

Nag, Veena (DEP)

From: Babroudi, Ida (DEP)
Sent: Thursday, September 27, 2007 3:18 PM

To: Nag, Veena (DEP)
Subject: FW: Email confirmation from eDEP Transaction 147713

From: eDEP-Confirmation@state.ma.us [SMTP:EDEP-CONFIRMATION@STATE.MA.US]
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BWSC Remedial Monitoring Report A()
BWSC Remedial Monitoring Report A()
BWSC Remedial Monitoring Report B()
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BWSC Remedial Monitoring Report B()

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PAOLA MACCHIAROLI

Ancillary Document Uploaded/Mailed :

BWSC-108 Ques.B08 - Revised Phase III Remedial Action Plan - Uploaded (BWSC-108 Ques.B08 - Revised Phase III Remedial Action Plan.pdf)

BWSC-108 Ques.B10 - Modified Phase IV Remedy Implementation Plan - Uploaded (BWSC-108 Ques.B10 - Modified Phase IV Remedy Implementation Plan.tif)

BWSC-108 Ques.B14 - Revised Phase IV Final Inspection Report - Uploaded (BWSC-108 Ques.B14



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DEP
NORTHEAST REGIONAL OFFICE

Mr. Michael J. O'Brien
Office of Ecosystem Protection
EPA- New England Region I
One Congress Street, Suite 1100 (CPE)
Boston, MA 02114-2023

Subject: Monthly Status Report (#42)
Remediation General Permit No. MAG910000/NPDES Exclusion #
MA 03I-072
Groundwater Remediation System
Operating Period: December 30, 2006 – January 25, 2007

Dear Mr. O'Brien:

SLWA

2507	SPDES Discharge Standard		Method 1	
	MCLs	Allowable Conc.	MCP	GW-1
<5.0		100		
<2.5		100		
<1.0	2	2		2
<1.0		100		10
<2.5		100		
<0.50	7	7		7
<5.0		100		3000
<5.0		100		
<5.0		100		
<5.0	5	5		5
0.75	100	100		100
<1.0		100		70
0.75		70		
<5.0		100		4000
0.50	70	70		70
<2.5		100		
<2.5		100		
0.75	80	80		5
0.50	200	100		200
<2.5		100		
0.50	5	5		5
0.50	5	5		5
0.50	5	5		5
1.8	5	5		5
5.0		100		5
0.50	80	80		3
0.50		100		0.5
5.0		100		350
0.75	1000	100		1000
0.50		100		0.5
0.75	5	5		5
2.5		100		5
0.50	5	5		5
5.0		100		5
0.50	80	80		0.2
2.0		0.05		0.2
0.50	100	100		100
0.50		100		5
0.50	700	100		700
1.0	10000	100		10000
1.0	10000	100		10000
1.0	10000	100		10000
1.0	100	100		100
2.0	80	80		4
3.50		100		
3.50		100		
2.5		100		
5.0		100		
1.50		100		
2.5		100		
2.5		100		
2.5		100		
2.5		100		
1.50		100		
2.5		100		
2.5	75	75		40
5.0		100		5
2.5	600	100		600
2.5	0.2	0.2		
2.5	70	70		70
0.6		100		0.6
1.5		100		140
1.5		100		
		6.5-8.3		
		30		

mod 1	2	7	5	0	0	0	5	3	3	3	3	5	0	0	0	0	0	0	0
CP	0	000	00	0	00	0	00	0	0	0	0	0	0	0	0	0	0	0	0
W-1																			

Attachment A

Laboratory Reports

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

A/S INFLUENT

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 cont'd				1	8260B		0129 17:58 PD
Styrene	ND	ug/l	20.				
Dichlorodifluoromethane	ND	ug/l	100				
Acetone	ND	ug/l	100				
Carbon disulfide	ND	ug/l	100				
2-Butanone	ND	ug/l	100				
Vinyl acetate	ND	ug/l	100				
4-Methyl-2-pentanone	ND	ug/l	100				
2-Hexanone	ND	ug/l	100				
Bromochloromethane	ND	ug/l	50.				
2,2-Dichloropropane	ND	ug/l	50.				
1,2-Dibromoethane	ND	ug/l	40.				
1,3-Dichloropropane	ND	ug/l	50.				
1,1,1,2-Tetrachloroethane	ND	ug/l	10.				
Bromobenzene	ND	ug/l	50.				
n-Butylbenzene	ND	ug/l	10.				
sec-Butylbenzene	ND	ug/l	10.				
tert-Butylbenzene	ND	ug/l	50.				

