N96095.AR.000791
NWIRP CALVERTON
5090.3a

REBRUARY 2011 WATER RESULTS FOR OFF SITE GROUNDWATER TESTING WITH TRANSMITTAL NWIRP CALVERTON NY
4/19/2011
TETRA TECH NUS

TETRA TECH

NOR-001053

April 19, 2011

Mr. John Hall
Peconic River Sportsman's Club
389 River Road
Manorville, New York 11949-1405

Subject: FEBRUARY 2011 WATER RESULTS, OFF-SITE GROUNDWATER, SOUTHERN AREA, NWIRP CALVERTON, NEW YORK

Encl: (1) February 2011 Water Results, Off-site Groundwater, Southern Area, NWIRP Calverton

Dear Mr. Hall:

On behalf of the Navy, please find enclosed results of water testing conducted at your property on February 16, 2011. These samples were collected in support of a groundwater investigation that the Navy is conducting on the property north and east of your club. A copy of these results is being forwarded to Suffolk County Department of Health Services.

Sample locations and descriptions are as follows.

CA-PRSC-01	Main Lodge, kitchen sink.
CA-PRSC-02-01	Activity Center, prior to carbon units.
CA-PRSC-02-02	Activity Center, between carbon units.
CA-PRSC-02-03	Activity Center, after carbon units, from sink in main area.
CA-PRSC-03	Private Residence, outside spigot, front of residence.
CA-PRSC-04	Fire Suppression well

Because the well at the Pistol Range Trailer (CA-PRSC-05) remains inactive, a water sample was not collected at this location. The Sportsman Club has indicated that this well has not been in operation since quarterly water sampling began by the Navy in January 2008.

Consistent with previous test results, volatile organic compounds (VOCs) were not detected in water samples CA-PRSC-01, CA-PRSC-02-02, CA-PRSC-02-03, CA-PRSC-03 and CA-PRSC-04 during the February sampling event and VOC concentrations have been below drinking water standards at these locations since January 2008. The results of the analytical testing have been included in the attached tables. A concentration of 10 micrograms per liter (µg/L) of 1,1-dichloroethane was detected in the untreated water sample collected at the Activity Center (CA-PRSC-02-01). CA-PRSC-02-01 is the only sample indicating VOCs above the drinking water standard of 5 µg/L. The concentration of 1,1-dichloroethane in CA-PRSC-02-01 has been consistent throughout the quarterly sampling at this location since January 2008.

Based on the sample results for CA-PRSC-02-02 (between carbon units) and CA-PRSC-02-03 (after treatment), the granular activated carbon (GAC) change out conducted by the Navy in April

Tetra Tech NUS, Inc.
5700 Lake Wright Drive, Suite 309, Norfolk, VA 23502
Tel 757.461.3768 Fax 757.461.4148 www.ttnus.com

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2010 for the treatment system is effective in reducing the concentration of VOCs detected at the Activity Center.

Another round of water sampling at your facility was collected on April 13, 2011. If you have any questions, please contact Lora Fly at (757) 341-2012.

Sincerely,

Dave Brayack
Project Manager

Cc

Andrew Rapiejko (SCDHS)
Lora Fly (NAVFAC)
Project File (CTO-WE08)
Admin Record

Tetra Tech NUS, Inc.
5700 Lake Wright Drive, Suite 309, Norfolk, VA 23502
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TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(PECONIC RIVER SPORTSMANS CLUB)
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	CA-PRSC-01 (Jan-08)	CA-PRSC-01 (Jun-08)	CA-PRSC-01 (Aug-08)	CA-PRSC-01 (Dec-08)	CA-PRSC-01 (Mar-09)	CA-PRSC-01 (Jun-09)	CA-PRSC-01 (Sept-09)	CA-PRSC-01 (Nov-09)	CA-PRSC-01 (Feb-10)	CA-PRSC-01 (Apr-10)	CA-PRSC-01 (Jul-10)	CA-PRSC-01 (Nov-10)	CA-PRSC-01 (Feb-11)
Volatile Organic Compounds (µg/L)																
1,1-Dichloroethane	75-34-3		5													
1,1-Dichloroethene	75-35-4	7	5													
1,2-Dichloroethane	107-06-2	5	5													
Chloromethane	74-87-3		5													
cis-1,2-Dichloroethene	156-59-2		5													
Isopropylbenzene	98-82-8		5													
Methyl tert-butyl ether	1634-04-4		50													
Trichloroethene	79-01-6	5	5													
Vinyl Chloride	75-01-4	2	2													
Benzene	71-43-2	5	5													
Napthalene	91-20-3		50						3.4 J							
Toluene	108-88-3	1,000	5													
1,2,4-Trichlorobenzene	120-82-1		5													

