

8 March 2006 RAC II-2006-047

Ms. Sharon Trocher
Work Assignment Manager
U.S. Environmental Protection Agency
290 Broadway, 20th Floor
New York, NY 10007-1866

SUBJECT:

USEPA RAC II CONTRACT NUMBER 68-W-98-214 WORK ASSIGNMENT NUMBER 109-RALR-0238 VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1 JANUARY 2006 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the January 2006 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

A. Monthly Operations

The treatment system at the Vestal Water Supply Well operated for the entire month of January with the exception of two brief periods (less than 24 hours), to repair a broken blower belt and restart the high service pump. A summary of the operation and maintenance activities performed during January is as follows:

- · Routine inspections of the facility were performed;
- · Pumps were checked and lubricated;
- · Air filters were cleaned or replaced;
- · Removed snow and de-iced sidewalk; and
- The monthly influent and effluent samples were collected.



B. Operational Data

The following table presents operational data for the year 2006, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)
January	31	*	*	*
Volume of groundwat	*			
Volume of groundwat	2684.8*			

^{*}The float control valve is not closing completely, preventing the flow meter from operating correctly. A replacement is being sought.

gpm - gallons per minute mg - millions of gallons

C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of January 2006 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Influent Concentration (ug/L)								Effluent Concentrati					
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	on (ug/L) January
Vinyl Chloride	2	0.5U												0.5 U
Chloroethane		0.5U												0.5 U
1,1-Dichloroethene*	5	3.2												0.7
1,1,2 Trichloro- 1,2,2-Trifluoroethane		1.2												0.5 U
Acetone		1.0U												1.0 U
Methylene Chloride		0.5U												0.5 U
Trans 1,2-Dichloroethene*	5	0.5 U												0.5 U
Methyl Tert-Butyl Ether		1.0												1.1
1,1-Dichloroethane	5	6.1												3.2
Cis-1,2-Dichloroethene*	5	14												7.4
Chloroform	7	0.5 U												0.5 U
1,1,1-Trichloroethane*	5	42												12
Trichloroethene*	5	15L												6.2
Total Volatile Organics*	100	82.5					·							30.6

Note:

ug/L = micrograms per liter
* = Site Contaminant of Concern

U = Below Reporting Limit NS = Not Sampled L = Reported Value May be Biased Low

D. Next Month's Activities

The following activities are planned for February 2006:

- Repair flow meter valve; and
- · Perform monthly performance monitoring sampling.

