



Infrastructure, environment, buildings

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Mr. Steven Scharf, P.E.
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

ENVIRONMENT

Subject:
Second Quarter 2005 Groundwater Monitoring Data, Outpost Wells, Northrop
Grumman Corporation and Naval Weapons Industrial Reserve Plant Sites, Bethpage,
New York.
(NYSDEC Site #s 1-30-003A and B)

Date:
5 October 2005

Dear Mr. Scharf:

Contact:
David E. Stern

Pursuant to the July 2003 Public Water Supply Contingency Plan (PWSCP)
(ARCADIS G&M, Inc. 2003), ARCADIS is providing the NYSDEC with the
validated results of groundwater monitoring performed for the Outpost Wells in the
Second Quarter 2005. Table 1 summarizes the analytical results of monitoring for
site-related volatile organic compounds (VOCs), as outlined in the PWSCP, for this
period.

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From June 14 through June 17, 2005, samples were collected from the nine Outpost
Wells using the sampling methodology outlined in the PWSCP. Based on the trigger
values for site-related TVOC concentrations established in the PWSCP, there are no
new exceedences of trigger values. Wells in Clusters 1 and 2 continue to exhibit site-
related TVOC concentrations above their respective trigger values, which were
initially detected in samples collected during the First and Second Quarters of 2004.

Our ref:
NY001348.0405.00004

Please contact us if you have any questions or comments.

Sincerely,

ARCADIS G&M, Inc.

David E. Stern
Senior Scientist

Carlo San Giovanni
Project Manager

Enclosures

Part of a bigger picture

ARCADIS

Steven Scharf, P.E.
5 October 2005

Copies:

Water Parrish - New York State Department of Environmental Conservation
John Cofman - Northrop Grumman Corporation
Larry Leskovjan - Northrop Grumman Corporation
James Colter - U.S. Navy Northern Division
John Lovejoy - Nassau County Department of Health
Trevor Wescott - New York State Department of Health
Frank Flood - Massapequa Water District
Matt Snyder - New York Water Service
Anthony J. Sabino - Town of Oyster Bay
William Bier - South Farmingdale Water District
David Brayack - TetraTech NUS, Inc.
Arnold Palleschi - Town of Hempstead Water District
Kevin Lumpe - Steel Equities
Lois Lovisolo - Bethpage Public Library (Public Repository)
Andrew Musgrave - Bethpage Water District

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Table 1. Concentrations of Site-Related Volatile Organic Compounds Detected in Outpost Wells, Second Quarter 2005, Northrop Grumman Corporation, Bethpage, New York.⁽¹⁾

CONSTITUENT (Units in ug/L)	SITE:	OW 1-1	OW 1-2	OW 1-3	OW 2-1 ⁽⁵⁾	OW 2-2	OW 3-1	OW 3-2 ⁽⁶⁾	OW 4-1	OW 4-2
	SAMPLE ID:	BPOW 1-1	BPOW 1-2	BPOW 1-3	BPOW 2-1	BPOW 2-2	BPOW 3-1	BPOW 3-2	BPOW 4-1	BPOW 4-2
	DATE:	6/14/2005	6/14/2005	6/14/2005	6/15/2005	6/15/2005	6/16/2005	6/16/2005	6/17/2005	6/17/2005
Chlorobenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene		1.1	<0.5	0.64	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane		1.1	<0.5	0.69	2	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform		<0.5	<0.5	<0.5	0.53	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane		<0.5	<0.5	<0.5	3.3	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane		2.4	<0.5	1.6	0.81	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene		0.78	<0.5	<0.5	2.4	0.55	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene		<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
Freon-113		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Site-Related VOCs⁽¹⁾:		5.38⁽³⁾	0	2.93⁽³⁾	10.24⁽⁴⁾	0.55	0	0	0	0
TVOC Trigger Value⁽²⁾:		0.6	0.6	0.6	1.5	1.5	1.5	1.5	1.5	1.5

(1) Site-related VOCs were established in the Public Water Supply Contingency Plan (PWSCP) (ARCADIS G&M, Inc. 2003).

(2) TVOC Trigger Values were established in the PWSCP (ARCADIS G&M, Inc. 2003).

(3) The TVOC Trigger Value for Cluster 1 was initially exceeded on April 23, 2004; confirmatory sampling and reporting was conducted as per the PWSCP (ARCADIS G&M, Inc. 2003).

(4) The TVOC Trigger Value for Cluster 2 was initially exceeded on May 3, 2004; confirmatory sampling and reporting was conducted as per the PWSCP (ARCADIS G&M, Inc. 2003).

(5) Benzene and Methyl tert-butyl ether (MTBE), which are not site-related VOCs, were detected in Outpost Well OW 2-1 on 6/15/05 at 180 ug/L and 17 ug/L, respectively.

(6) 1,2,3-Dichlorobeneze, which is not a site-related VOC, was detected in Outpost Well OW 3-2 on 6/16/2005 at 2.8 ug/L.

ug/L Micrograms per liter

Bold Constituent detected