NOTES:
µg/L = micrograms per liter
CAS = Chemical Abstracts Service
MCL = Maximum contaminant level
NYSDOH = New York State Department of Health
J = Estimated Value
Blank cells = No criteria or not detected
Bolded values are detections above criteria

[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

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Volatile Organic Compounds (µg/L)																				
1,1-Dichloroethane	75-34-3		5	**12**	**12**	**7**	**13**	**12**	**12**	**12**	**12**	**12**	**11**	**9.3**	**12**	**9.9**	**11**	**11**	**11**	**10**
1,1-Dichloroethene	75-35-4	7	5		5 J	4	4	5	5	3.3 J	3.6 J	3.5 J	**6**	4.4 J	**5.4**	3.4 J	3.5 J	3.9 J	3.9 J	3.9
1,2-Dichloroethane	107-06-2	5	5	0.5 J	0.6 J	0.6 J		0.4 J	0.4 J							0.42 J				
Chloromethane	74-87-3		5																	
cis-1,2-Dichloroethene	156-59-2		5	2 J	1 J	2	1 J	1	1		1.3 J	1.3 J		1.4 J	1.2 J	1.2 J	1.3 J	1.2 J	1.2 J	1.1
Isopropylbenzene	98-82-8		5																	
Methyl tert-butyl ether	1634-04-4		50																	
Trichloroethene	79-01-6	5	5	0.8 J	0.8 J	0.7 J	0.6 J	0.9 J	0.9 J							0.64 J	0.75 J			0.7 J
Vinyl Chloride	75-01-4	2	2			1 J														
Benzene	71-43-2	5	5					0.3 J	0.3 J											
Napthalene	91-20-3		50											2.4 J						
Toluene	108-88-3	1,000	5												1.2 J					
1,2,4-Trichlorobenzene	120-82-1		5														0.53 J			

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(PECONIC RIVER SPORTSMANS CLUB)
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	CA-PRSC-02-02 (Jan-08)	CA-PRSC-02-02 (Jun-08)	CA-PRSC-02-02 (Aug-08)	CA-PRSC-02-02 (Dec-08)	CA-PRSC-02-02 (Mar-09)	CA-PRSC-02-02 (Jun-09)	CA-PRSC-02-02 (Sept-09)	CA-PRSC-02-02 (Nov-09)	CA-PRSC-02-02 (Feb-10)	CA-PRSC-02-02 (Apr-10)	CA-PRSC-02-02 (Jul-10)	CA-PRSC-02-02 (Nov-10)	CA-PRSC-02-02 (Feb-11)
Volatile Organic Compounds (µg/L)																
1,1-Dichloroethane	75-34-3		5				0.4 J		1.1 J	1.2 J		2.1 J	2.4 J			
1,1-Dichloroethene	75-35-4	7	5													
1,2-Dichloroethane	107-06-2	5	5			0.8 J										
Chloromethane	74-87-3		5													
cis-1,2-Dichloroethene	156-59-2		5													
Isopropylbenzene	98-82-8		5	2 J		1	0.6 J						0.47 J			
Methyl tert-butyl ether	1634-04-4		50													
Trichloroethene	79-01-6	5	5													
Vinyl Chloride	75-01-4	2	2													
Benzene	71-43-2	5	5													
Napthalene	91-20-3		50													
Toluene	108-88-3	1,000	5													
1,2,4-Trichlorobenzene	120-82-1		5													

