



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 JULY 2006 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the July 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 July until the system was shut down to replace the air stripper media on 24 July. The system remained shut down for the rest of the month of July. A summary of the operation and maintenance activities performed during July is as follows:

- Replacement of the air stripper media began;
- 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
June	26	32	368	13.8
July	24	38	437	15.1
Volume of groundwat	137.9			
Volume of groundwat	er treated for the O	U-I		2,912.8

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 July 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	Influent Concentration (ug/L)						Effluent Concentration						
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) July
Vinyl Chloride	2	0.5U	3.8	3.8	4.2	4.0	3.3	4.8						0.5 U
Chloroethane		0.5U	0.61	0.56	0.58	0.57	0.53	0.54						0.5 U
1,1-Dichloroethene*	5	3.2	11	10.0	11	10	9.1	11						0.5U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		1.2	4.3	3.9	3.9	3.8	3.4	3.7						0.5 U
Acetone		1.0U	1.0U	5.0U	1.0U	1.0U	1.0U	1.0U						1.0 U
Methylene Chloride		0.5U	0.5U	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	0.5U	0.5U						0.5 U
Methyl Tert-Butyl Ether		1.0	3.7	3.7	3.9	4.2	4.0	5.1						2.8
1,1-Dichloroethane	5	6.1	30	18	18	19	18	19						2.5
Cis-1,2-Dichloroethene*	5	14	45	45	46	48	43	30						4.9
Chloroform	7	0.5 U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U						0.5 U
1,1,1-Trichloroethane*	5	42	150	130	140	150	120	120						6.8
Trichloroethene*	5	15L	42	40	42	43	38	41						3.8
Total Volatile Organics*	100	82.5	280.41	254.96	269.58	282.57	239.33	235.14						20.8

Note:

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

U = Be_vow Reporting Limit

D. Next Month's Activities

The following activities are planned for August 2006:

- Finish replacing the air stripper packing material and perform related repairs to the air stripper tower; and
- Perform monthly performance monitoring sampling.

E. Summary and Recommendations

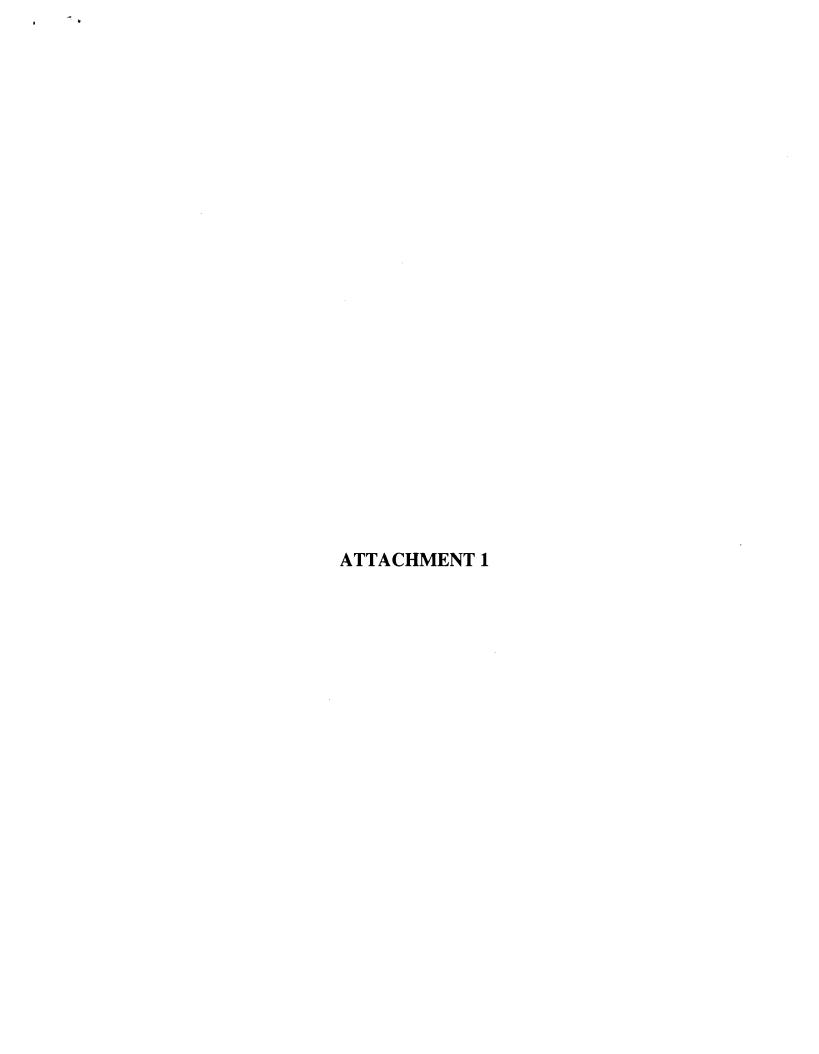
Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,

