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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

ENVIRONMENT

Subject:
March 2010 Monthly Progress Report
Northrop Grumman Systems Corporation
Operable Unit 3, NYSDEC Site ID # 1-30-003A, Bethpage, New York

Date:
April 12, 2010

Dear Steve:

Contact:
David Stern

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 March 2010. Activities planned for April 2010 are also discussed.

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OU3 Activities Conducted During March 2010

Our ref:
NY001496.0910.00007

Activities performed this period include:

On-Site and Off-Site Remedial Investigation/Feasibility Study (RI/FS)

- Submitted response to New York State Department of Environmental Conservation (NYSDEC) comments on the Site Area Focused Feasibility Study (FFS).
- Initiated revisions to the Site Area FFS Alternatives, based on Northrop Grumman's response to NYSDEC comments on the draft FFS
- Submitted the Supplement to the Study Area RI Report to the NYSDEC
- Participated in a stakeholder meeting with Bethpage Water District to discuss Study Area potential groundwater remedial alternatives

Imagine the result

- Continued preparation of Study Area FFS
- Validated analytical data associated with the sampling of Study Area Monitoring Well MW-116-5 are provided in Table 1. Well locations are shown on Figure 1.

Soil Gas IRM

- Continued full-scale Operation, Maintenance, and Monitoring (OM&M) of the Soil Gas Interim Remedial Measure (IRM)
- Performed the First Quarter 2010 OM&M site visit

Groundwater IRM

- Continued full-scale OM&M of the Groundwater IRM

Other

- Submitted February 2010 AOC Monthly Progress Report to NYSDEC

OU3 Activities Scheduled During April 2010**On-Site and Off-Site RI/FS**

- Continue revisions to Site Area FFS based on Northrop Grumman's response to NYSDEC comments
- Continue preparation of Study Area FFS

Soil Gas IRM

- Continue routine OM&M of the Soil Gas IRM

Groundwater IRM

- Continue routine OM&M of the Groundwater IRM

Other

- Submit March 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, consisting of several loops and a long horizontal stroke 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 Study Area Monitoring Well MW-116-5, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (ug/L)	Sample Location: MW-116-5 MW-116-5 MW-116-5		
	Sample Date: 12/3/2009	1/13/2010	2/8/2010
1,1,1-Trichloroethane	< 50	< 50	< 50
1,1,1,2-Tetrachloroethane	< 50	< 50	< 50
1,1,2-Trichloroethane	< 50	< 50	< 50
1,1-Dichloroethane	< 50	< 50	< 50
1,1-Dichloroethene	< 50	< 50	< 50
1,2-Dichloroethane	7.9 J	7.5	5.6 J
1,2-Dichloropropane	< 50	< 50	< 50
2-Butanone	< 500	< 500	< 500
2-Hexanone	< 500	< 500	< 500
4-methyl-2-pentanone	< 500	< 500	< 500
Acetone	< 500	< 500	< 500 B
Benzene	< 7	< 7	< 7
Bromodichloromethane	< 50	< 50	< 50
Bromoform	< 50	< 50	< 50
Bromomethane	< 50	< 50	< 50
Carbon Disulfide	< 50	< 50	3.4 J
Carbon tetrachloride	< 50	< 50	< 50
Chlorobenzene	< 50	< 50	< 50
Chlorodifluoromethane (Freon 22)	< 50	< 50	< 50
Chloroethane	< 50	< 50	< 50
Chloroform	14 J	12	9.4 J
Chloromethane	R	< 50	< 50
cis-1,2-dichloroethene	160	150	130
cis-1,3-dichloropropene	< 50	< 50	< 50
Dibromochloromethane	< 50	< 50	< 50
Dichlorodifluoromethane (Freon 12)	< 50	< 50	< 50
Ethylbenzene	< 50	< 50	< 50
Methylene Chloride	< 50	< 50	< 50
Styrene	< 50	< 50	< 50
Tetrachloroethene	< 50	< 50	< 50
Toluene	< 50	< 50	< 50
trans-1,2-dichloroethene	< 50	< 50	< 50
trans-1,3-dichloropropene	< 50	< 50	< 50
Trichloroethylene	2000 D	2000	1600
Trichlorotrifluoroethane (Freon 113)	< 50	< 50	< 50
Vinyl Chloride	< 20	< 20	< 20
Xylene-o	< 50	< 50	< 50
Xylenes - m,p	< 50	< 50	< 50
TVOC	2181.9	2169.5	1748.4

Notes and abbreviations on last page.

