

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

Subject:
July 2010 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 Operable Unit 3 (OU3) activities performed by Northrop Grumman Systems Corporation (Northrop Grumman) during the month of July 2010. Activities planned for August 2010 are also discussed.

OU3 Activities Conducted During July 2010

Site Area and Study Area Remedial Investigation/Feasibility Studies (RI/FS)

- Continued preparation of Study Area Focused Feasibility Study (FFS)
- Performed monthly monitoring of Monitoring Well MW116-5
- Validated analytical data associated with the sampling of the Study Area Monitoring Well MW-116-5 are provided in Table 1. Well locations are shown on Figure 1.

Soil Gas IRM

- Continued Operation, Maintenance, and Monitoring (OM&M) of the Soil Gas Interim Remedial Measure (IRM)

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ENVIRONMENT

Date:
August 10 2010

Contact:
David Stern

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631-391-5284

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David.Stern@arcadis-us.com

Our ref:
NY001496.0910.00007

Groundwater IRM

- Continued OM&M of the Groundwater IRM
- Performed the Third Quarter 2010 monitoring event

Other

- Submitted June 2010 AOC Monthly Progress Report to NYSDEC

OU3 Activities Scheduled for August 2010

Site Area and Study Area RI/FSSs

- Submit final Site Area RI Report to NYSDEC
- Perform the August 2010 monitoring of Well MW116-5

Soil Gas IRM

- Continue routine OM&M of the Soil Gas IRM
- Prepare and submit the Second Quarter 2010 OM&M Report to NYSDEC

Groundwater IRM

- Continue routine OM&M of the Groundwater IRM
- Prepare and submit the Second Quarter 2010 OM&M Report to NYSDEC

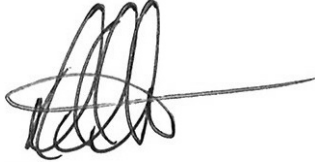
Other

- Submit July 2010 AOC Monthly Progress Report to NYSDEC

Feel free to call us if you have any questions.

Sincerely,

ARCADIS of New York, Inc.

A handwritten signature in black ink, appearing to read 'D. Stern', with a long horizontal line extending to the right.

David E. Stern
Senior Scientist /Associate Project Manager

Copies:

J. Cofman, Northrop Grumman
K. Smith, Northrop Grumman
Bethpage Public Library – Public Repository
C. San Giovanni, ARCADIS
M. Wolfert, ARCADIS
File, ARCADIS



Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW-116-5, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Compound (ug/L)	Location ID: Sample Date:	MW-116-5 5/26/2010	MW-116-5 6/25/2010
1,1,1-Trichloroethane		< 50	< 50
1,1,2,2-Tetrachloroethane		< 50	< 50
1,1,2-Trichloroethane		< 50	< 50
1,1-Dichloroethane		< 50	< 50
1,1-Dichloroethene		< 50	< 50
1,2-Dichloroethane		8.2 J	9 J
1,2-Dichloropropane		< 50	< 50
2-Butanone		< 500	< 500
2-Hexanone		< 500	< 500
4-methyl-2-pentanone		< 500	< 500
Acetone		< 500	< 500
Benzene		< 7	< 7
Bromodichloromethane		< 50	< 50
Bromoform		< 50	< 50
Bromomethane		< 50	< 50
Carbon Disulfide		< 50	< 50
Carbon tetrachloride		< 50	< 50
Chlorobenzene		< 50	< 50
Chlorodifluoromethane (Freon 22)		< 50	< 50
Chloroethane		< 50	< 50
Chloroform		15 J	20 J
Chloromethane		< 50	< 50
cis-1,2-dichloroethene		170	180
cis-1,3-dichloropropene		< 50	< 50
Dibromochloromethane		< 50	< 50
Dichlorodifluoromethane (Freon 12)		< 50	< 50
Ethylbenzene		< 50	< 50
Methyl tert-Butyl Ether		< 50	< 50
Methylene Chloride		< 50	< 50
Styrene		< 50	< 50
Tetrachloroethene		< 50	< 50
Toluene		< 50	< 50
trans-1,2-dichloroethene		< 50	< 50
trans-1,3-dichloropropene		< 50	< 50
Trichloroethylene		1800	1700
Trichlorofluoromethane (Freon 11)		< 50	< 50
Trichlorotrifluoroethane (Freon 113)		< 50	< 50
Vinyl Chloride		< 20	< 20
Xylene-o		< 50	< 50
Xylenes - m,p		< 50	< 50
TVOC		1993	1909