Heidemarie Roldan Project Manager

Attachment

cc: P. Long (NYSDEC)



Case Narrative: Vestal 1-1. #06070007

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), where applicable, for each analyte requested.

Method(s):

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

Approval: <u>J. R. A.</u> Date: <u>8-9-06</u>



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

Data Repor:: Vestal Well 1-1 [07/06]

Project Number: 06070007

F₁rogram: 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 ANALYTH 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 (S ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
1.	THE IDENTIFICATION OF THE ANALYTE S 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

Page 1 of 5

Report Date: 7/31/2006 8:01AM

Survey Name: Vestal Well 1-1 [07/06]

Project Number: 06070007

*Sorted By Sample ID

AH03230

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 7/7/2006

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_		
CAS Number	Analyte Name Res	<u>ult</u>	Codes	<u>Units</u>	
75-43-4	DICHLORODIFEUOROMETHANE		0.500	ug/L	P
000074873	CHLOROMETHANE -		0.50U	ug/L	4
000075014	VINYL CHLORIDE	8.0		ug/L	4
000074839	BROMOMETHANE -		0.50U	ug/L	93
000075003	CHLOROETHANE 10	543		ug/L	1
000075694	TRICHLOROFLUOROMETHANE -		0.50U	ug/L	965
000075354	1.1-DICHLOROETHENE	Paratri de de		ug/L/Y	概核
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	.7		ug/L	9
000075150	CARBON DISULFIDE	28 11 1	0.50U * * §	ug/L	er T
000067641	ACETONE -	-	1.0U	ug/L	
79 -2 0 - 9	METHYL ACETATE	-1 ()))	0.50U 3	ng/L	Ċ.
000075092	METHYLENE CHLORIDE		0.50U	ug/L	42.
000156605	TRANS-1,2-DICHLOROETHENE	451.7	0.504	ug/L	
001634044	METHYL TERT-BUTYL ETHER 5.	1		ug/L	
000075343	1,1-DICHLOROETHANE	912 1 12	Military se	ug/L	
000156592	CIS-1,2-DICHLOROETHENE 3	0		ug/L	
594-20-7	2,2-DICHLOROPROPANE =		0.50U	ug/L	
000078933	2-BUTANONE	· (*) ()	1.0U	ug/L	
000074975	BROMOCHLOROMETHANE		0.50U	ug/L	,
000067663	CHLOROFORM		0.50U	ug/L	
71-55-6	1,1,1-TRICHLOROETHANE	0.7	katik Li	ug/L/i	,
110-82-7	CYCLOHEXANE		0.50U	ug/L	
000056235	CARBON TETRACHLORIDE		0.500	ug/L	
000563586	1,1-DICHLOROPROPENE	Lander of the second consistence of the seco	0.50U	ug/L	
000071432	BENZENE	位的基础。在在17年来是有194	0.500	ug/L	
000107062	1,2-DICHLOROETHANE	- Trondstand old Bark Control (1997)	0.50U	ug/L	
025323891	TRICHLOROETHENE 4	10111	adit de 1 %	ug/L	
108-87-2	METHYLCYCLOHEXANE	and the second of the second	0.50U	ug/L	:
000078875	1,2-DICHLOROPROPANE	The Name of Street, St	0.50U	pg/L	
000074953	DIBROMOMETHANE		0.50U	ug/L	i.
000075 274 010061015	BROMODICHLOROMETHANE		AN INCOMESTICATION OF BUILDINGS OF CORP.	bg/L	2
	CIS-1,3-DICHLOROPROPENE		0.50U	ug/L	ā
000108101 000108883	4-METHYL-2-PENTANONE			ug/L	ì
010061026	TOLUENE TRANS 1.3 DICHI OPORDODENIE			ug/L ug/L	
000079005	TRANS-1,3-DICHLOROPROPENE 1,1,2-TRICHLOROETHANE		form rude came algreen decem shows 1	States and American States and	
	And the second s			ug/L	
000127184 000142289	TETRACHLOROETHENE 1,3-DICHLOROPROPANE	Park Mark Carry Mark	in the same of	ug/L	!
000142289	DIBROMOCHLOROMETHANE			ug/L	
	· · · · · · · · · · · · · · · · · · ·	Market States of Market States (Million)	Red . Now in a partie of the Same - American	ug/L	
000106934	1,2-DIBROMOETHANE		and a communication of the state of the stat	ug/L	
000591786	2-HEXANONE ———————————————————————————————————	。四条大学 为1000年的	THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SE	ng/L	
000108907	CHLOROBENZENE		0.500	ug/L	

