



*Infrastructure, environment, facilities*

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Subject:  
 November 2006 Monthly Progress Report  
 Northrop Grumman Systems Corporation  
 Operable Unit 3  
 NYSDEC Site ID # 1-30-003A  
 Bethpage, New York  
 ARCADIS Project No. NY001348.0906.00003

ENVIRONMENT

Date,  
 December 11, 2006

Dear Mr. Scharf:

Contact:  
 Carlo San Giovanni

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 (NGC) during the month of November 2006; activities planned for December 2006 are also discussed. This report is the ninth OU3 monthly progress report since the AOC between NGC and the New York State Department of Environmental Conservation (NYSDEC) was signed on June 24, 2005. Attached, please find Table 1 providing recent validated groundwater data that was collected on- and off-site as part of the Phase 2 Remedial Investigation (RI). On- and off-site sample locations are shown on Figures 1 and 2, respectively.

Extension:  
 631-391-5259

### **OU3 Activities Conducted During November 2006**

- Prepared and submitted the October 2006 Monthly Progress Report.
- Continued coordination and planning for Phase 2 RI, including:
  - Finalized Work Plan Addendum No. 6 (proposed test pits and methodology) and submitted to NYSDEC.
  - Prepared and submitted Work Plan Addendum No.7 to NYSDEC for additional VPBs south of VPB-103 and additional MIP investigation in "Monument Area". Received approval from NYSDEC for Work Plan Addendum No. 7.
  - Initiate preparation of draft Work Plan Addendum #8 for additional soil gas sampling
  - Continued evaluations of need for IRM.

Imagine the result

- Attended Town of Oyster Bay kickoff meeting for remediation/redevelopment project.
- Phase 2 RI activities, including:
  - Completed installation of on-site monitoring wells MW-4-1 and 4-2, and continued installation of monitoring well MW-5-1.
  - Complete MIP investigation in Monument Area.
  - Completed the installation/sampling of Soil Gas Point SGP-11.
- RI data review/evaluation, including:
  - Continued preparation of boring logs for completed borings.
  - 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.
  - Completed and submitted the B-43 Area Data Report to NYSDEC.
  - Completed Submitted Work Plan Addendum No. 6 to the NYSDEC.
  - Sent letter to NYSDEC summarizing preliminary results of VP-104 and VP-100.

**OU3 Activities Expected During December 2006**

- Prepare and submit November 2006 Monthly Progress Report.
- Phase 2 RI planning/coordination activities, including:
  - Finalize and submit Work Plan Addenda No. 8 (soil gas sampling) to NYSDEC for review and approval.
- Phase 2 RI activities, including:
  - Initiate field work proposed in Work Plan Addenda No. 6.

- Initiate field work for Work Plan Addendum No. 8, assuming approval by NYSDEC.
- Installation/Sampling of off-site VPBs 109 and 110.
- Complete installation and development of Well MW-5-1.
- Continue weekly monitoring of perched water in on-site piezometers and monthly monitoring of groundwater VOCs in Wells BCPMW-3; BCPMW4-1; and BCPMW4-2.
- RI data review/evaluation, as follows:
  - Continue evaluation (via EVS software) of soil, soil-gas, CPT/MIP, and groundwater data toward development of Phase 2 RI soil boring program and a revised CSM.
  - Continue to validate and tabulate analytical data received from laboratory.
  - Continue to identify and begin preparation of selected figures of analytical results and interpretations.
  - Continue to prepare boring logs for completed borings.
  - Continue to review analytical data to determine if data gaps exist.
  - Continue evaluation of need for IRM.

Please contact us if you have any questions.

Sincerely,

ARCADIS G&M, Inc.