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0701245-02
 GAC1-INFLUENT

Date Collected: 25-JAN-2007 11:10
 Date Received: 25-JAN-2007

Sample Matrix: WATER

Date Reported: 01-FEB-2007

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Organics by GC/MS 8260				8260B		0201 13:08 PD	
---------------------------------	--	--	--	-------	--	---------------	--

Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				

1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				

Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				

trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				

1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0701245-02
GAC1-INFLUENT

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Volatile Organics by GC/MS 8260 cont'd				1 8260B		0201 13:08 PD
Styrene	ND	ug/l	1.0			
Nickel	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
Vinyl acetate	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	0.60			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0701245-03
 GAC2-INFLUENT

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 cont'd				1 8260B		0129 19:11 PD	
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				

2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,2,5-Trichlorobenzene	ND	ug/l	2.5				

Surrogate (s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	108	%	70-130
Toluene-d8	97.0	%	70-130
4-Bromofluorobenzene	96.0	%	70-130
Dibromofluoromethane	99.0	%	70-130

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0701245-04
 TREATED EFFLUENT

Volatile Organics by GC/MS 8260 cont'd				1 8260B	0129 19:48 PD
Iodomethane	ND	ug/l	5.0		
1,2,3-Trichloropropane	ND	ug/l	5.0		
Styrene	ND	ug/l	1.0		
Dichlorodifluoromethane	ND	ug/l	5.0		
Acetone	NP	ug/l	5.0		

2-Butanone	ND	ug/l	5.0		
Vinyl acetate	ND	ug/l	5.0		
4-Methyl-2-pentanone	ND	ug/l	5.0		
2-Hexanone	ND	ug/l	5.0		
Bromochloromethane	ND	ug/l	2.5		
2,2-Dichloropropane	ND	ug/l	2.5		
1,2-Dibromoethane	ND	ug/l	2.0		
1,3-Dichloropropane	ND	ug/l	2.5		
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50		
Bromobenzene	ND	ug/l	2.5		
n-Butylbenzene	ND	ug/l	0.50		
sec-Butylbenzene	ND	ug/l	0.50		
tert-Butylbenzene	ND	ug/l	2.5		
o-Chlorotoluene	ND	ug/l	2.5		
m-Chlorotoluene	ND	ug/l	2.5		

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 8260 LCS for sample(s) 01,03-05 (WG269170-3)		
Methylene chloride	114	70-130
1,1-Dichloroethane	112	70-130
Chloroform	103	70-130
Carbon tetrachloride	84	70-130
1,2-Dichloropropane	112	70-130
Dibromochloromethane	98	70-130
1,1,2-Trichloroethane	108	70-130
Tetrachloroethene	113	70-130
Chlorobenzene	111	75-130
Trichlorofluoromethane	113	70-130
1,2-Dichloroethane	114	70-130

Bromodichloromethane	102	70-130
trans-1,3-Dichloropropene	102	70-130
cis-1,3-Dichloropropene	108	70-130
1,1-Dichloropropene	109	70-130
Bromoform	89	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Benzene	111	76-127
Toluene	111	76-125
Ethylbenzene	115	70-130
Chloromethane	90	70-130
Bromomethane	71	70-130
Vinyl chloride	98	70-130
Chloroethane	104	70-130
1,1-Dichloroethene	103	61-145
trans-1,2-Dichloroethene	102	70-130
Trichloroethene	108	71-120
1,2-Dichlorobenzene	107	70-130
1,3-Dichlorobenzene	110	70-130
1,4-Dichlorobenzene	110	70-130
Methyl tert butyl ether	108	70-130
p/m-Xylene	113	70-130
o-Xylene	116	70-130
cis-1,2-Dichloroethene	109	70-130
Dibromomethane	114	70-130
Iodomethane	108	70-130
1,2,3-Trichloropropane	108	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0701245

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 8260 LCS for sample(s) 02 (WG269170-7)		
Acetone	81	70-130
Carbon disulfide	80	70-130
2-Butanone	105	70-130
Vinyl acetate	98	70-130
4-Methyl-2-pentanone	105	70-130
2-Hexanone	107	70-130
Bromochloromethane	102	70-130
2,2-Dichloropropane	88	70-130
1,2-Dibromoethane	106	70-130
1,3-Dichloropropane	106	70-130
1,1,1,2-Tetrachloroethane	98	70-130
Bromobenzene	103	70-130
n-Butylbenzene	100	70-130
sec-Butylbenzene	101	70-130
tert-Butylbenzene	103	70-130
o-Chlorotoluene	102	70-130
p-Chlorotoluene	103	70-130
1,2-Dibromo-3-chloropropane	77	70-130
Hexachlorobutadiene	92	70-130
Isopropylbenzene	113	70-130
p-Isopropyltoluene	108	70-130
Naphthalene	99	70-130
n-Propylbenzene	103	70-130
1,2,3-Trichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	106	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	101	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	97	70-130
Dibromofluoromethane	99	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Parameter MS % MSD % RPD RPD Limit MS/MSD Limits

