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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 MAY 2006 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the May 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 May. A summary of the operation and maintenance activities performed during May is as follows:

- Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- Raked and mowed the grass at the facility; 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	45	517.5	23.1
February	28	45	517.5	20.9
March	31	45	517.5	23.1
April	30	45	517.5	22.4
May	31	38	437	19.5
Volume of groundwa	109			
Volume of groundwater treated for the OU-1				2,883.9

gpm - gallons per minute mg - millions of gallon



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 May 2006 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge	Discharge Influent Concentration (ug/L)								Effluent Concentration				
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) May
Vinyl Chloride	2	0.5U	3.8	3.8	4.2	4.0								0.5 U
Chloroethane		0.5U	0.61	0.56	0.58	0.57								0.5 U
1,1-Dichloroethene*	5	3.2	11	10.0	11	10								0.5U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		1.2	4.3	3.9	3.9	3.8								0.5 U
Acetone		1.0U	1.0U	5.0U	1.0U	1.0U								1.3
Methylene Chloride		0.5U	0.5U	0.5U	0.5U	0.5U								0.5 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5U	0.5U	0.5U	0.5U								0.5 U
Methyl Tert-Butyl Ether		1.0	3.7	3.7	3.9	4.2								2.2
1,1-Dichloroethane	5	6.1	30	18	18	19								2.0
Cis-1,2-Dichloroethene*	5	14	45	45	46	48								6.3
Chloroform	7	0.5 U	0.5U	0.5U	0.5U	0.5U					,			0.5 U
1,1,1-Trichloroethane*	5	42	150	130	140	150								6.3
Trichloroethene*	5	15L	42	40	42	43								3.0
Total Volatile Organics*	100	82.5	280.41	254.96	269.58	282.57								21.2

Note:

ug/L = micrograms per liter * = Site Contaminant of Concern U = Below Reporting Limit

D. Next Month's Activities

The following activities are planned for June 2006:

• 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,

Jemane Roldan

Heidemarie Roldan Project Manager

Attachment cc: P. Long (NYSDEC)

ATTACHMENT 1

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Case Narrative: Vestal 1-1. #06050015

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.

Comment(s):

None

<u>Reporting Limit(s):</u>

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

Volatile Organic Compounds: The CRQL for Bromomethane is 0.5 ug/L. Due to problems associated with the initial calibration curve, the reporting limit was raised to 1.0 ug/L.

Method(s):

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

Approval: J. R. Inc. Date: 6/23/06



U.S. Environmental Protection Agency Region 2 Laboratory 2890 Woodbridge Avenue Edison, NJ 08837 Data Report: Vestal Well 1-1 [05/06] Projest Number: 06050015 Program: Y206E

Project Leader: L. Arabia

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

Report Date: 6/21/2006 3:57PM

Page 1 of 5



Survey Name: Vestal Well 1-1 [05/06]

Project Number: 06050015

*Sorted By Sample ID

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Field/Station ID: INFLUENT AH02123

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Matrix: Aqueous

Date Received: 5/5/2006

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark	
CAS Number	Analyte Name	Result	<u>Codes</u>	<u>Units</u>
75-43-4	DICHEORODIFLUOROMBTHANE		0.500	ug/L
000074873	CHLOROMETHANE		0.50U	ug/L
000075014	VINYL CHLORIDE	4.0		ug/L
00 0074839	BROMOMETHANE	Carrier and the second	1.0U J	ug/L
000075003	CHLOROETHANE	0.57	1.6	ug/L
000075694	TRICHLOROFLUOROMETHANE		0.50U	ug/L
000075354	1.1-DICHLOROFTHENE	10		ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3.8		ug/L
000075150	CAREON DISTUDIE		0.50U	ug/L
000067641	ACETONE	· · · ·	1.0U	ug/L
79-20-9 🔬 👘	METHYLXCHIATERACIAN		0.50U	ug/Las
000075092	METHYLENE CHLORIDE		0.50U	ug/L
000156605	TRANS-1,2-DICHLOROBTHENE		0.50L	ta ug/L =
001634044	METHYL TERT-BUTYL ETHER	4.2		ug/L
000075343	I,I-DICHLOROETHANE -	19		ug/L
000156592	CIS-1,2-DICHLOROETHENE	. 48		ug/L '
594-20-7	2,2-DICHLOROPROPANE	Contraction of the second	0.50U	ug/L
000078933	2-BUTANONE		1. 0 U	ug/L
000074975	BROMOLEHEOROMATES NR		a souther	a ught
000067663	CHLOROFORM	2° 646.4	0.50U	ug/L
71-55-6	III. TRICHLOROFTHARE	160 States		- 0 <u>9</u> /L-2
110-82-7	CYCLOHEXANE		0.50U	ug/L
000056235.	CARBON TETRACHLORIDE		0.500	ug/L
000563586	1,1-DICHLOROPROPENE		0.50U	ug/L
000071432		CARB ANT CAR	0.500	µg/L
. 000107062	1,2-DICHLOROETHANE		0.50U	ug/L
025323891		1911 - 1914 - 1919 -		ug/L
108-87-2	METHYLCYCLOHEXANE		0.50U	ug/L
000078875	NL24DICHLOROPRADASE			ug/L
000074953	DIBROMOMETHANE		0.50U	ug/L
000075274 010061015	BROMODINELOROMETHANS		0.500 3	ug/L
a construction of the second	CIS-1,3-DICHLOROPROPENE		0.50U	ug/L
000108101 000108883	4-METHYL-2-PENI/ANONE			ug/L
	TOLUENE TRANS-1.3-DICHLOROPROPENE		0.50U	ug/L
010061026	1,1,2-TRICHLOROETHANE	der Gescher Friderich	0.500	ug/L
000079005	TETRACHLOROETHANE		0.50U	ug/L
000127184			0.50U	ug/L
000142289	1,3-DICHLOROPROPANE		0.50U	ug/L
000124481	DIBROMOCHEOROMHTEIANE		0.500	ug/L
000106934 000591786	1,2-DIBROMOETHANE		. 0.50U	ug/L
かい いいしい ひゃかい 分泌 したこう 読む 読み ないたい	2-HEXANONE		1.00	ug/L
000108907	CHLOROBENZENE	an an an an Arabi ann, an A rabian An Arabian an Arabian an Arabian an Arabian Arabian	0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes Report Date: 6/21/2006 3:57PM