Carlo San Giovanni  
Project Manager

Copies:

M. Wolfert, ARCADIS  
D. Stern, ARCADIS  
File, ARCADIS  
L. Leskovjan, NGC  
J. Cofman, NGC  
S. Clarke, NAVFAC Midlant  
D. Brayack, TTNUS

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Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-10A (50-55) 6/13/2006	VP-10A (55-60) 6/12/2006	VP-10A (60-65) 6/12/2006	VP-34 (50-55) 6/16/2006	VP-34 (57-62) 6/16/2006
<b><u>Volatile Organic Compounds</u></b>						
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	5J	<10
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	<5	<5	<5	<5
Chloroform		<5	<5	1J	<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	11	26	1J	0.3J
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	0.4J	<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
cis-1,2-Dichloroethylene		1J	3J	12	<5	<5
trans-1,2-Dichloroethylene		<5	<5	0.4J	<5	<5
Chlorodifluoromethane		<5	<5	<5	0.9J	0.7J
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

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Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-34 (62-67) 6/16/2006	VP-36 (52-57) 6/14/2006	VP-36 (57-62) 6/14/2006	VP-36 (62-67) 6/14/2006	VP-36 (47-52) 6/15/2006
<b><u>Volatile Organic Compounds</u></b>						
Chloromethane		<5	<5	<5	<5	<5
Bromomethane		<5	<5	<5	<5	<5
Vinyl Chloride		<2	7	9	4	30
Chloroethane		<5	<5	<5	<5	<5
Methylene chloride		<5	<5	<5	<5	<5B
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	2J	<5	<5	5J
Chloroform		<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	67	21	4J	99
Dibromochloromethane		<5	<5	<5	<5	<5
1,1,2-Trichloroethane		<5	<5	<5	<5	<5
Benzene		<0.7	<0.7	<0.7	<0.7	0.3J
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	0.6J	<5	<5	0.9J
1,1,2,2-Tetrachloroethane		<5	<5	<5	<5	<5
Toluene		<5	2J	3J	3J	86
Chlorobenzene		<5	<5	<5	<5	2J
Ethylbenzene		<5	<5	<5	<5	6
Styrene		<5	<5	<5	<5	<5
Xylene (total)		<5	0.9J	0.9J	1J	30
Vinyl Acetate		<5	<5	<5	<5	<5
cis-1,2-Dichloroethylene		<5	97	14	5	180D
trans-1,2-Dichloroethylene		<5	<5	<5	<5	0.9J
Chlorodifluoromethane		<5	<5	<5	<5	0.4J
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

