		38.00		23.87		7,693.15		1,515.80	

Notes:

- ug/L Micrograms per lit
- Not Analyzed.
- J Estimated value.
- D Constituent quant

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: Sample ID: Sample Date:	VP-102 VP-102 (45-50) 10/13/2006	VP-102 VP-102 (65-70) 10/13/2006	VP-102 VP-102 (85-90) 10/13/2006	VP-102 VP-102 (105-110) 10/12/2006	VP-102 VP-102 (125-130) 10/12/2006	
Volatile Organic Compounds							
Chloromethane		<5	<5	<5	<5	<5	
Bromomethane		<5	<5	<5	<5	<5	
Vinyl Chloride		<2	<2	<2	<2	<2	
Chloroethane		<5	<5	<5	<5	<5	
Methylene chloride		<5	<5	<5	<5	<5	
Acetone		<18	<10	<10	<10	<10	
Carbon disulfide		<5	<5	<5	<5	<5	
1,1-Dichloroethene		<5	<5	<5	<5	<5	
1,1-Dichloroethane		<5	<5	<5	<5	<5	
		<5	<5	<5	<5	<5	
1,2-Dichloroethane		<5	<5	<5	<5	<5	
2-Butanone		<10	<10	<10	<10	<10	
1,1,1-Trichloroethane		<5	<5	<5	<5	<5	
Carbon tetrachloride		<5	<5	<5	<5	<5	
Bromodichloromethane		<5	<5	<5	<5	<5	
1,2-Dichloropropane		<5	<5	<5	<5	<5	
cis-1,3-Dichloropropene		<5	<5	<5	<5	<5	
Trichloroethene		14	33	13	34	16	
Dibromochloromethane		<5	<5	<5	<5	<5	
1,1,2-Trichloroethane		<5	<5	<5	<5	<5	
Benzene		<0.7	0.32	J	<0.7	<0.7	
trans-1,3-Dichloropropene		<5	<5	<5	<5	<5	
Bromoform		<5	<5	<5	<5	<5	
4-Methyl-2-pentanone		<10	<10	<10	<10	<10	
2-Hexanone		<10	<10	<10	<10	<10	
Tetrachloroethene		<5	<5	<5	<5	<5	
1,1,2,2-Tetrachloroethane		<5	<5	<5	<5	<5	
Toluene		1.6	J	4.2	J	4.4	J
Chlorobenzene		<5	<5	<5	<5	<5	
Ethylbenzene		<5	<5	<5	<5	<5	
Styrene		<5	<5	<5	<5	<5	
Xylene (total)		<5	<5	<5	<5	<5	
Vinyl Acetate		<5	<5	<5	<5	<5	
Freon 113		<5	<5	<5	<5	<5	
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5	
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5	
Chlorodifluoromethane		<5	<5	<5	<5	<5	
Dichlorodifluoromethane		<5	<5	<5	<5	<5	
Total :		15.6	37.52	17.4	41.2	16	

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary dilution.

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: Sample ID: Sample Date:	VP-102 VP-102 (135-140) 10/11/2006	VP-102 VP-102 (150-155) 10/11/2006	VP-102 VP-102 (160-165) 10/11/2006	VP-102 VP-102 (170-175) 10/10/2006	VP-102 VP-102 (180-185) 10/10/2006
<u>Volatile Organic Compounds</u>						
Chloromethane		<5	<5	<5	<5	<5
Bromomethane		<5	<5	<5	<5	<5
Vinyl Chloride		<2	<2	<2	<2	<2
Chloroethane		<5	<5	<5	<5	<5
Methylene chloride		<5	<5	<5	<5	<5
Acetone		<10	<10	<10	<10	<10
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	0.61 J	0.77 J	1.1 J	1.9 J
1,1-Dichloroethane		<5	<5	<5	<5	6.2
		<5	<5	<5	<5	<5
1,2-Dichloroethane		<5	<5	<5	<5	<5
2-Butanone		<10	<10	<10	<10	<10
1,1,1-Trichloroethane		<5	<5	<5	<5	2 J
Carbon tetrachloride		<5	<5	<5	<5	<5
Bromodichloromethane		<5	<5	<5	<5	<5
1,2-Dichloropropane		<5	<5	<5	<5	<5
cis-1,3-Dichloropropene		<5	<5	<5	<5	<5
Trichloroethene		83	86	140	150	78
Dibromochloromethane		<5	<5	<5	<5	<5
1,1,2-Trichloroethane		<5	<5	<5	<5	<5
Benzene		<0.7	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene		<5	<5	<5	<5	<5
Bromoform		<5	<5	<5	<5	<5
4-Methyl-2-pentanone		<10	<10	<10	<10	<10
2-Hexanone		<10	<10	<10	<10	<10
Tetrachloroethene		<5	<5	<5	0.74 J	<5
1,1,2,2-Tetrachloroethane		<5	<5	<5	<5	<5
Toluene		4.3 J	5.1	3.5 J	0.64 J	<5
Chlorobenzene		<5	<5	<5	<5	<5
Ethylbenzene		<5	<5	<5	<5	<5
Styrene		<5	<5	<5	<5	<5
Xylene (total)		<5	<5	<5	<5	<5
Vinyl Acetate		<5	<5	<5	<5	<5
Freon 113		<5	1 J	2.1 J	4.1 J	1.8 J
cis-1,2-Dichloroethylene		0.98 J	1.2 J	2.5 J	4.1 J	2.2 J
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5
Total :		88.28	93.91	148.87	160.68	92.1

