

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:
November 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 November 2010. Activities planned for December 2010 are also discussed.

OU3 Activities Conducted During November 2010

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

- Submitted the Draft Comprehensive OU3 Feasibility Study (FS) (Volume 1 – Site Area; Volume 2 – Study Area) to the NYSDEC

Soil Gas IRM

- Continued Operation, Maintenance, and Monitoring (OM&M) of the Soil Gas Interim Remedial Measure (IRM)
- Submitted the 3rd Quarter 2010 OM&M Report to the NYSDEC

Groundwater IRM

- Continued OM&M of the Groundwater IRM
- Submitted the 3rd Quarter 2010 OM&M Report to the NYSDEC

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ENVIRONMENT

Date:
December 10, 2010

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David Stern

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Our ref:
NY001496.0910.00007

Other

- Performed the November 2010 monthly monitoring of Monitoring Well MW116-5
- Current, 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.
- Submitted the October 2010 AOC Monthly Progress Report to the NYSDEC

OU3 Activities Scheduled December 2010

Soil Gas IRM

- Continue routine OM&M of the Soil Gas IRM
- Perform the 4th Quarter 2010 OM&M event

Groundwater IRM

- Continue routine OM&M of the Groundwater IRM
- Perform change-out of the Groundwater IRM system vapor phase granular activated carbon
- Perform the 4th Quarter 2010 monitoring event

Other

- Perform the December 2010 monitoring of Monitoring Well MW116-5
- Submit the November 2010 AOC Monthly Progress Report to the NYSDEC

Feel free to call us if you have any questions.

Sincerely,

ARCADIS of New York, Inc.



David E. Stern
Senior Scientist/Associate Project Manager

Copies:

J. Cofman, Northrop Grumman
K. Smith, Northrop Grumman
E. Hannon, Northrop Grumman
C. Henry, EMAGIN
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 MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Location ID: MW-116-5
 Sample Date: 10/22/2010

Constituent Name (units in ug/L)

1,1,1-Trichloroethane	< 100
1,1,2,2-Tetrachloroethane	< 100
1,1,2-Trichloroethane	< 100
1,1-Dichloroethane	< 100
1,1-Dichloroethene	< 100
1,2-Dichloroethane	12 J
1,2-Dichloropropane	< 100
2-Butanone	<1000
2-Hexanone	<1000
4-methyl-2-pentanone	<1000
Acetone	<1000
Benzene	< 14
Bromodichloromethane	< 100
Bromoform	< 100
Bromomethane	< 100
Carbon Disulfide	< 100
Carbon Tetrachloride	< 100
Chlorobenzene	< 100
Chlorodifluoromethane (Freon 22)	< 100
Chloroethane	< 100
Chloroform	18 J
Chloromethane	< 100
cis-1,2-dichloroethene	170
cis-1,3-dichloropropene	< 100
Dibromochloromethane	< 100
Dichlorodifluoromethane (Freon 12)	< 100
Ethylbenzene	< 100
Methyl tert-Butyl Ether	< 100
Methylene Chloride	< 100
Styrene	< 100
Tetrachloroethene	< 100
Toluene	< 100
trans-1,2-dichloroethene	< 100
trans-1,3-dichloropropene	< 100
Trichloroethylene	2100
Trichlorofluoromethane (CFC-11)	< 100
Trichlorotrifluoroethane (Freon 113)	< 100
Vinyl Chloride	< 40
Xylene-o	< 100
Xylenes - m,p	< 100

TVOCs 2300

Notes and Abbreviations on last page.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Notes and Abbreviations:

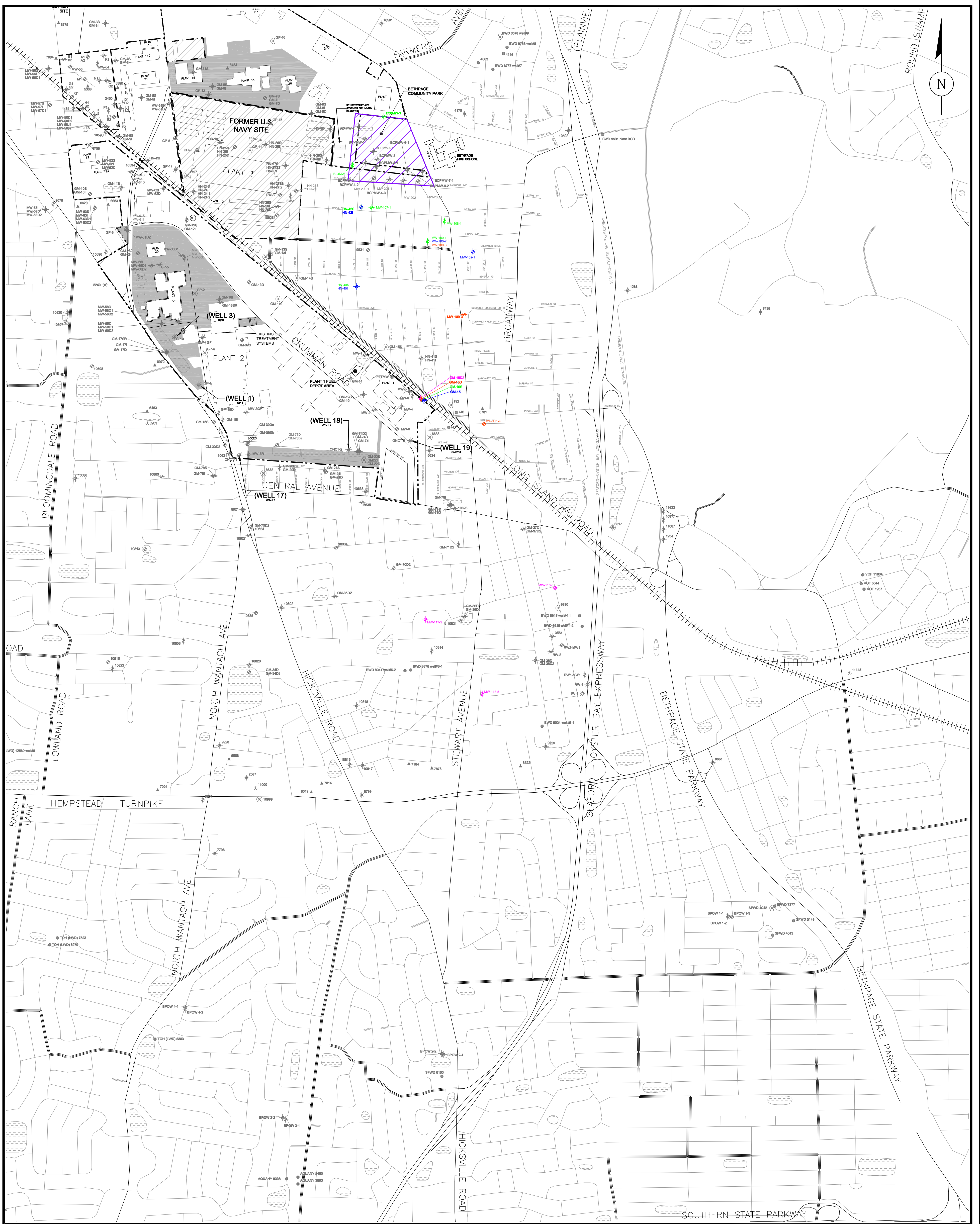
Results validated following protocols specified in March 2006 RI/FS Work Plan (ARCADIS G&M, Inc. 2006).

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
 offsite



EXPLANATION:

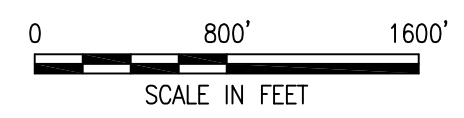
- | | | | |
|-------|--|---|--|
| ----- | PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE PROPERTY | + | OBSERVATION, MONITORING WELL |
| ----- | PROPERTY BOUNDARY OF THE FORMER U.S. NAVY PROPERTY | ▲ | INDUSTRIAL WELL |
| ----- | PROPERTY BOUNDARY OF THE FORMER OCC PROPERTY | ● | PUBLIC SUPPLY WELL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