ug/L      Micrograms per liter.  
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Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-100 (75-80) 9/14/2006	VP-100 (105-110) 9/14/2006	VP-100 (125-130) 9/13/2006	VP-100 (145-150) 9/13/2006	VP-100 (160-165) 9/12/2006
<b><u>Volatile Organic Compounds</u></b>						
Chloromethane		<5	<5	<5	<5	<5
Bromomethane		<5	<5	<5	<5	<5
Vinyl Chloride		<2	<2	<2	<2	2J
Chloroethane		<5	<5	<5	<5	<5
Methylene chloride		<5B	<5B	<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	3J
Chloroform		9	2J	0.7J	0.7J	2J
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		17	22	97	190	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	<5	<5
1,1,2,2-Tetrachloroethane		<5	<5	<5	<5	<5
Toluene		2J	1J	<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
cis-1,2-Dichloroethylene		100	140	930D	1500D	360D
trans-1,2-Dichloroethylene		<5	<5	0.9J	<5	<5
Chlorodifluoromethane		14	3J	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-100 (180-185) 9/12/2006	VP-100 (190-195) 9/12/2006	VP-100 (200-205) 9/11/2006	VP-100 (210-215) 9/11/2006	VP-100 (220-225) 9/11/2006
<b><u>Volatile Organic Compounds</u></b>						
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
Chloroform		<5	2J	0.6J	<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		32	20	11	15	14
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	0.6J	<5	<5	<5
1,1,2,2-Tetrachloroethane		<5	<5	<5	<5	<5
Toluene		<5	<5	0.8J	<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
cis-1,2-Dichloroethylene		66	16	11	22	17
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	2J	2J
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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--        Not Analyzed.  
J        Estimated value.  
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Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID:	VP-100	VP-100	VP-100	VP-100	VP-100
	Depth (ft bls): Date:	(230-235) 9/8/2006	(240-245) 9/8/2006	(250-255) 9/7/2006	(270-275) 9/7/2006	(290-295) 9/6/2006
<b><u>Volatile Organic Compounds</u></b>						
Chloromethane		<5	<5	<5	<5	<10
Bromomethane		<5	<5	<5	<5	<10
Vinyl Chloride		<2	<2	<2	<2	<4
Chloroethane		<5	<5	<5	<5	<10
Methylene chloride		<5	<5	<5	<5	<10
Acetone		<10	<10	<10	<10	<20
Carbon disulfide		<5	<5	<5	<5	<10
1,1-Dichloroethene		<5	<5	<5	<5	<10
1,1-Dichloroethane		<5	<5	<5	<5	<10
Chloroform		<5	<5	<5	<5	<10
1,2-Dichloroethane		<5	<5	<5	<5	<10
2-Butanone		<10	<10	<10	<10	<20
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		20	47	86	240D	190
Dibromochloromethane		<5	<5	<5	<5	<10
1,1,2-Trichloroethane		<5	<5	<5	<5	<10
Benzene		<0.7	<0.7	<0.7	<0.7	<1
trans-1,3-Dichloropropene		<5	<5	<5	<5	<10
Bromoform		<5	<5	<5	<5	<10
4-Methyl-2-pentanone		<10	<10	<10	<10	<20
2-Hexanone		<10	<10	<10	<10	<20
Tetrachloroethene		2J	3J	2J	3J	<10
1,1,2,2-Tetrachloroethane		<5	<5	<5	<5	<10
Toluene		1J	<5	8	3J	1J
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
cis-1,2-Dichloroethylene		3J	2J	3J	8	7J
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<10
Chlorodifluoromethane		<5	<5	<5	<5	<10
trichlorotrifluoroethane		<5	<5	<5	<5	<10
Dichlorodifluoromethane		<5	<5	<5	<5	<10

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



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Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-100 (310-315) 9/6/2006	VP-100 (330-335) 9/5/2006	VP-100 (350-355) 9/5/2006	VP-100 (371-376) 9/1/2006	VP-100 (394-399) 9/1/2006
<b><u>Volatile Organic Compounds</u></b>						
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
Chloroform		<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		18	11	2J	0.6J	1J
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		3J	6	<5	0.5J	0.8J
1,1,2,2-Tetrachloroethane		<5	<5	<5	<5	<5
Toluene		1J	1J	<5	0.7J	<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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	0.9J	<5	<5	0.7J
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-101 (60) 6/27/2006	VP-101 (80) 6/27/2006	VP-101 (100) 6/28/2006	VP-101 (120) 6/28/2006	VP-101 (140) 6/28/2006
<b><u>Volatile Organic Compounds</u></b>						
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	<10	<5	<5	<5
Acetone		<10	<36	<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
Chloroform		<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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-101 (167) 6/29/2006	VP-101 (180) 6/29/2006	VP-101 (200) 6/30/2006	VP-101 (227) 6/30/2006	VP-101 (240) 7/5/2006
<b><u>Volatile Organic Compounds</u></b>						
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	1JB	<5
Acetone		<10	<10	4J	5J	<10
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	<5	--	<5	--
Chloroform		<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	0.8J	<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	0.6J	<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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-101 (260) 7/5/2006	VP-101 (287) 7/6/2006	VP-101 (300) 7/6/2006	VP-101 (320) 7/6/2006	VP-101 (340) 7/6/2006
<b><u>Volatile Organic Compounds</u></b>						
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	6J
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	--	<5 #	<5	<5
Chloroform		<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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<10	<10
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<10	<10

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

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-101 (360) 7/7/2006	VP-101 (387) 7/10/2006	VP-101 (400) 7/10/2006	VP-101 (420) 7/11/2006	VP-101 (440) 7/11/2006
<b><u>Volatile Organic Compounds</u></b>						
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	4J	6J	<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
Chloroform		<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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<10	<10	<10	<10	<10
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<10	<10	<10	<10	<10