Survey Mame: Vestal Well 1-1 [05/06]

Date Received: 5/5/2006

Project Number: 06050015

*Sorted By Sample ID

Field/Station ID: INFLUENT AH02123

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Matrix: Aqueous

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	<u>Result</u>	Codes	Units
000630206	CHAMPORTETRA CHIZOR CHETTE AND SECOND BUT REASON		200 - UK(I))	ug/L
100-41-4	ETHYLBENZENE		0.50U	ug/L
001330207	MEXALBINE	1997 (Sec. 1997)	0.500	ug/L
000095476	O-XYLENE	د در میشوند. اور میشوند در میشوند میشوند میشوند میشوند	0.50U	ug/L
000100425	STYRENE	Same and the second second	0.50U	ug/L
000075252	BROMOFORM		0.50U	ug/L
000098828	SOPROPYLBENZENE		0.50U	ug/L
000108861	BROMOBENZENE		0.50U	ug/L
000096184	AL23-TRICHLOROPRO AND		00500	ugfL
000079345	1,1,2,2-TETRACHLORGETHANE	· · ·	0.50U	ug/L
000103651	N-PROPYLEBENZENE		0.500	ug/L
000095498	2-CHLOROTOLUENE		0.50U	ug/L
106-43-4	4-CHLOROTOLUENE		0.500	ug/L
000108678	1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
000098066+	TERT-BUTYLBENZENE	Sec. 12 Sec. 12	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE		0.50U	ug/L
135-98-8	SEC-BUTYERENZENE	A second s	0.50U	ugA.
000541731	1,3-DICHLOROBENZENE		0.50U	ug/L
000106467	14 DIGELOROBENZE E COMPANY AND A COMPANY			ug/L
000095501	1,2-DICHLOROBENZENE		0.50U	ug/L
000099876 000104518	4-ISOPROPYLITOLUENA N-BUTYLBENZENE		0.500	ug/L
000104518	N-BOTTLBENZENE	 	0.50U	ug/L
000090148	1,2,4+TRICHLOROBENZENE		0.50U 0.50U	t ^e ug/L i
87-68-3	HEXACHLOROBUTADIENE		0.300 5 0.50U	ug/L vg/L
000091203	NAPHTHALENE		0.50U	ug/L
000091205	1243ETRICHLOROBENAENE			
1330-20-7	TOTAL XYLENES		0.50U	ug/L
1550-20-7	ETHANE ZEDICELOROPAZITERI AND AND AND		0.500	ug/L
and a start of the second			Contraction (M. S. C. Contraction)	H. H. Harrison

Field/Station ID: EFFLUENT AH02124

Matrix: Aqueous

Sample Description:

Date Received: 5/5/2006



Survey Name: Vestal Well 1-1 [05/06]

