ENERGY*SOLUTIONS*

January 29, 2007
Ref. No. 137003-095

Mr. Eric Lardiere
Meggitt-USA, Inc.
Whittaker Corporation
1955 N. Surveyor Avenue
Simi Valley, California 93063

Subject: Annual Site Groundwater Monitoring for 2006

Dear Mr. Lardiere:

Please find the enclosed document detailing the September 2006 groundwater sampling event conducted by Energy*Solutions*, LLC at the Whittaker site located near Greenville, PA. This document should be attached as Addendum 11 to the site Groundwater Monitoring Plan (Scientech Document Number 82A9103, Revision 3).

Please complete and return the top copy of the enclosed Energy*Solutions* Document Transmittal Form to indicate receipt of your controlled copy of this report.

Should you have any questions or comments, please call me at (864) 235-3695.

Sincerely,

Lai Czyz for

Kevin E. Taylor, PE
Sr. Health Physicist
Envirocare of Utah, LLC
17 College Street
Suite D
Greenville, SC 29601
Phone: (864) 235-3695
Fax: (864) 235-8405

KET/lhc
cc: J. Kottan w/enclosure
B. Werner w/enclosure
R. Woods w/enclosure

ENERGYSOLUTIONS
143 West Street
New Milford, CT 06776
(860) 355-8194

DOCUMENT TRANSMITTAL CONTROL FORM NUMBER 64632

Date Issued: 1/30/2007
Project No.: 137003
Assigned to: Jim Kottan, Division of Nuclear Materials Safety
693 U.S. Nuclear Regulatory Commission,
475 Allendale Road
King of Prussia, PA 19406

Document No.	Rev. No.	Comments	Document Title
82A9103	03	1 Controlled Copy-Addendum 11	Groundwater Monitoring Plan for the Mercer Alloys (Whittaker) Site Remediation

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ENERGYSOLUTIONS

ADDENDUM AUTHORIZATION

29-Jan-07
Effective Date

Document Title: Groundwater Monitoring Plan
Document No.: 82A9103, Rev. 3
Addendum No.: 11
Originator: Lori Cozzz for Kevin E. Taylor
For Site/Utiliy: Whittaker Site, Greenville, PA

Description of Addendum:

Report on annual site groundwater monitoring for 2006.

CONTROLLED COPY No. 693

Reason for Change:

Results of the ANNUAL groundwater monitroing are to be submitted per Section 3 of the Groundwater Monitoring Plan.

APPROVALS:

Title	Signature	Date
Technical Reviewer	Robert E. McPeak, Jr., P.E., L.E.P.	1/29/07
Operations Manager	Lee G. Penney	1/30/07

Approvals for the Addendum shall at least be equal to the Appoval of the base document and may inlcude customer sign off.

Distribute to all Energy*Solutions* Control Copy holders of affected document and None

A copy of this authorization shall be attached to the affected document.

January 29, 2007

Subject: Whittaker Site Groundwater Monitoring Well Sampling, September 2006

INTRODUCTION

In accordance with Whittaker Corporation's U.S. Nuclear Regulatory Commission (NRC) License No. SMA-1018, Amendment No. 14, Condition No. 15, and Scientech, LLC Document No. 82A9103, Revision 3, "Groundwater Monitoring Plan, Whittaker Corporation, Greenville, PA," well sampling activities were conducted on September 20 and 21, 2006. Robert McPeak (Project Environmental Engineer) of Energy*Solutions*, LLC conducted the sampling activities with support from on-site Energy*Solutions* personnel. Well sampling procedures and analytical protocol are discussed and specified in the Groundwater Monitoring Plan. The water sampling event also complies with the environmental monitoring requirements of the site Restoration Plan as approved by the Pennsylvania Department of Environmental Protection.