Refer to Page 1 for an explanation of Remark Codes

Report Date: 7/31/2006 8:01AM Page 2 of 5

Survey Mame: Vestal Well 1-1 [07/06]

Project Number: 06070007

*Sorted By Sample ID

AH03230

Field/Station ID: INFLUENT

Date Received: 7/7/2006

Matrix: Aqueous

Sample Description:

CAS Number	OA GCMS LOW LEVEL DRINKING WATER Analyte Name	Result	Remark_ <u>Codes</u>	Units
000630206	1,1,1,2-TETRACHLORGETHANE		(1)\$(0]0	ug/L
100-41-4	ETHYLBENZENE		0.50U	ug/L
001330207	M/P-XYLENE		0.500	ug/L
000095476	O-XYLENE	4.4	0.50U	ug/L
000100425	STYRENE	177	0.50U	ug/L
000075252	BROMOFORM		0.50U	ug/L
000098828	ISOPROPYLBENZENE		0.50U	j pg/L
000108861	BROMOBENZENE		0.50U	ug/L
000096184	1.2.3-TRICHLOROPROFANE		0.50U	g ng/L
000079345	1,1,2,2-TETRACHLOROETHANE		0.50U	ug/L
000103651	N-PROPYLBENZENE	1.4" :	0.500	ug/L
000095498	2-CHLOROTOLUENE		0.50U	ug/L
106-43-4	4-CHLOROTOLUENE	1949 (* * 0.50U	a ug/L
000108678	1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
000098066	TERT-BUTYLBENZENE		# 0.50U	ng/L
000095636	1,2,4-TRIMETHYLBENZENE	The state of the s	0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE		. 0.5 0U	ug/L
000541731	1,3-DICHLOROBENZENE		0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	Mind Lexibide	30.50U	i ug/L
000095501	1,2-DICHLOROBENZENE	teller val tiger	0.50U	ug/L
00009 9876	4-ISOPROPYLTOLUEN		(0.500)	ug/L
000104518	N-BUTYLBENZENE		0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROP/INE		0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	a Line in the appropriate value	0.50U	ug/L
87-68-3	HEXACHLOROBUTAD ENE		- 7 0.50U	ug/L
000091203	NAPHTHALENE	in control that the second control of the se	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	313一支之	0.50U	ug/L
1330-20-7	TOTAL XYLENES		0.50U	ug/L
	ETHANE, 1,2-DICHLORD-1,1,2-TRIP: RT=4.83	TO LUE AS A	NI I	ug/L

AH03231

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 7/7/2006

Refer to Page 1 for an explanation of Remark Codes

Report Date: 7/31/2006 8:01AM Page 3 of 5

Survey Name: Vestal Well 1-1 [07/06]