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-101 (460) 7/11/2006	VP-101 (480) 7/12/2006	VP-101 (507) 7/13/2006	VP-104 (60) 7/28/2006	VP-104 (80) 7/28/2006
<b><u>Volatile Organic Compounds</u></b>						
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	<16	<10
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	<5	<5	<5	<5
Chloroform		<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	1J
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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<10	<10	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<10	<10	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-104 (100) 7/31/2006	VP-104 (120) 7/31/2006	VP-104 (140) 7/31/2006	VP-104 (160) 7/31/2006	VP-104 (180) 8/1/2006
<b><u>Volatile Organic Compounds</u></b>						
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
Chloroform		<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		2J	150	8	19	2J
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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-104 (200) 8/1/2006	VP-104 (220) 8/1/2006	VP-104 (240) 8/1/2006	VP-104 (260) 8/2/2006	VP-104 (280) 8/2/2006
<b><u>Volatile Organic Compounds</u></b>						
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
Chloroform		<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		3J	5J	7	7	7
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
cis-1,2-Dichloroethylene		<5	1J	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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



# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-104 (300) 8/2/2006	VP-104 (320) 8/3/2006	VP-104 (340) 8/3/2006	VP-104 (360) 8/3/2006	VP-104 (380) 8/7/2006
<b><u>Volatile Organic Compounds</u></b>						
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	<11
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	3J	<5	<5	<5
1,1-Dichloroethane		<5	7	<5	<5	<5
Chloroform		<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		2J	0.9J	<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		0.8J	<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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

ug/L Micrograms per liter.  
 mg/L milligrams per liter.  
 – Not Analyzed.  
 J Estimated value.  
 D **Constituent quantified at a secondary**

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-104 (400) 8/7/2006	VP-104 (420) 8/7/2006	VP-104 (460) 8/8/2006	VP-104 (480) 8/8/2006	VP-104 (500) 8/8/2006
<b><u>Volatile Organic Compounds</u></b>						
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		3J	4J	<5	9	2J
1,1-Dichloroethane		10	11	<5	15	2J
Chloroform		0.7J	0.7J	<5	2J	6
1,2-Dichloroethane		<5	<5	<5	<5	<5
2-Butanone		<10	<10	<10	<10	<10
1,1,1-Trichloroethane		3J	3J	<5	6	1J
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		3J	3J	0.3J	72	190D
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		2J	2J	<5	19	4J
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
cis-1,2-Dichloroethylene		<5	<5	<5	20	84
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-104 (520) 8/14/2006	VP-104 (540) 8/14/2006	VP-104 (560) 8/14/2006	VP-104 (580) 8/15/2006	VP-104 (600) 8/15/2006
<b><u>Volatile Organic Compounds</u></b>						
Chloromethane		<5	<25	<25	<5	<5
Bromomethane		<5	<25	<25	<5	<5
Vinyl Chloride		<2	<10	<10	<2	<2
Chloroethane		<5	<25	<25	<5	<5
Methylene chloride		<5	<25	<25	<5	<5
Acetone		5J	<50	<50	<10	<10
Carbon disulfide		<5	<25	<25	<5	<5
1,1-Dichloroethene		2J	4J	7J	<5	<5
1,1-Dichloroethane		3J	<25	<25	<5	<5
Chloroform		<18	<25	<25	<5	<5
1,2-Dichloroethane		16	<25	12J	<5	<5
2-Butanone		<10	<50	<50	<10	<10
1,1,1-Trichloroethane		<5	<25	<25	<5	<5
Carbon tetrachloride		<5	<25	<25	<5	<5
Bromodichloromethane		<5	<25	<25	<5	<5
1,2-Dichloropropane		<5	<200	<250	<5	<5
cis-1,3-Dichloropropene		<5	<25	<25	<5	<5
Trichloroethene		1400D	3200D	6300D	110	17
Dibromochloromethane		<5	<25	<25	<5	<5
1,1,2-Trichloroethane		3J	<25	5J	<5	<5
Benzene		<0.7	<4	<4	<0.7	<0.7
trans-1,3-Dichloropropene		<5	<25	<25	<5	<5
Bromoform		<5	<25	<25	<5	<5
4-Methyl-2-pentanone		<10	<50	<50	<10	<10
2-Hexanone		<10	<50	<50	<10	<10
Tetrachloroethene		12	3J	7J	<5	<5
1,1,2,2-Tetrachloroethane		<5	<25	<25	<5	<5
Toluene		<5	<25	<25	<5	<5
Chlorobenzene		<5	<25	<25	<5	<5
Ethylbenzene		<5	<25	<25	<5	<5
Styrene		<5	<25	<25	<5	<5
Xylene (total)		<5	<25	<25	<5	<5
Vinyl Acetate		<5	<25	<25	<5	<5
cis-1,2-Dichloroethylene		380D	470	290	6	1J
trans-1,2-Dichloroethylene		6	4J	5J	<5	<5
Chlorodifluoromethane		<5	<25	<25	<5	<5
trichlorotrifluoroethane		0.5J	<25	<25	<5	<5
Dichlorodifluoromethane		<5	<25	<25	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-104 (620) 8/15/2006	VP-104 (640) 8/16/2006	VP-104 (660) 8/16/2006	VP-104 (680) 8/16/2006	VP-104 (707) 8/21/2006
<b><u>Volatile Organic Compounds</u></b>						
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		4J	<10	<10	<10	6J
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	<5	<5	<5	<5
Chloroform		<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	8	11	4J	0.5J
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
cis-1,2-Dichloroethylene		1J	<5	0.9J	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