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Volatile Organic Compounds (µg/L)																	
1,1-Dichloroethane	75-34-3		5														
1,1-Dichloroethene	75-35-4	7	5														
1,2-Dichloroethane	107-06-2	5	5														
Chloromethane	74-87-3		5	0.8 J													
cis-1,2-Dichloroethene	156-59-2		5														
Isopropylbenzene	98-82-8		5			0.4 J	1								0.32 J		
Methyl tert-butyl ether	1634-04-4		50	0.7 J													
Trichloroethene	79-01-6	5	5														
Vinyl Chloride	75-01-4	2	2														
Benzene	71-43-2	5	5														
Napthalene	91-20-3		50														
Toluene	108-88-3	1,000	5														
1,2,4-Trichlorobenzene	120-82-1		5														

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Volatile Organic Compounds (µg/L)																							
1,1-Dichloroethane	75-34-3		5																				
1,1-Dichloroethene	75-35-4	7	5																				
1,2-Dichloroethane	107-06-2	5	5																				
Chloromethane	74-87-3		5																				
cis-1,2-Dichloroethene	156-59-2		5																				
Isopropylbenzene	98-82-8		5																				
Methyl tert-butyl ether	1634-04-4		50																				
Trichloroethene	79-01-6	5	5																				
Vinyl Chloride	75-01-4	2	2																				
Benzene	71-43-2	5	5																				
Napthalene	91-20-3		50																				
Toluene	108-88-3	1,000	5																				
1,2,4-Trichlorobenzene	120-82-1		5																				

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Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	CA-PRSC-04 (Jan-08)	CA-PRSC-04 (Jun-08)	CA-PRSC-04 (Aug-08)	CA-PRSC-04 (Dec-08)	CA-PRSC-04 (Mar-09)	CA-PRSC-04 (Jun-09)	CA-PRSC-04 (Sept-09)	CA-PRSC-04 (Nov-09)	CA-PRSC-04 (Feb-10)	CA-PRSC-04 (Apr-10)	CA-PRSC-04 (Jul-10)	CA-PRSC-04 (Nov-10)	CA-PRSC-04 (Feb-11)
Volatile Organic Compounds (µg/L)																
1,1-Dichloroethane	75-34-3		5													
1,1-Dichloroethene	75-35-4	7	5													
1,2-Dichloroethane	107-06-2	5	5													
Chloromethane	74-87-3		5													
cis-1,2-Dichloroethene	156-59-2		5													
Isopropylbenzene	98-82-8		5													
Methyl tert-butyl ether	1634-04-4		50													
Trichloroethene	79-01-6	5	5													
Vinyl Chloride	75-01-4	2	2													
Benzene	71-43-2	5	5													
Napthalene	91-20-3		50													
Toluene	108-88-3	1,000	5													
1,2,4-Trichlorobenzene	120-82-1		5													

NOTES:

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Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **D. BRAYACK** **DATE:** **APRIL 11, 2011**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO WE08
SAMPLE DELIVERY GROUP (SDG) C1330

SAMPLES: 8/Aqueous/VOC

CA-PRSC-01-20110216	CA-PRSC-02-01-20110216
CA-PRSC-02-02-20110216	CA-PRSC-02-03-20110216
CA-PRSC-03-20110216	CA-PRSC-04-20110216
CA-PRSC-DUP01	CA-PRSC-TB01-20110216

Overview

The sample set for NWIRP Calverton, CTO WE08, SDG C1330 consists of seven (7) environmental aqueous samples and a trip blank. The samples were analyzed for select volatile organic compounds (VOC). The field duplicate pair within this SDG is CA-PRSC-03-20110216 and CA-PRSC-DUP01.

The samples were collected by Tetra Tech on February 16, 2011 and analyzed by Chemtech. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

- Data completeness
- * Holding times
- Initial/continuing calibrations
- * Laboratory Method Blank Results
- * Surrogate Recoveries
- * Matrix Spike / Matrix Spike Duplicate Recoveries
- * Laboratory Control Sample Recoveries
- * Internal Standard Recoveries
- * Compound Quantitation
- * Compound Identification
- * Field Duplicate Precision
- * Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

In the continuing calibration on February 21, 2011 @ 17:03 on instrument MSVOAG, acetone, dichlorodifluoromethane and vinyl chloride had percent differences (%Ds) greater than 20% but less than 90%.The nondetected acetone, dichlorodifluoromethane and vinyl chloride results in the affected samples were qualified as estimated (UJ).