ACTIVITIES

Energy*Solutions* first measured the depths to groundwater for all 10 site monitoring wells (MW-1 to MW-10). Energy*Solutions* sampled wells MW-2 through MW-5, MW-8 and MW-10 on September 20 and wells MW-1, MW-6, MW-7, and MW-9 on September 21. Water samples were collected in one gallon plastic containers for gross alpha and gross beta analysis. The wells were productive and sampling proceeded without any problems.

Groundwater samples were analyzed for gross alpha and gross beta activity using gas flow proportional counting (GFPC) (EPA Method 900.0 MOD) by Severn Trent Laboratories. (STL) radioanalytical laboratory in St. Louis, MO. For quality assurance (QA) purposes, Energy*Solutions* sent a duplicate sample from MW-9 to General Engineering Laboratories (GEL) in Charleston, SC.

RESULTS

Table 1 provides a summary of groundwater analytical results for MW-1 through MW-10 for gross alpha and gross beta as reported by STL. All results were less than the water quality contaminant limits of 15 picocuries per liter (pCi/L) gross alpha and less than 50 pCi/L gross beta. In fact, no sample has had concentrations greater than either limit since April 2001. As a result, none of the samples were analyzed for isotopic distribution. The maximum reported alpha activity was 6.7 pCi/L for the sample collected from MW-10; however, this concentration was less than the minimum detectable concentration (MDC) of 8.4 pCi/L. While MDCs for the gross alpha analyses were slightly elevated in several samples due to high residual mass in those samples, no MDCs were greater than the 15 pCi/L action limit. The maximum beta activity was 22.2 pCi/L for the sample collected from MW-8.

Surface water samples were also collected from a point upstream of the Whittaker site and a point downstream from the site on the Shenango River as well as in the two "ponds" that are formed from the storm water outfalls that pass below Section 4 of the Whittaker site. The data from these samples is provided in Table 2.

TABLE 1
GROUNDWATER ANALYSIS DATA – September 2006

Field ID	SMP Received		Analysis	Result	Error	MDA	Unit
MW-1	~4000	ml	Alpha	2.4	2.6	4.1	pCi/L
			Beta	4.3	3.3	5.3	pCi/L
MW-2	~4000	ml	Alpha	2.0	2.2	3.5	pCi/L
			Beta	4.1	2.3	3.5	pCi/L
MW-3	~4000	ml	Alpha	3.2	2.4	3.4	pCi/L
			Beta	12.9	3.4	4.4	pCi/L
$MW\text{-}3_{Dup}$	~4000	ml	Alpha	2.5	2.2	3.3	pCi/L
			Beta	8.5	3.1	4.4	pCi/L
MW-4	~4000	ml	Alpha	3.7	1.7	1.9	pCi/L
			Beta	6.3	1.6	2.1	pCi/L
MW-5	~4000	ml	Alpha	1.3	1.6	2.6	pCi/L
			Beta	9.8	2.7	3.6	pCi/L
MW-6	~4000	ml	Alpha	4.7	4.4	6.7	pCi/L
			Beta	13.8	4.7	6.6	pCi/L
MW-7	~4000	ml	Alpha	2.5	2.1	3.1	pCi/L
			Beta	6.0	2.6	3.9	pCi/L
MW-8	~4000	ml	Alpha	3.5	3.5	5.2	pCi/L
			Beta	20.4	5.7	7.5	pCi/L
MW-9	~4000	ml	Alpha	-1.6	2.8	6.4	pCi/L
(STL)			Beta	7.7	4.1	6.3	pCi/L
$MW\text{-}9_{Dup}$	~4000	ml	Alpha	1.73	1.84	2.95	pCi/L
(GEL)			Beta	2.18	1.41	2.51	pCi/L
MW-10	~4000	ml	Alpha	7.6	5.7	8.0	pCi/L
			Beta	31.8	7.6	9.4	pCi/L