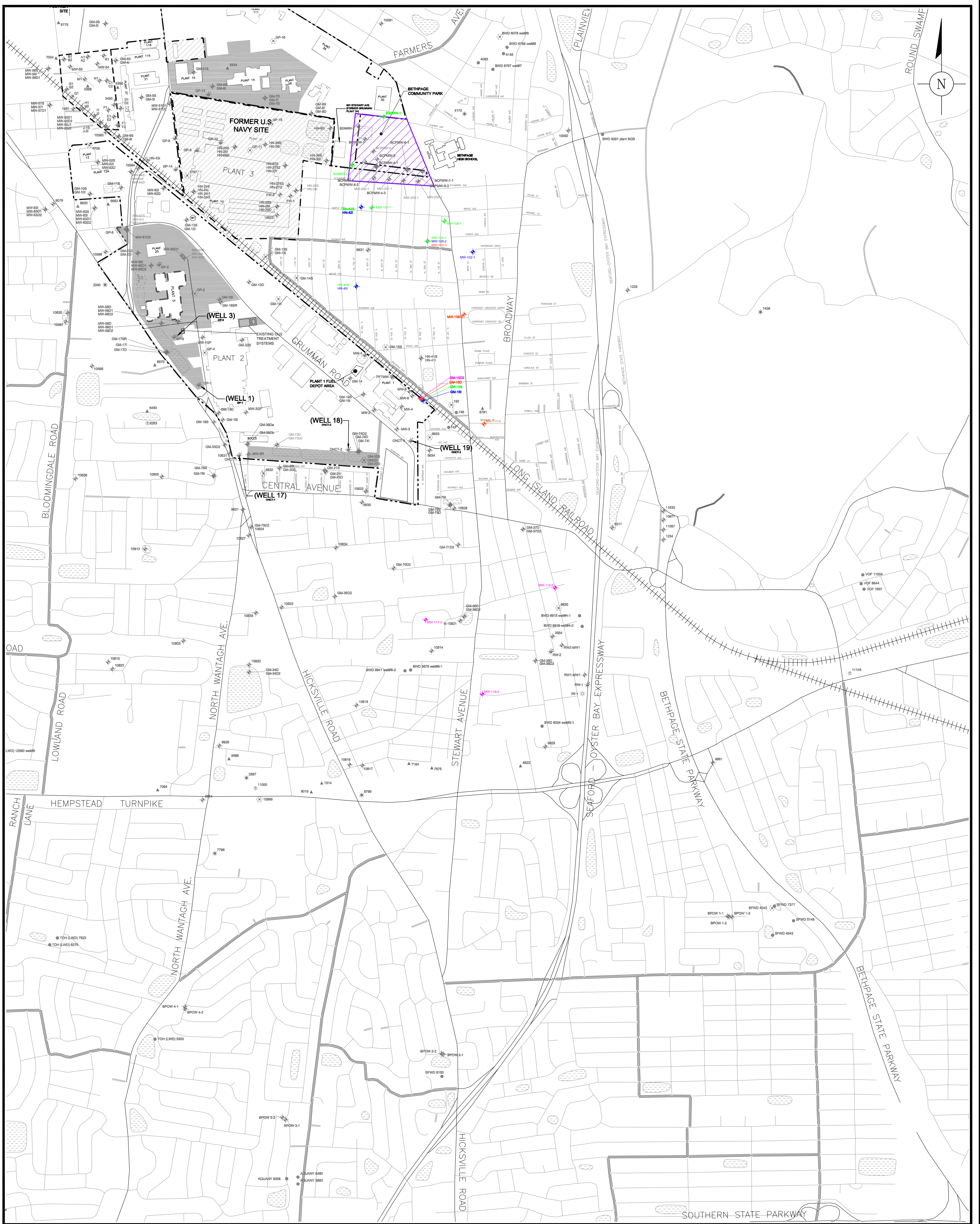
Notes and Abbreviations:

Results validated following protocols specified in March 2006 RI/FS Work Plan (ARCADIS G&M, Inc. 2006).
 Samples analyzed for the TCL VOCs using NYSDEC ASP Method 2000 OLM4.2.

Bold value indicates a detection.

- RI/FS Remedial Investigation/Feasibility Study.
- NYSDEC New York State Department of Environmental Conservation.
- TCL Target compound list.
- VOC Volatile Organic Compound.
- TVOC Total Volatile Organic Compounds
- ASP Analytical services protocol.
- ug/L Micrograms per liter.
- J Value is estimated.

XREFS: IMAGES: PROJECTNAME: NY001493.0809.00008
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EXPLANATION:

- | | | | |
|-------|--|---|--|
| ----- | PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE PROPERTY | + | OBSERVATION, MONITORING WELL |
| ----- | PROPERTY BOUNDARY OF THE FORMER U.S. NAVY PROPERTY | ▲ | INDUSTRIAL WELL |
| ----- | PROPERTY BOUNDARY OF THE FORMER OCC PROPERTY | ● | PUBLIC SUPPLY WELL |
| +++++ | LONG ISLAND RAILROAD | * | IRRIGATION WELL |
| ■ | DENOTES NORTHROP GRUMMAN OWNED PROPERTY | ✦ | INJECTION WELL |
| ▨ | DENOTES FORMER U.S. NAVY OWNED PROPERTY | ✦ | NORTHROP GRUMMAN OR NAVY PRODUCTION WELL |
| ▨ | RECHARGE BASIN | ⊗ | ABANDONED WELL |
| ▨ | SITE AREA | | |

DESIGNATION OF HYDROGEOLOGIC ZONE FOR MONITORING WELL SCREENED INTERVALS (ARCADIS 2003)

- | | |
|---|--------------|
| ■ | SHALLOW |
| ■ | INTERMEDIATE |
| ■ | DEEP |
| ■ | DEEP2 |

NOTES:

- HYDROGEOLOGIC ZONE BASED ON MODEL LAYER ELEVATIONS PRESENTED IN COMPREHENSIVE GROUNDWATER MODEL (ARCADIS 2003).



NORTHROP GRUMMAN SYSTEMS CORPORATION
 OPERABLE UNIT 3
 (FORMER GRUMMAN SETTLING PONDS)
 BETHPAGE, NEW YORK

STUDY AREA SHOWING
 MONITORING WELL LOCATIONS



FIGURE

1

ALL COORDINATES REFERENCED TO
 NORTH AMERICAN DATUM 1983