E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

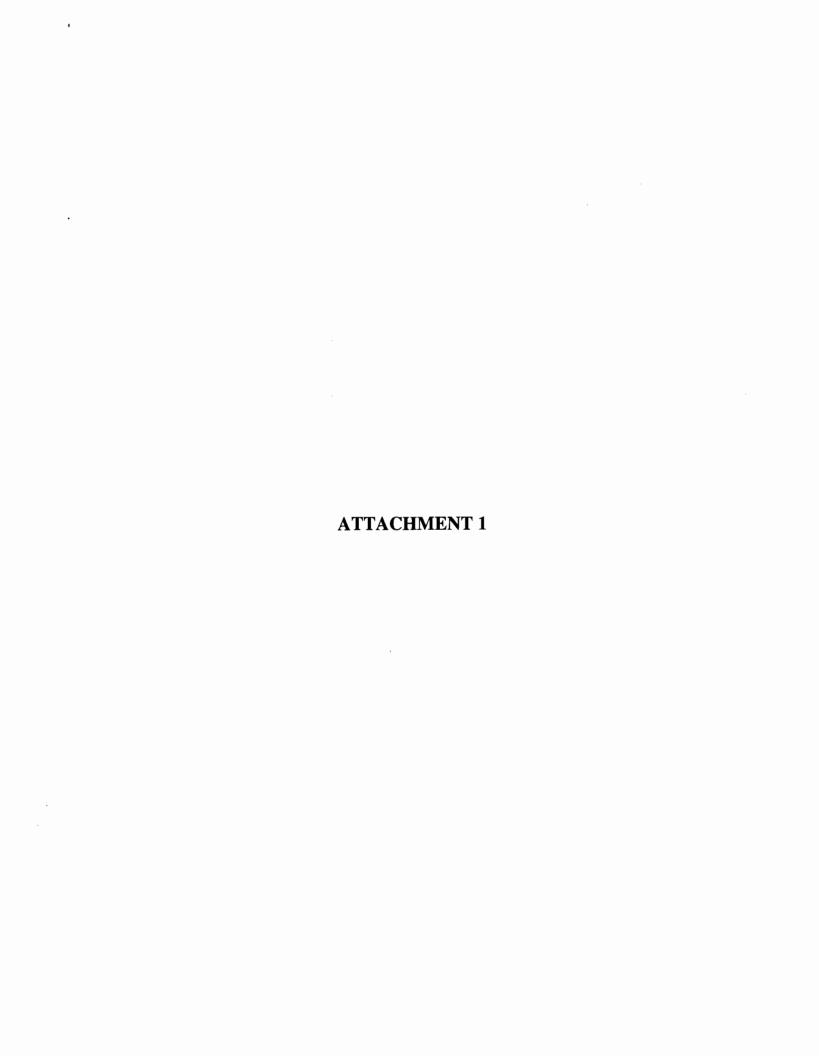
Sincerely,

Heidemarie Roldan Project Manager

Attachment

cc: P. Long (NYSDEC)

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<u>Case Narrative:</u> Vestal 1-1. #06010001

The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

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None

Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The CRQL for 1,2-Dibromo-3-chloropropane in water is 0.5 ug/L (OLC03.2). The Laboratory's Reporting Limit was raised to 1 ug/L due to problems associated with the initial calibration curve.

Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method)



U.S. Environmental Protection Agency Region 2 Laboratory 2890 Woodbridge Avenue Edison, NJ 08837

Data Report: Vestal Well 1-1 [01/06]

Project Number: 06010001

Program: Y206E

Project Leader: L. Arabia

Remark Codes	Explanation
U	THE ANALYTE, WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
· R	THE PRESENCE OR ABSENCE OF THE ANALYTE CANNOT BE DETERMINED FROM THE DATA DUE TO SEVERE QUALITY CONTROL PROBLEMS. THE DATA ARE REJECTED AND CONSIDERED UNUSABLE.
К	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED

Report Date: 2/17/2006 3:38PM

Project Number: 06010001

*Sorted By Sample ID

AG09855

Field/Station ID: INFLUENT

Date Received: 1/3/2006

Matrix: Aqueous

Sample Description:

CAS Number	Analyte Name	Result	Remark_ <u>Codes</u>	<u>Units</u>
75-43-4	DICHLORODIFLUOROMETHANE	Account	- 0.50U	wg/L
000074873	CHLOROMETHANE		0.50U	ug/L
000075014	VINYL CHLORIDE		0.50U	ug/L
000074839	BROMOMETHANE		0.50U	ug/L
000071033	CHLOROETHANE		0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE	in de la companya de La companya de la companya de	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	**2		ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1.2		ug/L
000075150	CARBON DISULFIDE	Maria de la companya	0.50U	ug/L
000073130	ACETONE		1.0U	ug/L
79-20-9	METHYL ACETATE	144	0.50U	ug/L
000075092	METHYLENE CHLORIDE	A Alexander	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE		0.50U	ug/L ug/L
001634044	METHYL TERT-BUTYL ETHER	1.0	in Visco	ug/L
000075343	1.1-DICHLOROETHANE	2.1		ug/L
000156592	CIS-1,2-DICHLOROETHENE	14	redamines subsec e	ug/L
594-20-7	2,2-DICHLOROPROPANE		0.50U	ug/L
000078933	2-BUTANONE	en e	1.0U	ug/L
000074975	BROMOCHLOROMETHANE		0.50U	ug/L ug/L
000067663	CHLOROFORM		0,50U	ug/L
71-55-6	1.1,1-TRICHLOROETHANE	42	0,500	ug/L
110-82-7	CYCLOHEXANE	All Control	0.50U	ug/L
000056235	CARBON TETRACHLORIDE	Magazia de la composição de la composição La composição de la composição d	0.500	ug/L
000563586	1,1-DICHLOROPROPENE		0.50U	ug/L
000071432	BENZENE - COMPANY CONTRACTOR CONT		# 0.500	water to
000107062	1,2-DICHLOROETHANE	ides 7	0.50U	ug/L
025323891	TRICHLOROBTHENE	18	L	ug L
108-87-2	METHYLCYCLOHEXANE	1 · · · · · · · · · · · · · · · · · · ·	0.50U	ug/L
000078875	1,2-DICHLOROPROPANE	A STATE OF THE STA	0.50U	"vig/L
000074953	DIBROMOMETHANE		0.50U	ug/L
000075274	BROMODICHLOROMETHANE		0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE		0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	in the second		ug/L
000108883	TOLUENE		0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE		0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE		0.50U	ug/L
000127184	TETRACHLOROETHENE		0.50U	ug/L
000127184	1,3-DICHLOROPROPANE	Arcolors and A	0.50U	ug/L
000142289	DIBROMOCHLOROMETHANE		0.50U	ug/L
000124481	1,2-DIBROMOETHANE		0.5 0 U	UNITED COMMENT SPECIAL TO THE TAXABLE TO THE TAXABL
000591786	2-HEXANONE		1.00	ug/L
10023F100			1.00	tig/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/17/2006 3:38PM