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: Sample ID: Sample Date:	VP-102 VP-102 (190-195) 10/6/2006	VP-102 VP-102 (200-205) 10/6/2006	VP-102 VP-102 (220-225) 10/5/2006	VP-102 VP-102 (240-245) 10/5/2006	VP-102 VP-102 (250-255) 10/4/2006
<u>Volatile Organic Compounds</u>						
Chloromethane		<5	<5	<5	<5	<10
Bromomethane		<5	<5	<5	<5	<10
Vinyl Chloride		<2	<2	<2	<2	1.2 J
Chloroethane		<5	<5	<5	<5	<10
Methylene chloride		<5	<5	<5	<5	<10
Acetone		<10	<10	<10	<10	<10
Carbon disulfide		<5	<5	<5	<5	<10
1,1-Dichloroethene		3.3 J	<5	<5	1.5 J	2.2 J
1,1-Dichloroethane		12	3.6 J	<5	7.8	6.6 J
		0.85 J	<5	<5	<5	<10
1,2-Dichloroethane		<5	<5	<5	<5	<10
2-Butanone		<10	<10	<10	<10	<10
1,1,1-Trichloroethane		<5	<5	<5	<5	<10
Carbon tetrachloride		<5	<5	<5	<5	<10
Bromodichloromethane		<5	<5	<5	<5	<10
1,2-Dichloropropane		<5	<5	<5	<5	<10
cis-1,3-Dichloropropene		<5	<5	<5	<5	<10
Trichloroethene		110	62	190	180	340 D
Dibromochloromethane		<5	<5	<5	<5	<10
1,1,2-Trichloroethane		<5	<5	<5	<5	<10
Benzene		<0.7	<0.7	<0.7	<0.7	<10
trans-1,3-Dichloropropene		<5	<5	<5	<5	<10
Bromoform		<5	<5	<5	<5	<10
4-Methyl-2-pentanone		<10	<10	<10	<10	<10
2-Hexanone		<10	<10	<10	<10	<10
Tetrachloroethene		<5	<5	<5	<5	<10
1,1,1,2-Tetrachloroethane		<5	<5	<5	<5	<10
Toluene		0.9 J	1.1 J	<5	<5	<10
Chlorobenzene		<5	<5	<5	<5	<10
Ethylbenzene		<5	<5	<5	<5	<10
Styrene		<5	<5	<5	<5	<10
Xylene (total)		<5	<5	<5	<5	<10
Vinyl Acetate		<5	<5	<5	<5	<10
Freon 113		<5	<5	<5	<5	<10
cis-1,2-Dichloroethylene		3 J	1.7 J	6.2	4.7 J	34 J
trans-1,2-Dichloroethylene		2.6 J	<5	<5	<5	<10
Chlorodifluoromethane		<5	<5	<5	<5	<10
Dichlorodifluoromethane		<5	<5	<5	<5	<10
Total :		132.65	68.4	196.2	194	384