Methylene Chloride 78 72 8 20 70-130

Methylene chloride	78	72	8	20	70-130
1,1-Dichloroethane	91	84	8	20	70-130
Chloroform	81	76	6	20	70-130
Carbon tetrachloride	66	63	5	20	70-130
1,2-Dichloropropane	88	83	6	20	70-130
Dibromochloromethane	73	70	4	20	70-130
1,1,2-Trichloroethane	87	81	7	20	70-130
Tetrachloroethene	88	80	10	20	70-130
Chlorobenzene	87	81	7	20	75-130
Trichlorofluoromethane	93	81	14	20	70-130
1,2-Dichloroethane	94	89	5	20	70-130
1,1,1-Trichloroethane	76	72	5	20	70-130
Bromodichloromethane	77	76	1	20	70-130
trans-1,3-Dichloropropene	76	74	3	20	70-130
cis-1,3-Dichloropropene	79	77	3	20	70-130
1,1-Dichloropropene	87	78	11	20	70-130
Bromoform	66	66	0	20	70-130
1,1,2,2-Tetrachloroethane	76	74	3	20	70-130
Benzene	90	83	8	20	76-127
Toluene	87	80	8	20	76-125

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0701245

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8260 for sample(s) 01-05 (L0701245-04, WG269170-2)					
1,2-Dibromoethane	86	82	5	20	70-130
1,3-Dichloropropane	89	83	7	20	70-130
1,1,1,2-Tetrachloroethane	78	74	5	20	70-130
Bromobenzene	84	80	5	20	70-130
n-Butylbenzene	80	76	5	20	70-130
sec-Butylbenzene	83	78	6	20	70-130
tert-Butylbenzene	83	78	6	20	70-130
o-Chlorotoluene	83	77	8	20	70-130
p-Chlorotoluene	82	78	5	20	70-130
1,2-Dibromo-3-chloropropane	59	57	3	20	70-130
Hexachlorobutadiene	69	66	4	20	70-130
Tetrahydrofuran	82	80	7	20	70-130

p-Isopropyltoluene	88	82	7	20	70-130
Naphthalene	76	73	4	20	70-130
n-Propylbenzene	83	78	6	20	70-130
1,2,3-Trichlorobenzene	83	78	6	20	70-130
1,2,4-Trichlorobenzene	80	76	5	20	70-130
1,3,5-Trimethylbenzene	86	81	6	20	70-130
1,2,4-Trimethylbenzene	81	77	5	20	70-130

Surrogate(s)

Toluene-d8	99	99	0		70-130
4-Bromofluorobenzene	93	96	3		70-130
Dibromofluoromethane	100	98	2		70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0701245

PARAMETER	RESULT	UNITS	PRI	REF METHOD	DATE	ID
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PREP ANAL

Blank Analysis for sample(s) 04 (WG268856-1)

Blank Analysis for sample(s) 01,03-05 (WG269170-4)

PARAMETER	RESULT	UNITS	PRI	REF METHOD	DATE	ID
Volatile Organics by GC/MS 8260						
Methylene chloride	0.58J	ug/l		1 8260B	0129 17:22 PD	
1,1-Dichloroethane	ND	ug/l				
Chloroform	0.21J	ug/l				
Carbon tetrachloride	ND	ug/l				
1,2-Dichloropropane	ND	ug/l				
Dibromochloromethane	ND	ug/l				
1,1,2-Trichloroethane	ND	ug/l				
Tetrachloroethene	ND	ug/l				
Chlorobenzene	ND	ug/l				
Trichlorofluoromethane	ND	ug/l				
1,2-Dichloroethane	ND	ug/l				
1,1,1-Trichloroethane	ND	ug/l				
Bromodichloromethane	ND	ug/l				
trans-1,2-Dichloroethane	ND	ug/l				

cis-1,3-Dichloropropene	ND	ug/l		0.50
1,1-Dichloropropene	ND	ug/l		2.5
Bromoform	ND	ug/l		2.0
1,1,2,2-Tetrachloroethane	ND	ug/l		0.50
Benzene	ND	ug/l		0.50
Toluene	ND	ug/l		0.75

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0701245

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01,03-05 (WG269170-4)							
Volatile Organics by GC/MS 8260 cont'd				1	8260B	0129 17:22 PD	
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery						QC Criteria
1,2-Dichloroethane-d4	105	%					70-130
Toluene-d8	99.0	%					70-130
4-Bromofluorobenzene	97.0	%					70-130
Dibromofluoromethane	99.0	%					70-130
Blank Analysis for sample(s) 01 (WG269170-6)							
Volatile Organics by GC/MS 8260				1	8260B	0131 09:41 PD	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				

WEST
TEL: 5
FAX: 5
Client

Client

Address

Phone

Fax:

Email:

Other

ALP
(Lab)

121

MA

IS

PLEA

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