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Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-104 (720) 8/22/2006	VP-104 (740) 8/22/2006	VP-104 (760) 8/23/2006	VP-104 (780) 8/23/2006	VP-104 (800) 8/23/2006
<b><u>Volatile Organic Compounds</u></b>						
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	5J	<10
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	<5	<5	<5	<5
Chloroform		<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		1J	1J	1J	0.9J	1J
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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

ug/L Micrograms per liter.  
 mg/L milligrams per liter.  
 – Not Analyzed.  
 J Estimated value.  
 D Constituent quantified at a secondary

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-104 (820) 8/24/2006	VP-104 (840) 8/24/2006	VP-104 (860) 8/25/2006	VP-104 (880) 8/25/2006	VP-105 (50-45) 8/2/2006
<b><u>Volatile Organic Compounds</u></b>						
Chloromethane		<5	<5	<5	<5	<5
Bromomethane		<5	<5	<5	<5	<5
Vinyl Chloride		<2	<2	<2	<2	0.8J
Chloroethane		<5	<5	<5	<5	<5
Methylene chloride		<5	<5	<5	<5	<5
Acetone		<10	<10	5J	6J	<13
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	<5	<5	<5	<5
Chloroform		<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		0.3J	<5	<5	<5	4J
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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	39
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-105 (60-55) 8/2/2006	VP-105 (70-65) 8/2/2006	VP-105 (80-75) 8/2/2006	VP-105 (90-85) 8/1/2006	VP-105 (100-95) 8/1/2006
<b><u>Volatile Organic Compounds</u></b>						
Chloromethane		<5	<5	<5	<5	<5
Bromomethane		<5	<5	<5	<5	<5
Vinyl Chloride		3	0.8J	7	14	12
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	2J	2J	<5
1,1-Dichloroethane		<5	<5	7	3J	2J
Chloroform		<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		7	3J	51	28	12
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
cis-1,2-Dichloroethylene		74	22	180D	280D	270D
trans-1,2-Dichloroethylene		<5	<5	0.8J	0.5J	0.5J
Chlorodifluoromethane		<5	<5	<5	0.5J	0.6J
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

ug/L Micrograms per liter.  
 mg/L milligrams per liter.  
 – Not Analyzed.  
 J Estimated value.  
 D Constituent quantified at a secondary.