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: Sample ID: Sample Date:	VP-102 VP-102 (260-265) 10/4/2006	VP-102 VP-102 (290-295) 10/2/2006	VP-102 VP-102 (300-305) 9/29/2006	VP-102 VP-102 (310-315) 9/29/2006	VP-102 VP-102 (330-325) 9/28/2006
<u>Volatile Organic Compounds</u>						
Chloromethane		<10	<5	<5	<5	<5
Bromomethane		<10	<5	<5	<5	<5
Vinyl Chloride		2.2 J	1.7 J	3.2	1.9 J	<2
Chloroethane		<10	<5	<5	<5	<5
Methylene chloride		<10	<5.7	<9.9	<9.3	<5
Acetone		<10	<10	<10	<10	<10
Carbon disulfide		<10	<5	<5	<5	<5
1,1-Dichloroethene		3.3 J	3.7 J	4.9 J	1.4 J	1.9 J
1,1-Dichloroethane		8.7 J	9.3	17	12	2.4 J
		<10	0.75 J	0.56 J	<5	<5
1,2-Dichloroethane		<10	<5	<5	<5	<5
2-Butanone		<10	<10	<10	<10	<10
1,1,1-Trichloroethane		<10	<5	<5	<5	<5
Carbon tetrachloride		<10	<5	<5	<5	<5
Bromodichloromethane		<10	<5	<5	<5	<5
1,2-Dichloropropane		<10	<5	<5	<5	<5
cis-1,3-Dichloropropene		<10	<5	<5	<5	<5
Trichloroethene		440 D	1100 D	460 D	100	310 D
Dibromochloromethane		<10	<5	<5	<5	<5
1,1,2-Trichloroethane		<10	<5	<5	<5	<5
Benzene		<10	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene		<10	<5	<5	<5	<5
Bromoform		<10	<5	<5	<5	<5
4-Methyl-2-pentanone		<10	<10	<10	<10	<10
2-Hexanone		<10	<10	<10	<10	<10
Tetrachloroethene		<10	0.55 J	<5	<5	<5
1,1,2,2-Tetrachloroethane		<10	<5	<5	<5	<5
Toluene		8 J	5.9	<5	0.33 J	0.61 J
Chlorobenzene		<10	<5	<5	<5	<5
Ethylbenzene		<10	<5	<5	<5	<5
Styrene		<10	<5	<5	<5	<5
Xylene (total)		<10	<5	<5	<5	<5
Vinyl Acetate		<10	<5	<5	<5	<5
Freon 113		<10	<5	<5	<5	<5
cis-1,2-Dichloroethylene		47	71	79	18	21
trans-1,2-Dichloroethylene		<10	0.61 J	<5	<5	<5
Chlorodifluoromethane		<10	<5	0.38 J	<5	<5
Dichlorodifluoromethane		<10	<5	<5	<5	<5
Total :		509.2	1193.51	565.04	133.63	335.91

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: Sample ID: Sample Date:	VP-102 VP-102 (345-350) 9/28/2006	VP-102 VP-102 (365-370) 9/27/2006	VP-102 VP-102 (370-375) 10/3/2006	VP-102 VP-102 (380-385) 10/3/2006	VP-103 VP-103 (60) 10/10/2006
<u>Volatile Organic Compounds</u>						
Chloromethane		<5	<5	<10	<10	<5
Bromomethane		<5	<5	<10	<10	<5
Vinyl Chloride		0.13	J	<2	3.3	J
Chloroethane		<5	<5	<10	<10	<5
Methylene chloride		<5	<5	<10	<10	<5
Acetone		<10	<10	<10	<10	<10
Carbon disulfide		<5	<5	<10	<10	<5
1,1-Dichloroethene		1.2	J	<5	5.6	J
1,1-Dichloroethane		2.7	J	<5	11	<10
		<5	<5	<10	0.44	J
1,2-Dichloroethane		<5	<5	<10	<10	<5
2-Butanone		<10	<10	<10	<10	<10
1,1,1-Trichloroethane		<5	<5	<10	<10	<5
Carbon tetrachloride		<5	<5	<10	<10	<5
Bromodichloromethane		<5	<5	<10	<10	<5
1,2-Dichloropropane		<5	<5	<10	<10	<5
cis-1,3-Dichloropropene		<5	<5	<10	<10	<5
Trichloroethene		200	1.7	J	1000	D
Dibromochloromethane		<5	<5	<10	<10	<5
1,1,2-Trichloroethane		<5	<5	<10	<10	<5
Benzene		<0.7	<0.7	<10	<10	<0.7
trans-1,3-Dichloropropene		<5	<5	<10	<10	<5
Bromoform		<5	<5	<10	<10	<5
4-Methyl-2-pentanone		<10	<10	<10	<10	<10
2-Hexanone		<10	<10	<10	<10	<10
Tetrachloroethene		<5	<5	<10	1.7	J
1,1,2,2-Tetrachloroethane		<5	<5	<10	<10	<5
Toluene		<5	<5	5.4	J	4.6
Chlorobenzene		<5	<5	<10	<10	<5
Ethylbenzene		<5	<5	<10	<10	<5
Styrene		<5	<5	<10	<10	<5
Xylene (total)		<5	<5	<10	<10	<5
Vinyl Acetate		<5	<5	<10	<10	<5
Freon 113		<5	<5	<10	2.4	J
cis-1,2-Dichloroethylene		15	<5	78	23	<5
trans-1,2-Dichloroethylene		<5	<5	<10	<10	<5
Chlorodifluoromethane		0.82	J	<5	<10	<5
Dichlorodifluoromethane		<5	<5	<10	<10	<5
Total :		219.85	1.7	1103.3	1133.98	0