Project Number: 06070007

*Sorted By Sample ID

AH03231

Field/Station ID: EFFLUENT

Date Received: 7/7/2006

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
75-43-4	DICHLORODIFLUOROMETHANE		0.50U	ug/L
000074873	CHLOROMETHANE		0.500	ug/LS
000075014	VINYL CHLORIDE		0.50U	ug/L
000073817	BROMOMETHANE		i singa	n be/L
000074833	CHLOROETHANE		0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE		*:0.500	ug/L
000075354	1,1-DICHLOROETHENE		0.50U	ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		₫ 0.50U	ng/L
000075150	CARBON DISULFIDE		0.50U	ug/L
000073130	ACETONE		2 1.0U	ug/L ug/L
79-20-9	METHYL ACETATE		0.50U	ug/L
000075092	METHYLENE CHLORIDE		0.50Us	ug/L
000156605	TRANS-1,2-DICHLOROETHENE		0.50U	ug/L
001634044	METHYL TERT-BUTYL ETHER		0.500	ug/L
001034044	1,1-DICHLOROETHANE	2.5		ug/L
000075545	CIS-1,2-DICHLOROETHENE	2:5		ug/L ug/L
594-20-7	2,2-DICHLOROPROPANE		0.50U	ug/L
000078933	2-BUTANONE	建筑	2.1.0U 1	ug/L
000074975	BROMOCHLOROMETHANE		0.50U	ug/L
000074973	CHLOROFORM		0.50U	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	6.8		ug/L
110-82-7	CYCLOHEXANE		0.500000	ng/L
000056235	CARBON TETRACHLORIDE		0.50U	ug/L
000563586	1,1-DICHLOROPROPENE		0.50U	ug/L
000303380	BENZENE		0.50U	ug/L
000071432	1,2-DICHLOROETHANE		80 SOU	ug/L
025323891	TRICHLOROETHENE	3.8		ug/L
108-87-2	METHYLCYCLOHEXANE			↓ ug/L
000078875	1,2-DICHLOROPROPANE		0.50U	ug/L
000074953	DIBROMOMETHANE	44	0.50U	ug/L
000075274	BROMODICHLOROMETHANE		0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE		0.500	ng.L
000108101	4-METHYL-2-PENTANONE		1.0U	ug/L
000108101	TOLUENE		0.500	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE		0.50 U	ug/L
000079005	1,1,2-TRICHLOROETHANE		0.50U	ug/L ug/L
000127184	TETRACHLOROETHENE		0.50U	ug/L
000127184	1,3-DICHLOROPROPANE			ug/L
000172203	1,5-Dioithound not min		F3.5% AF A W	2 20 - 3 3 3 4 4 5 5 4 4 5 5 4 5 4 5 4 5 4 5 5 4 5 6 5 6

Refer to Page 1 for an explanation of Remark Codes

Report Date: 7/31/2006 8:01AM Page 4 of 5

Survey Name: Vestal Well 1-1 [07/06]

Project Number: 06070007

*Sorted By Sample ID

AH03231

Field/Station ID: EFFLUENT

Date Received: 7/7/2006

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		D 1.	
		D acult	Remark_ Codes	Limita
CAS Number	Analyte Name	Result		<u>Units</u>
000124481	DIBROMOCHLOROMETHANE		0.50U	ug/L
000106934	1,2-DIBROMOETHANE		0.50U + 1	ng/L
000591786	2-HEXANONE		1.0U	ug/L
000108907	CHLOROBENZENE (1)		03000	ug/L
00063020 6	1,1,1,2-TETRACHLOROETHANE		0.50U	ug/L
100-41-4	ETHYLBENZENE 1		(0)2510)8	rig/L
001330207	M/P-XYLENE	and the second second second second second second	0.50U	ug/L
00009547 6	O-XYLENE		0.50U	ug/L
000100425	STYRENE		0.50U	ug/L
0000752 52	BROMOFORM		0.50U	ug/L
000098828	ISOPROPYLBENZENE	,	0.50U	ug/L
000108861	BROMOBENZENE		● 0.50U	gg/L
000096184	1,2,3-TRICHLOROPROFANE		0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE		0,500	ug/L
000103651	N-PROPYLBENZENE		0.50U	ug/L
000095498	2-CHLOROTOLUENE		0.50U	r ug/L
106-43-4	4-CHLOROTOLUENE		0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	1 2-41 2 11	0.50U 🗼 🛊	ug/L
000098066	TERT-BUTYLBENZENE		0.5 0U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE		0.50U (-	ug/L
135-98-8	SEC-BUTYLBENZENE		0.50U	ug/L
000541731	1,3-DICHLOROBENZENE		0.500	vg/L
000106467	1,4-DICHLOROBENZENE		0.50U	ug/L
000095501	1,2-DICHLOROBENZENE		0.500	ug/L
000099876	4-ISOPROPYLTOLUENE		0,50U	ug/L
000104518	N-BUTYLBENZENE		0.50U	ug/L 🗓 🔻
000096128	1,2-DIBROMO-3-CHLOROPROPANE		0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENB		0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE		0. 50 U	ug/L
000091203	NAPHTHALENE	<u> </u>	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	and a state of the	0.50U	ug/L
1330-20-7	TOTAL XYLENES	3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.50U	ug/L

Project Approval:	IR. Ihren		Date:	8-9-06	
Dafanta Dava I fan ar anda		1	_		_

Refer to Page 1 for an explanation of Remark Codes

Report Date: 7/31/2006 8:01AM