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-105 (107-102) 8/1/2006	VP-105 (120-115) 7/31/2006	VP-105 (130-125) 7/31/2006	VP-105 (140-135) 7/31/2006	VP-105 (150-145) 7/28/2006
<b><u>Volatile Organic Compounds</u></b>						
Chloromethane		<5	<5	<5	<5	<5
Bromomethane		<5	<5	<5	<5	<5
Vinyl Chloride		55J	11	0.8J	<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		5J	0.7J	<5	<5	<5
1,1-Dichloroethane		5J	<5	<5	<5	<5
Chloroform		<5	<5	2J	2J	<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		78J	14	12	8	14
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
cis-1,2-Dichloroethylene		1500D	310D	30	11	220D
trans-1,2-Dichloroethylene		10J	<5	<5	<5	3J
Chlorodifluoromethane		2J	<5	0.9J	2J	4J
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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



Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-105 (160-155) 7/28/2006	VP-105 (170-165) 7/28/2006	VP-106 (49-54) 6/30/2006	VP-106 (55-60) 6/30/2006	VP-106 (65-70) 6/30/2006
<b><u>Volatile Organic Compounds</u></b>						
Chloromethane		<5	<5	<5	<5	<5
Bromomethane		<5	<5	<5	<5	<5
Vinyl Chloride		<2	<2	<2	2J	2J
Chloroethane		<5	<5	<5	<5	<5
Methylene chloride		<5	<5	<5	<5	<5
Acetone		<10	<10	6J	6J	<10
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<5	<5	0.8J	3J
1,1-Dichloroethane		<5	<5	<5	1J	5J
Chloroform		1J	2J	0.5J	0.8J	1J
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		13	6	6	25	85
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	0.4J
1,1,2,2-Tetrachloroethane		<5	<5	<5	<5	<5
Toluene		<5	<5	<5	0.4J	<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
cis-1,2-Dichloroethylene		34	2J	30	140	610D
trans-1,2-Dichloroethylene		1J	<5	<5	0.3J	2J
Chlorodifluoromethane		3J	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-106 (75-80) 6/30/2006	VP-106 (85-90) 6/30/2006	VP-106 (95-100) 6/29/2006	VP-106 (105-110) 6/29/2006	VP-106 (115-120) 6/29/2006
<b><u>Volatile Organic Compounds</u></b>						
Chloromethane		<5	<5	<5	<5	<5
Bromomethane		<5	<5	<5	<5	<5
Vinyl Chloride		31	2J	<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		7	0.6J	<5	<5	<5
1,1-Dichloroethane		8	3J	<5	<5	<5
Chloroform		0.6J	3J	5J	10	11
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		130	41	4J	9	7
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		0.5J	<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
cis-1,2-Dichloroethylene		1100D	140	4J	10	3J
trans-1,2-Dichloroethylene		2J	0.5J	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-107 (50-45) 7/25/2006	VP-107 (60-55) 7/25/2006	VP-107 (70-65) 7/25/2006	VP-107 (80-75) 7/25/2006	VP-107 (90-85) 7/25/2006
<b><u>Volatile Organic Compounds</u></b>						
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
Chloroform		<5	<5	<5	<5	<5
1,2-Dichloroethane		<5	<5	<5	<5	<5
2-Butanone		<10	<10	<10	8J	<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		3J	13	14	26	91
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
cis-1,2-Dichloroethylene		<5	5	5J	16	40
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-107 (100-95) 7/21/2006	VP-107 (110-105) 7/21/2006	VP-107 (124-119) 7/21/2006	VP-107 (140-135) 7/20/2006	VP-107 (153-148) 7/20/2006
<b><u>Volatile Organic Compounds</u></b>						
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		8J	6J	<10	<10	5J
Carbon disulfide		<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	<5	<5	<5	<5
Chloroform		<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	0.6J	<5	2J	2J
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
cis-1,2-Dichloroethylene		<5	<5	<5	<5	<5
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	<5	0.3J	0.3J
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-107 (170-165) 7/20/2006	VP-108 (50-45) 7/14/2006	VP-108 (60-55) 7/14/2006	VP-108 (70-65) 7/14/2006	VP-108 (80-75) 7/14/2006
<b><u>Volatile Organic Compounds</u></b>						
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	8J	7J	<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
Chloroform		<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		7	6	12	8	2J
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		4J	<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
cis-1,2-Dichloroethylene		<5	8	17	9	2J
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		1J	<5	<5	<5	<5
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<5	<5	<5