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: VP-103 Sample ID: VP-103 (80) Sample Date: 10/10/2006	VP-103 VP-103 (100) 10/10/2006	VP-103 VP-103 (120) 10/10/2006	VP-103 VP-103 (140) 10/11/2006	VP-103 VP-103 (165) 10/11/2006
<u>Volatile Organic Compounds</u>					
Chloromethane	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5
Vinyl Chloride	<2	<2	<2	<2	<2
Chloroethane	<5	<5	<5	<5	<5
Methylene chloride	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10
Carbon disulfide	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	<5
1,1-Dichloroethane	<5	<5	<5	<5	<5
	<5	<5	0.43	J	<5
1,2-Dichloroethane	<5	<5	<5	<5	<5
2-Butanone	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	<5	<5	<5	<5	<5
Carbon tetrachloride	<5	<5	<5	<5	<5
Bromodichloromethane	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5
Trichloroethene	<5	<5	<5	<5	<5
Dibromochloromethane	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5
Benzene	<0.7	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10
Tetrachloroethene	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5
Xylene (total)	<5	<5	<5	<5	<5
Vinyl Acetate	<5	<5	<5	<5	<5
Freon 113	<5	<5	<5	<5	<5
cis-1,2-Dichloroethylene	<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene	<5	<5	<5	<5	<5
Chlorodifluoromethane	<5	<5	<5	<5	<5
Dichlorodifluoromethane	<5	<5	<5	<5	<5
Total :	0	0	0.43	0	0

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data, Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: VP-103 Sample ID: VP-103 (180) Sample Date: 10/11/2006	VP-103 VP-103 (200) 10/12/2006	VP-103 VP-103 (220) 10/12/2006	VP-103 VP-103 (240) 10/12/2006	VP-103 VP-103 (260) 10/12/2006
<u>Volatile Organic Compounds</u>					
Chloromethane	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5
Vinyl Chloride	<2	<2	<2	<2	<2
Chloroethane	<5	<5	<5	<5	<5
Methylene chloride	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10
Carbon disulfide	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	9.3
1,1-Dichloroethane	<5	<5	<5	<5	19
	<5	<5	<5	<5	1.4 J
1,2-Dichloroethane	<5	<5	<5	<5	<5
2-Butanone	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	<5	<5	<5	<5	10
Carbon tetrachloride	<5	<5	<5	<5	<5
Bromodichloromethane	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5
Trichloroethene	<5	<5	<5	43	280 D
Dibromochloromethane	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5
Benzene	<0.7	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10
Tetrachloroethene	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5
Xylene (total)	<5	<5	<5	<5	<5
Vinyl Acetate	<5	<5	<5	<5	<5
Freon 113	<5	<5	<5	<5	<5
cis-1,2-Dichloroethylene	<5	<5	<5	55	110
trans-1,2-Dichloroethylene	<5	<5	<5	<5	0.37 J
Chlorodifluoromethane	<5	<5	<5	<5	<5
Dichlorodifluoromethane	<5	<5	<5	<5	<5
Total :	0	0	0	98	430.07