Project Number: 06050015

*Sorted By Sample ID

Field/Station ID: EFFLUENT AH02124

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Matrix: Aqueous

Date Received: 5/5/2006

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATE	ER	Re	mark	
CAS Number	Analyte Name	Resi	-		nits
75-43-4	DICHLORODIFLUOROMETHANE				/L
000074873	CHEOROKALINANISTANA		A CONTRACTOR OF		h Bisur 4
000075014	VINYL CHLORIDE			50U ug	
000074839	* BROMOMETER NEW TRANSPORT		e		have .
000075003	CHLOROETHANE			50U ug	CARLES - CARLEND AND AND AND AND AND AND AND AND AND A
000075694	TRICHLOROFLUOROMETHANE		South the second second second		Д.
000075354	1,1-DICHLOROETHENE		- 0.	50U ug	10.00 (10.00 / MAX) - 10.00 (10.00
76-13-1	1.1.2-TRICHLORO-1.22-TRIFLUORO	TEANE -	Companyant of the second second	50U	
000075150	CARBON DISULFIDE		- 0.	50U ug/	/L
0000676414	ACETONE			ug/	
79-20-9	METHYL ACETATE	- Anno and a sugar a second -	- 0,	50U ug/	۸L
000075092	METHMLERICHEORIDE			iold by	1
000156605	TRANS-1,2-DICHLOROETHENE		- 0.5	10U ug/	ſL
	METHYDEROEBUTCHERAS			ug/	L
000075343	1,1-DICHLOROETHANE	2.	k za stali se	ug/	/L
000156592	CIS-1,2-DI(CHEO)(C):::::::::::::::::::::::::::::::::::			ug/	Le :
594-20-7	2,2-DICHLOROPROPANE	<u></u>	State of the second second second	0U ug/	
000078933	2-BUTANONE		a cromosol.)U, the ug/	L
000074975	BROMOCHLOROMETHANE	suffer a strategy and set of the set	0.5	,	
000067663	1945 - Alexandra Marka Shallar a Carl Marka 1979 - Karaba Sana a Sana		XON CONTRACT	al a survey and a survey of the survey of th	
71-55-6	1,1,1-TRICHLOROETHANE			ug/	
	NOT COMPANY AND A COMPANY A		11. 11.		
000056235	CARBON TETRACHLORIDE	— — — — — — — — — — — — — — — — — — —	0.5		
000563586	a server of some way was a first of a state way way way way was a server as a server way of a server way was b		0.5	State of the second	L.
000071432	BENZENE	·····	0.5	and the state of the	
000107062	12-DICHLOROETHANE		WE THAT'S DAY SHOWS SUCCESS	QU ug/	an a
025323891	TRICHLOROETHENE	3.(and the second	ug/l	
000078875	METHYLCYCIOHIXANI 1,2-DICHLOROPROPANE			OUS TO Ug/	Constant and the second second second
000078873	DIBROMOMINTER	the contained at the second	0.5		and the second
000075274	BROMODICHLOROMETHANE			Sector Sector Sector Sector Sector	
010061015	CIS-IN-DICHLOROPROPEND IS THE		0.5	Se 2014 9. 2015 1. 10. 10. 10. 1	and a second
000108101	4-METHYL-2-PENTANONE		1.0		
000108883	TOLUENE		0.5		
010061026	TRANS-1,3-DICHLOROPROPENE		0.5		
010001028	1,1,2-TRICHLOROPTHANE			· · · · · · · · · · · · · · · · · · ·	
000127184	TETRACHLOROETHENE		0.5	te and the second s	 South and a second s
000142289				· · · · · · · · · · · · · · · · · · ·	
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# Survey Wame: Vestal Well 1-1 [05/06]

Date Received: 5/5/2006

Project Number: 06050015

*Sorted By Sample ID

#### Field/Station ID: EFFLUENT AH02124

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Matrix: Aqueous

Sample Description:

# Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	Units
000124481	DIBROMOCHLOROMETHANE		0.50U	ug/L
000106934	1.2-DIBROMOETHANE		0.501	ug/L
000591786	2-HEXANONE		1.0U	ug/L
000108907.	CHLOROBENZIENE			Den Ben
000630206	1,1,1,2-TETRACHLOROETHANE		0.50U	ug/L
100-41-4	OF ETHYLEBERZENE CONTRACTOR OF THE		0.300	ug/L
001330207	M/P-XYLENE		0.50U	ug/L
000095476	O-XYLENE CONTRACTOR		0.50U	ug/L
000100425	STYRENE		0.50U	ug/L
000075252	BROMOFORM		0.50U	ug/L
000098828	ISOPROPYLBENZENE	с 	0.50U	ug/L
000108861	BROMOBENZENE		0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE		0.50U	ug/L
000079345	eihi 22-TETRACTICORGETRANE EN STATIS	그는 말 아이는 것 같은 것 같	(1) 5(1)	ug/L
000103651	N-PROPYLBENZENE		0.50U	ug/L
000095498	7/2-GERORG TO ALENIE		0.50U	ug/L
10 <b>6-43-4</b>	4-CHLOROTOLUENE		0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
000098066	TERT-BUTYLBENZENE		0.50U	ug/L
000095636 135-98-8	12.4-TRIMETHYLBENZENE SEC-BUTYLBENZENE	Cherry Carolina and	0.50U	l∆ ug/L
000541731	SEC-BUTTLDENZENE		0.50U	ug/L
000106467	1,4-DICHLOROBENZENE		0.50U	ug/L
000095501	Plasoferrokorevzene			ug/L ug/L: 4
000099876	4-ISOPROPYLTOLUENE		0.50U	ug/L
000104518 2	N.BUTYLEENZENE		0.500	ug/L
000096128	1.2-DIBROMO-3-CHLOROPROPANE		0.50U	ug/L
000120821	1.2.4-TRICHLOROBENZENE		0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE		0.50U	ug/L
000091203	NAPHTHALENE		0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE		0.50U	ug/L
1330-20-7	TOUALXYLENES		Carl March March 1995 - 1995	ug/L
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**Project Approval:** dK

Date: 6/23/06

Refer to Page 1 for an explanation of Remark Codes Report Date: 6/21/2006 3:57PM