TO: D. Brayack
FROM: A. Cognetti
DATE: April 11, 2011
SDG: C1330
PAGE: 2

Additional Comments

The percent recovery (%R) of surrogate 4-bromofluorobenzene was greater than the upper quality control limit in sample CA-PRSC-01-20110216. No action was taken on the nondetected results in sample CA-PRSC-01-20110216.

Nondetected results were reported to the limit of detection (LOD).

LOD in the database is equal to the method detection limit. No action was taken.

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: The continuing calibration percent differences were greater than the quality control limit for acetone, dichlorodifluoromethane and vinyl chloride.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (August 2008) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).

The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

Tetra Tech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 02045	NSAMPLE	CA-PRSC-01-20110216			CA-PRSC-02-01-20110216			CA-PRSC-02-02-20110216			CA-PRSC-02-03-20110216		
SDG: C1330	LAB_ID	C1330-06			C1330-03			C1330-04			C1330-05		
FRACTION: OV	SAMP_DATE	2/16/2011			2/16/2011			2/16/2011			2/16/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
1,1-DICHLOROETHANE	0.5	U		10			0.5	U		0.5	U	
1,1-DICHLOROETHENE	0.5	U		3.9			0.5	U		0.5	U	
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
2-BUTANONE	2.5	U		2.5	U		2.5	U		2.5	U	
ACETONE	2.5	UJ	C	2.5	UJ	C	2.5	UJ	C	2.5	UJ	C
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U	
CIS-1,2-DICHLOROETHENE	0.5	U		1.1			0.5	U		0.5	U	
DICHLORODIFLUOROMETHANE	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C
ETHYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U	
M+P-XYLENES	1	U		1	U		1	U		1	U	
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U	
O-XYLENE	0.5	U		0.5	U		0.5	U		0.5	U	
TETRACHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TOLUENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRICHLOROETHENE	0.5	U		0.7	J	P	0.5	U		0.5	U	
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
VINYL CHLORIDE	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C

PROJ_NO: 02045	NSAMPLE	CA-PRSC-03-20110216			CA-PRSC-04-20110216			CA-PRSC-DUP-01			CA-PRSC-TB01-20110216		
SDG: C1330	LAB_ID	C1330-09			C1330-02			C1330-10			C1330-01		
FRACTION: OV	SAMP_DATE	2/16/2011			2/16/2011			2/16/2011			2/16/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF							CA-PRSC-03-20110216					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
1,1-DICHLOROETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
1,1-DICHLOROETHENE		0.5	U		0.5	U		0.5	U		0.5	U	
1,2-DICHLOROETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
2-BUTANONE		2.5	U		2.5	U		2.5	U		2.5	U	
ACETONE		2.5	UJ	C	2.5	UJ	C	2.5	UJ	C	2.5	UJ	C
BENZENE		0.5	U		0.5	U		0.5	U		0.5	U	
CIS-1,2-DICHLOROETHENE		0.5	U		0.5	U		0.5	U		0.5	U	
DICHLORODIFLUOROMETHANE		0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C
ETHYLBENZENE		0.5	U		0.5	U		0.5	U		0.5	U	
M+P-XYLENES		1	U		1	U		1	U		1	U	
METHYLENE CHLORIDE		0.5	U		0.5	U		0.5	U		0.5	U	
O-XYLENE		0.5	U		0.5	U		0.5	U		0.5	U	
TETRACHLOROETHENE		0.5	U		0.5	U		0.5	U		0.5	U	
TOLUENE		0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,2-DICHLOROETHENE		0.5	U		0.5	U		0.5	U		0.5	U	
TRICHLOROETHENE		0.5	U		0.5	U		0.5	U		0.5	U	
TRICHLOROFLUOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
VINYL CHLORIDE		0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C