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: VP-103 Sample ID: VP-103 (285) Sample Date: 10/13/2006	VP-103 VP-103 (320) 10/16/2006	VP-103 VP-103 (345) 10/16/2006	VP-103 VP-103 (360) 10/17/2006	VP-103 VP-103 (380) 10/17/2006
<u>Volatile Organic Compounds</u>					
Chloromethane	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5
Vinyl Chloride	<2	<2	<2	<2	<2
Chloroethane	<5	<5	<5	<5	<5
Methylene chloride	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10
Carbon disulfide	<5	<5	<5	<5	<5
1,1-Dichloroethane	<5	30	2.8	J 5.3	<5
1,1-Dichloroethane	<5	17	10	<5	<5
	<5	4	J 1.7	J <5	<5
1,2-Dichloroethane	<5	4.3	J <5	<5	<5
2-Butanone	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	<5	16	2.9	J 4.1	J <5
Carbon tetrachloride	<5	2	J <5	<5	<5
Bromodichloromethane	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5
Trichloroethene	25	1900	D 450	DJ 380	D 3.4
Dibromochloromethane	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5
Benzene	<0.7	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10
Tetrachloroethene	<5	<5	0.65	J <5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5
Xylene (total)	<5	<5	<5	<5	<5
Vinyl Acetate	<5	<5	<5	<5	<5
Freon 113	<5	<5	<5	<5	<5
cis-1,2-Dichloroethylene	13	270	190	J 14	<5
trans-1,2-Dichloroethylene	<5	1.1	J 1.2	J <5	<5
Chlorodifluoromethane	<5	<5	<5	<5	<5
Dichlorodifluoromethane	<5	<5	<5	<5	<5
Total :	38	2244.4	659.25	403.4	3.4

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data, Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: VP-103 Sample ID: VP-103 (400) Sample Date: 10/17/2006	VP-103 VP-103 (420) 10/18/2006	VP-103 VP-103 (440) 10/18/2006	VP-103 VP-103 (460) 10/18/2006	VP-103 VP-103 (480) 10/18/2006
<u>Volatile Organic Compounds</u>					
Chloromethane	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5
Vinyl Chloride	<2	<2	<2	<2	<2
Chloroethane	<5	<5	<5	<5	<5
Methylene chloride	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10
Carbon disulfide	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	<5
1,1-Dichloroethane	<5	<5	<5	<5	<5
	<5	<5	<5	<5	<5
1,2-Dichloroethane	<5	<5	<5	<5	<5
2-Butanone	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	<5	<5	<5	<5	<5
Carbon tetrachloride	<5	<5	<5	<5	<5
Bromodichloromethane	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5
Trichloroethene	0.51	J	<5	<5	<5
Dibromochloromethane	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5
Benzene	<0.7	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10
Tetrachloroethene	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5
Xylene (total)	<5	<5	<5	<5	<5
Vinyl Acetate	<5	<5	<5	<5	<5
Freon 113	<5	<5	<5	<5	<5
cis-1,2-Dichloroethylene	<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene	<5	<5	<5	<5	<5
Chlorodifluoromethane	<5	<5	<5	<5	<5
Dichlorodifluoromethane	<5	<5	<5	<5	<5
Total :	0.51	0	0	0	0

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data, Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: VP-103 Sample ID: VP-103 (500) Sample Date: 10/19/2006	VP-103 VP-103 (525) 10/19/2006	VP-103 VP-103 (545) 10/20/2006	VP-103 VP-103 (560) 10/20/2006	VP-103 VP-103 (580) 10/23/2006
<u>Volatile Organic Compounds</u>					
Chloromethane	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5
Vinyl Chloride	<2	<2	<2	<2	<2
Chloroethane	<5	<5	<5	<5	<5
Methylene chloride	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10
Carbon disulfide	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	<5
1,1-Dichloroethane	<5	<5	<5	<5	<5
	<5	<5	<5	<5	<5
1,2-Dichloroethane	<5	<5	<5	<5	<5
2-Butanone	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	<5	<5	<5	<5	<5
Carbon tetrachloride	<5	<5	<5	<5	<5
Bromodichloromethane	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5
Trichloroethene	<5	<5	<5	<5	<5
Dibromochloromethane	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5
Benzene	<0.7	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10
Tetrachloroethene	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5
Xylene (total)	<5	<5	<5	<5	<5
Vinyl Acetate	<5	<5	<5	<5	<5
Freon 113	<5	<5	<5	<5	<5
cis-1,2-Dichloroethylene	<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene	<5	<5	<5	<5	<5
Chlorodifluoromethane	<5	<5	<5	<5	<5
Dichlorodifluoromethane	<5	<5	<5	<5	<5
Total :	0	0	0	0	0