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

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Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-108 (90-85) 7/14/2006	VP-108 (100-95) 7/14/2006	VP-108 (110-105) 7/13/2006	VP-108 (120-115) 7/13/2006	VP-108 (130-125) 7/13/2006
<b><u>Volatile Organic Compounds</u></b>						
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	1J
1,1-Dichloroethane		<5	<5	<5	<5	3J
Chloroform		<5	8	10	12	<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		16	110	62	110	370D
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	0.8J
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
cis-1,2-Dichloroethylene		16	150	58	130	180D
trans-1,2-Dichloroethylene		<5	<5	<5	<5	<5
Chlorodifluoromethane		<5	<5	1J	<5	2J
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	3J	13	6

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

# ARCADIS

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	VP-108 (140-135) 7/13/2006	VP-108 (150-145) 7/13/2006	VP-108 (160-155) 7/12/2006	VP-108 (170-165) 7/12/2006	BCPMW-4-1 MW 4-1 8/29/2006
<b><u>Volatile Organic Compounds</u></b>						
Chloromethane		<5	<5	<5	<5	<5
Bromomethane		<5	<5	<5	<5	<5
Vinyl Chloride		<2	<2	<2	<2	13
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	1J
1,1-Dichloroethane		<5	<5	<5	<5	2J
Chloroform		<5	<5	<5	3J	<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		60	77	39	80	15
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	0.7J	<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
cis-1,2-Dichloroethylene		26	18	25	49	520D
trans-1,2-Dichloroethylene		<5	<5	<5	<5	1J
Chlorodifluoromethane		<5	<5	0.3J	0.5J	--
trichlorotrifluoroethane		<5	<5	<5	<5	<5
Dichlorodifluoromethane		<5	<5	<10	<10	

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

Table 1. Concentrations in On and Off Site VPBs, Former Grumman Settling Ponds  
(Operable Unit 3 - Bethpage Community Park), Bethpage, New York

Constituent (units in ug/L)	Sample ID: Depth (ft bls): Date:	BCPMW-4-2 MW 4-2 8/29/2006	PZ-1 PZ-1 6/13/2006
<b><u>Volatile Organic Compounds</u></b>			
Chloromethane		<5	<5
Bromomethane		<5	<5
Vinyl Chloride		1900D	<2
Chloroethane		<5	<5
Methylene chloride		<5	<5
Acetone		<10	<10
Carbon disulfide		<5	<5
1,1-Dichloroethene		6	<5
1,1-Dichloroethane		10	<5
Chloroform		3J	<5
1,2-Dichloroethane		<5	<5
2-Butanone		<10	<10
1,1,1-Trichloroethane		<5	<5
Carbon tetrachloride		<5	<5
Bromodichloromethane		<5	<5
1,2-Dichloropropane		2J	<5
cis-1,3-Dichloropropene		<5	<5
Trichloroethene		3J	37
Dibromochloromethane		<5	<5
1,1,2-Trichloroethane		<5	<5
Benzene		0.5J	<0.7
trans-1,3-Dichloropropene		<5	<5
Bromoform		<5	<5
4-Methyl-2-pentanone		<10	<10
2-Hexanone		<10	<10
Tetrachloroethene		<5	<5
1,1,1,2-Tetrachloroethane		<5	<5
Toluene		<5	1J
Chlorobenzene		<5	<5
Ethylbenzene		<5	<5
Styrene		<5	<5
Xylene (total)		6	<5
Vinyl Acetate		<5	<5
cis-1,2-Dichloroethylene		4300D	<5
trans-1,2-Dichloroethylene		4J	<5
Chlorodifluoromethane		--	<5
trichlorotrifluoroethane		<5	<5
Dichlorodifluoromethane		--	<5

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