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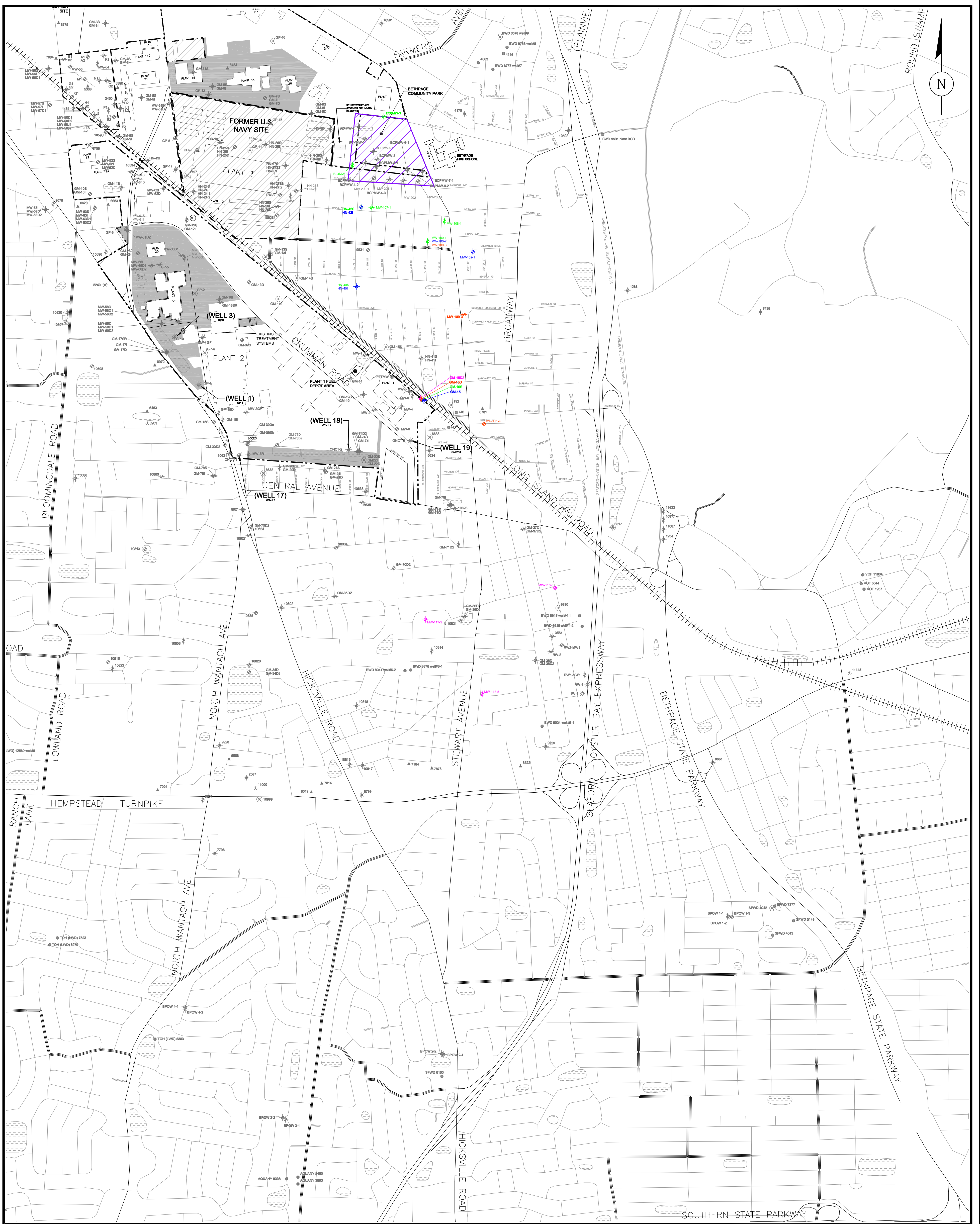
Notes and Abbreviations:

1. Results validated following protocols specified in March 2006 RI/FS Work Plan (ARCADIS G&M, Inc. 2006).
2. Samples analyzed for the TCL VOCs using NYSDEC ASP 2000 Method 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
ASP	Analytical services protocol
ug/L	Micrograms per liter
TVOC	Total volatile organic compounds
J	Value is estimated
R	Value is rejected
D	Value from a secondary dilution

XREFS: IMAGES: PROJECTNAME: NY001493.0809.00008
 offsite



EXPLANATION:

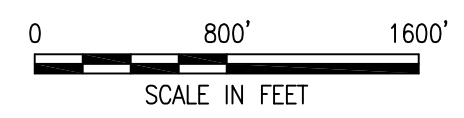
- | | | | |
|-------|--|---|--|
| ----- | PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE PROPERTY | + | OBSERVATION, MONITORING WELL |
| ----- | PROPERTY BOUNDARY OF THE FORMER U.S. NAVY PROPERTY | ▲ | INDUSTRIAL WELL |
| ----- | PROPERTY BOUNDARY OF THE FORMER OCC PROPERTY | ● | PUBLIC SUPPLY WELL |
| +++++ | 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