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data, Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: VP-103 Sample ID: VP-103 (600) Sample Date: 10/23/2006	VP-103 VP-103 (620) 10/23/2006	VP-103 VP-103 (640) 10/24/2006	VP-103 VP-103 (660) 10/24/2006	VP-23A VP-23A (57-62) 10/12/2006
<u>Volatile Organic Compounds</u>					
Chloromethane	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5
Vinyl Chloride	<2	<2	<2	<2	<2
Chloroethane	<5	<5	<5	<5	<5
Methylene chloride	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10
Carbon disulfide	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	<5
1,1-Dichloroethane	<5	<5	<5	<5	<5
	<5	<5	<5	<5	2.4 J
1,2-Dichloroethane	<5	<5	<5	<5	<5
2-Butanone	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	<5	<5	<5	<5	<5
Carbon tetrachloride	<5	<5	<5	<5	<5
Bromodichloromethane	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5
Trichloroethene	<5	<5	<5	<5	38
Dibromochloromethane	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5
Benzene	<0.7	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10
Tetrachloroethene	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5
Xylene (total)	<5	<5	<5	<5	<5
Vinyl Acetate	<5	<5	<5	<5	<5
Freon 113	<5	<5	<5	<5	<5
cis-1,2-Dichloroethylene	<5	<5	<5	<5	51
trans-1,2-Dichloroethylene	<5	<5	<5	<5	0.43 J
Chlorodifluoromethane	<5	<5	<5	<5	17
Dichlorodifluoromethane	<5	<5	<5	<5	<5
Total :	0	0	0	0	108.83

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1B. Validated On and Off Site Vertical Profile Borings Volatile Organic Compounds Data, Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT	Site ID: VP-23A Sample ID: VP-23A (62-67) Sample Date: 10/12/2006	VP-28A VP-28A (53-58) 6/5/2006	VP-35 VP-P-35 (51-56) 10/13/2006	VP-35 VP-P-35 (57-62) 10/13/2006	VP-35 VP-P-35 (62-67) 10/13/2006
<u>Volatile Organic Compounds</u>					
Chloromethane	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5
Vinyl Chloride	<2	0.9	J	<2	<2
Chloroethane	<5	<5	<5	<5	<5
Methylene chloride	<5	2	JB	<5	<5
Acetone	<10	10	2.7J	J	<10
Carbon disulfide	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	<5
1,1-Dichloroethane	<5	4	J	<5	<5
	<5	<5	0.61	J	<5
1,2-Dichloroethane	<5	<5	<5	<5	<5
2-Butanone	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	<5	<5	<5	<5	<5
Carbon tetrachloride	<5	<5	<5	<5	<5
Bromodichloromethane	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5
Trichloroethene	9.7	46	6.7	5.8	<5
Dibromochloromethane	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5
Benzene	<0.7	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10
Tetrachloroethene	<5	<5	<5	<5	<5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	<5
Toluene	<5	1	J	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5
Xylene (total)	<5	1	J	<5	<5
Vinyl Acetate	<5	<5	<5	<5	<5
Freon 113	<5	<5	<5	<5	<5
cis-1,2-Dichloroethylene	8.1	130	10	2.3	J
trans-1,2-Dichloroethylene	<5	<5	<5	<5	<5
Chlorodifluoromethane	8.5	<5	220	D	200
Dichlorodifluoromethane	<5	<5	<5	<5	<5
Total :	26.3	194.9	237.31	208.1	25