Project Number: 06010001

*Sorted By Sample ID

AG09855

Field/Station ID: INFLUENT

Date Received: 1/3/2006

Matrix: Aqueous

Sample Description:

A	nalysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark	
	CAS Number	Analyte Name	Result	Codes	Units
1 27.3	000630206	1,1,1,2-TETRACHLOROETHANE		0.50U	ug/L
	100-41-4	ETHYLBENZENE		0.50U	ug/L
	001330207	M/P-XYLENE		* 0.50U	- W/E
	000095476	O-XYLENE		0.50U	ug/L
在北京城市等区	000100425	STYRENE ***********************************	774 HB	0.50U	" ug/L
VON . , 75	000075252	BROMOFORM		0.50U	ug/L
7万分的	000098828	ISOPROPYLBENZENE	#1946- <u></u>	0.50U	ug/L
	000108861	BROMOBENZENE		0.50U	ug/L
	000096184	1,2,3-TRICHLOROPROPANE		0.5QU	. ug/L
	000079345	1,1,2,2-TETRACHLOROETHANE		0.50U	ug/L
	000103651	N-PROPYLBENZENE	- M	0.50U	ug/L
	000095498	2-CHLOROTOLUENE		0.50U	ug/L
	106-43-4	4-CHLOROTOLUENE		0.50U .	192 / L
	000108678	1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
	000098066	TERT-BUTYLBENZENE		0.500	ug/L
	000095636	1,2,4-TRIMETHYLBENZENE		0.50U	ug/L
	135-98-8	SEC-BUTYLBENZENE	<i></i>	0.50U	ug/E
	000541731	1,3-DICHLOROBENZENE	-	0.5 0U	ug/L
	000106467	1,4-DICHLOROBENZENE		· 0.50U	o ug/E
12 1% 8 1 2	000095501	1,2-DICHLOROBENZENE		0.50U	ug/L
4.104.14	000099876	4-ISOPROPYL TOELIENE.			119/1
	000104518	N-BUTYLBENZENE		0.50U	ug/L
	000096128	L2-DIBROMG-3-CHLOROPROPANE	ero a	1.00	'ug/L
	000120821	1,2,4-TRICHLOROBENZENE		0.50U	ug/L
1 - 18 LAN - 45 AT 1	87-68-3	HEXACHEOROBUTADIENE	e data da la sala e	* 0.50U	***ng/E
1 1,000 , 1,54 500	000091203	NAPHTHALENE		. 0.50U	ug/L
	000087616	1,2,3-TRICHLOROBENZENB	Auto L	0.50U	ug/L
•	1330-20-7	TOTAL XYLENES	Blitania 1	0,50U	ug/L

AG09856

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 1/3/2006

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/17/2006 3:38PM Page 3 of 5

Project Number: 06010001

*Sorted By Sample ID

AG09856

11.835.75

Field/Station ID: EFFLUENT

Date Received: 1/3/2006

Matrix: Aqueous

Sample Description:

Analysis T	pe: VOA GCMS LOW LEVEL DRINKING WATER		Remark	
CAS Nu	mber Analyte Name	Result	Codes	Units
75-43-4	The state of the s	<u>rcoun</u>	0.50U	ug/L
000074	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	e erritation experience remotively deligible and a second	0.50U	ug/L
000074	2 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		0.500	and the second particular and the second particular and the second secon
000073			0.50U	ug/L ug/L
000074			0.50U	ug/L
000075	 TOTAL STATE AND ADMINISTRATION OF STATE AND A		0.50U	SART MEL MANAGEMENT AND ASSESSMENT AS TO A TOTAL OF THE SAST AS TOTAL OF
000075		0.70	0.300	ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	. 0.70	0. 50 U	ug/L
000075			0.50U	ug/L
000073	A COLOR OF THE PROPERTY OF THE		1.0U	ug/L
79-20-9	METHYL ACETATE		0.50U	ug/L
000075		Soft Middle Land County in the East	0.50U	ug/L
0000756			0.50U	ug/L ug/L
000136	,	1.1	MOVE	的情况其他的情况的证明,这一个人的
001034		3.2	en mendera er bege	ug/L
000073		7.4	dentification and a	ug/L
594-20-		T. 2008 C. S.	0.50U	ug/L
0000789			1.0U	ug/L
0000749			0.50U	ug/L
0000676	19.10.10.11.11.11.11.11.11.11.11.11.11.11.	and the second s	0.50U	THE REPORT OF THE PARTY OF THE
71-55-6			0.300	ug/L
110-82-		e i king orden in	0.50U	的数据的 1000 000 000 000 000 000 000 000 000 0
0000562	A words of the second s		0.500	ug/L ug/L
0005635		Arte dollares (Salaria	0.50U	ug/L
0000014			0.50U	ug/L
000071			0.50U	ug/L
0253238	· · · · · · · · · · · · · · · · · · ·	6.2	4,4	ug/L
108-87-2		And the same and the same and the same and	0.50U	ug/L
0000788			0.50U	ug/L
0000749		THE TAXABLE SALES	0.50U	ug/L
0000752			0.50U	ug/L
0100610			0.50U	ug/L
0001081			1.00	ug/L
0001081			0.50U	ug/L
0100610			0.50U	ng/L
0000790			0.50U	ug/L
0001271	The state of the s	Andrews Santa S	0.50U	ig/L
0001271	· · · · · · · · · · · · · · · · · · ·		0.50U	ug/L ug/L
0001422	1,3-DICHLOROF ROPAINE		0.500	ug/ L

Refer to Page I for an explanation of Remark Codes

Report Date: 2/17/2006 3:38PM Page 4 of 5

Project Number: 06010001

*Sorted By Sample ID

AG09856

Field/Station ID: EFFLUENT

Date Received: 1/3/2006

Matrix: Aqueous

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number Analyte Name	Result	<u>Codes</u>	<u>Units</u>
000124481 DIBROMOCHLOROMETHANE	-	Q.50U	ug/L
000106934 1,2-DIBROMOETHANE	o nikati kisa sa ta Tanan da k	0.50U	ug/L
000591786 2-HEXANONE		1.00	ug/L
000108907 CHLOROBENZENE		0.50U	ug/L
000630206 1;1,1,2-TETRACHLOROETHANE		0.50U · ·	'ng/L'
100-41-4 ETHYLBENZENE		0.50U	ug/L
001330207 M/P-XYLENE	erite (Maria de Le rit de la c	• 0.50U	· rig/L
000095476 O-XYLENE		0.50U	ug/L
. 000100425 STYRENE	the part -	0.50U	ug/L
000075252 BROMOFORM	waster Ti llas	0.50U	ug/L
000098828 ISOPROPYLBENZENE		. 0.50U	ug/L
000108861 BROMOBENZENE	-	0.50 U	ug/L
000096184 1,2,3,TRICHLOROPROPANE	Marin Services	. 0.50U	ug/L
000079345 1,1,2,2-TETRACHLOROETHANE	li i Miribilei d oe Ji. N	0.50U	ug/L
000103651 N-PROPYLBENZENE		0.50U	'ug/L'
000095498 2-CHLOROTOLUENE	-4-	0.50U	ug/L
106-43-4 4-CHLOROTOLUENE		0.50U	ug/L
000108678 1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
000098066 TERT-BUTYLBENZENE		···· 0.50U+ · . ·	tig/E:
000095636 1,2,4-TRIMETHYLBENZENE	And the same the	. 0.5QU	ug/L
135-98-8 SEC-BUTYLBENZENE 3	ala marka 💳 🗀 🔻	0.50U	ug/L
000541731 1,3-DICHLOROBENZENE		0.50U	ug/L
000106467 1,4-DICHLOROBENZENE		** 0.50U****	· Top/E
000095501 1,2-DICHLOROBENZENE		0.50U	ug/L
000099876 4JSOPROPYLTOLUENE		* 0.5 0 0	r v tig/L
000104518 N-BUTYLBENZENE		0.50U	ug/L
000096128 1,2-DIBROMO-3-CHLOROPROPANE		/1.00	ug/L
000120821 1,2,4-TRICHLOROBENZENE		0.50U	ug/L
87-68-3 HEXACHLOROBUTADIENE	aliacae dalar Filipas Los	0.500	s, ve/L
000091203 NAPHTHALENE		0.50U	ug/L
000087616 1,2,3-TRICHLOROBENZENE		0.500	tig/L
1330-20-7 TOTAL XYLENES		0.50U	ug/L

Date: 2/21/06 Project Approval:

Refer to Page 1 for an explanation of Remark Codes $\, \mathcal{O} \,$

Report Date: 2/17/2006 3:38PM