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary diluti

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Table 1C. Validated On-Site Soil Boring Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT (ug/kg)	Site ID: Sample ID: Sample Date:	H3 H-3-SB(36-38) 10/24/2006	H3 H-3-SB(38-40) 10/24/2006	H3 H-3-SB(40-42) 10/24/2006	H3 H-3-SB(42-44) 10/24/2006	H3 H-3-SB(44-46) 10/24/2006
<u>Volatile Organic Compounds</u>						
1,1,1-Trichloroethane		<10	<10	<1200	<14000	<14000
1,1,2,2-Tetrachloroethane		<10	<10	<1200	<14000	<14000
1,1,2-Trichloroethane		<10	<10	<1200	<14000	<14000
1,1-Dichloroethane		<10	<10	<1200	<14000	<14000
1,1-Dichloroethylene		<10	<10	<1200	<14000	<14000
1,2-Dichloroethane		<10	<10	<1200	<14000	<14000
1,2-Dichloropropane		<10	<10	<1200	<14000	<14000
2-Hexanone		<10	<10	<1200	<14000	<14000
Acetone		<10	<10	730	J <14000	<14000
Benzene		<10	<10	<1200	<14000	<14000
Bromodichloromethane		<10	<10	<1200	<14000	<14000
Bromoform		<10	<10	<1200	<14000	<14000
Carbon disulfide		<10	0.22	J <1200	<14000	<14000
Carbon tetrachloride		<10	<10	<1200	<14000	<14000
Chlorobenzene		<10	<10	<1200	<14000	<14000
Chlorodifluoromethane		<10	<10	<1200	<14000	<14000
Chloroethane		<10	<10	<1200	<14000	<14000
Chloroform		<10	<10	<1200	<14000	<14000
cis-1,2-Dichloroethylene		<10	<10	<1200	<14000	<14000
cis-1,3-Dichloropropene		<10	<10	<1200	<14000	<14000
Dibromochloromethane		<10	<10	<1200	<14000	<14000
Dichlorodifluoromethane		<10	<10	<1200	<14000	<14000
trans-1,2-Dichloroethylene		<10	<10	<1200	<14000	<14000
Ethylbenzene		<10	<10	9200	31000	30000
Freon 113		<10	<10	<1200	<14000	<14000
Bromomethane		<10	<10	<1200	<14000	<14000
Chloromethane		<10	<10	<1200	<14000	<14000
2-Butanone(MEK)		<10	<10	<1200	<14000	<14000
4-Methyl-2-pentanone		<10	<10	<1200	<14000	<14000
Methylene chloride		<10	<10	<1200	<14000	<14000
Styrene		<10	<10	<1200	<14000	<14000
Tetrachloroethylene		<10	<10	<1200	<14000	<14000
Toluene		<10	<10	6900	220000	220000
trans-1,3-Dichloropropene		<10	<10	<1200	<14000	<14000
Trichloroethylene		<10	<10	<1200	<14000	<14000
Vinyl Acetate		<10	<10	<1200	<14000	<14000
Xylene (total)		<10	1.6	J 60000	140000	140000
Vinyl chloride		<10	<10	<1200	<14000	<14000
Total :		373.00	1.82	76,830	391,000	390,000

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary dilution.

B : Detected in associated blank.

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Table 1C. Validated On-Site Soil Boring Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT (ug/kg)	Site ID: Sample ID: Sample Date:	H3 H-3-SB(46-48) 10/24/2006	H7 H-7-SB(43-45) 10/30/2006	H7 H-7-SB(45-47) 10/30/2006	H7 H-7-SB(50-52) 10/31/2006	I4 I-4-SB(28-30) 10/18/2006			
<u>Volatile Organic Compounds</u>									
1,1,1-Trichloroethane		<1400	<12	<12	<120	<1200			
1,1,2,2-Tetrachloroethane		<1400	<12	<12	<120	<1200			
1,1,2-Trichloroethane		<1400	<12	<12	<120	<1200			
1,1-Dichloroethane		<1400	<12	<12	<120	<1200			
1,1-Dichloroethylene		<1400	<12	<12	<120	<1200			
1,2-Dichloroethane		<1400	<12	<12	<120	<1200			
1,2-Dichloropropane		<1400	<12	<12	<120	<1200			
2-Hexanone		<1400	<12	<12	<120	<1200			
Acetone		<1400	<12	<12	<120	<1200			
Benzene		<1400	<12	<12	<120	<1200			
Bromodichloromethane		<1400	<12	<12	<120	<1200			
Bromoform		<1400	<12	<12	<120	<1200			
Carbon disulfide		<1400	<12	<12	<120	<1200			
Carbon tetrachloride		<1400	<12	<12	<120	<1200			
Chlorobenzene		<1400	<12	<12	<120	<1200			
Chlorodifluoromethane		<1400	<12	<12	<120	<1200			
Chloroethane		<1400	<12	<12	<120	<1200			
Chloroform		<1400	<12	<12	<120	<1200			
cis-1,2-Dichloroethylene		210	J	0.39	J	<12	230	<1200	
cis-1,3-Dichloropropene		<1400	<12	<12	<12	<120	<1200		
Dibromochloromethane		<1400	<12	<12	<12	<120	<1200		
Dichlorodifluoromethane		<1400	<12	<12	<12	<120	<1200		
trans-1,2-Dichloroethylene		<1400	<12	<12	<12	<120	<1200		
Ethylbenzene		1700	1.6	J	<12	42	J	2300	
Freon 113		<1400	<12	<12	<12	<120	<1200		
Bromomethane		<1400	<12	<12	<12	<120	<1200		
Chloromethane		<1400	<12	<12	<12	<120	<1200		
2-Butanone(MEK)		<1400	<12	<12	<12	<120	<1200		
4-Methyl-2-pentanone		<1400	<12	<12	<12	<120	<1200		
Methylene chloride		<1400	<12	<12	<12	<120	<1200		
Styrene		<1400	<12	<12	<12	<120	<1200		
Tetrachloroethylene		<1400	0.28	J	<12	<120	<1200		
Toluene		15000	<12	<12	<12	300	B	17000	
trans-1,3-Dichloropropene		<1400	<12	<12	<12	<120	<1200		
Trichloroethylene		250	J	0.79	J	<12	2300	<1200	
Vinyl Acetate		<1400	<12	<12	<12	<120	<1200		
Xylene (total)		8400	2.5	J	<12	110	J	11000	
Vinyl chloride		<1400	<12	<12	5.9	J	44	J	<1200
Total :		25,560	5.56	5.90	3,026	30,300			

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary

B : Detected in associated blank.

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Table 1C. Validated On-Site Soil Boring Volatile Organic Compounds Data,
Northrop Grumman, Former Settling Ponds (OU3 - Bethpage Community Park), Bethpage, New York

CONSTITUENT (ug/kg)	Site ID:	I4	I4	
	Sample ID:	1-4-SB(38-40)	I-4-SB(46-48)	
	Sample Date:	10/18/2006	10/19/2006	
<u>Volatile Organic Compounds</u>				
1,1,1-Trichloroethane		<14000	3300	
1,1,2,2-Tetrachloroethane		<14000	<1500	
1,1,2-Trichloroethane		<14000	88	J
1,1-Dichloroethane		<14000	<1500	
1,1-Dichloroethylene		<14000	140	J
1,2-Dichloroethane		<14000	<1500	
1,2-Dichloropropane		<14000	<1500	
2-Hexanone		<14000	<1500	
Acetone		<14000	<1500	
Benzene		<14000	<1500	
Bromodichloromethane		<14000	<1500	
Bromoform		<14000	<1500	
Carbon disulfide		<14000	<1500	
Carbon tetrachloride		<14000	<1500	
Chlorobenzene		<14000	<1500	
Chlorodifluoromethane		<14000	<1500	
Chloroethane		<14000	<1500	
Chloroform		<14000	<1500	
cis-1,2-Dichloroethylene		<14000	36000	D
cis-1,3-Dichloropropene		<14000	<1500	
Dibromochloromethane		<14000	<1500	
Dichlorodifluoromethane		<14000	<1500	
trans-1,2-Dichloroethylene		<14000	<1500	
Ethylbenzene		20000	11000	
Freon 113		<14000	<1500	
Bromomethane		<14000	<1500	
Chloromethane		<14000	<1500	
2-Butanone(MEK)		<14000	<1500	
4-Methyl-2-pentanone		<14000	<1500	
Methylene chloride		<14000	<1500	
Styrene		<14000	<1500	
Tetrachloroethylene		<14000	2500	
Toluene		210000	30000	
trans-1,3-Dichloropropene		<14000	<1500	
Trichloroethylene		<14000	270000	D
Vinyl Acetate		<14000	<1500	
Xylene (total)		84000	51000	
Vinyl chloride		<14000	580	J
Total :		314,000	404,608	

Notes:

ug/L : Micrograms per liter.

J : Estimated value.

D : Constituent quantified at a secondary

B : Detected in associated blank.