TABLE 2
SURFACE WATER ANALYSIS DATA – September 2006

Field ID	SMP Received		Analysis	Result	Error	MDA	Unit
South Pond	4000	ml	Alpha	3.7	4.4	7.1	pCi/L
			Beta	7.4	3.7	5.6	pCi/L
North Pond	4000	ml	Alpha	1.8	2.5	4.2	pCi/L
			Beta	6.6	3.4	5.1	pCi/L
Upstream	4000	ml	Alpha	0.4	0.6	1.1	pCi/L
			Beta	2.4	1.2	1.9	pCi/L
Downstream	4000	ml	Alpha	1.1	0.8	1.1	pCi/L
(DS -1)			Beta	2.7	1.4	2.1	pCi/L

Attachment A provides the location of the groundwater monitoring wells. Attachment B provides the analytical report from STL and the sample chain-of-custody forms and the analytical report for the QA sample sent to GEL. Attachment C provides the well sampling logs.

Table 3 compares gross alpha and gross beta results from each Whittaker site groundwater sampling event dating back to September 2001. These data do not include duplicate samples analyzed at a QA laboratory. Table 4 provides the depths to groundwater in MW-1 through MW-10 from May 2000 through September 2006.

TABLE 3
GROUNDWATER CONCENTRATION COMPARISONS
UNFILTERED SAMPLES

Well Number	September 2001		August 2002		October 2003		September 2004		November 2005		September 2006	
	Gross alpha	Gross alpha	Gross alpha	Gross alpha	Gross alpha	Gross alpha	Gross alpha	Gross beta	Gross alpha	Gross beta	Gross alpha	Gross beta
MW-1	<MDA	3.2	<MDA	<MDA	<MDA	<MDA	<MDA	5.6	<MDA	<MDA	<MDA	<MDA
MW-2	<MDA	6.5	4.9	<MDA	3.5	3.5	4.9	9.3	<MDA	15.3	<MDA	4.1
MW-3	<MDA	<MDA	2.5	<MDA	<MDA	<MDA	2.5	<MDA	<MDA	<MDA	<MDA	12.9
MW-4	11	4.6	8.5	<MDA	5.6	5.6	8.5	9.5	<MDA	6.4	3.7	6.3
MW-5	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	7.7	<MDA	4.6	<MDA	9.8
MW-6	<MDA	5.2	5.4	6.0	<MDA	<MDA	5.4	6.7	6.0	6.5	<MDA	13.8
MW-7	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	4.4	<MDA	5.5	<MDA	6.0
MW-8	6.6	5.2	5.3	<MDA	<MDA	<MDA	5.3	22	<MDA	21.4	<MDA	20.4
MW-9	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	7.7
MW-10	11	<MDA	6.6	9.6	<MDA	<MDA	6.6	212	9.6	30.1	<MDA	31.8

TABLE 4
DEPTH TO GROUNDWATER IN MONITORING WELLS

Well Number	Depth to Groundwater (feet)[a]						
	September 2001	August 2002	October 2003	September 2004	November 2005	September 2006	Δ Feet[b]
MW-1	6.63	6.91	4.89	5.35	5.40	3.92	1.48
MW-2	11.44	11.36	9.32	9.88	10.78	9.45	1.33
MW-3	1.90	1.86	0.69	0.73	1.23	0	1.23
MW-4	16.70	16.79	15.33	15.53	16.24	14.8	1.44
MW-5	8.20	8.32	6.16	6.09	6.79	5.45	1.34
MW-6	20.70	20.83	20.22	20.34	20.51	19.96	0.55
MW-7	4.35	4.53	4.31	4.37	4.24	4.2	0.04
MW-8	19.86	19.60	18.65	18.22	17.26	18.16	-0.9
MW-9	0.05	0	0.1	0	0	0	0
MW-10	22.45	22.33	20.50	20.51	21.11	19.9	1.21
Average 1-year change in water level							**+ 0.77**

Note:

[a] Measured from the top of the PVC well casing.

[b] Change in water level change from November 2005 to September 2006.

ATTACHMENTS

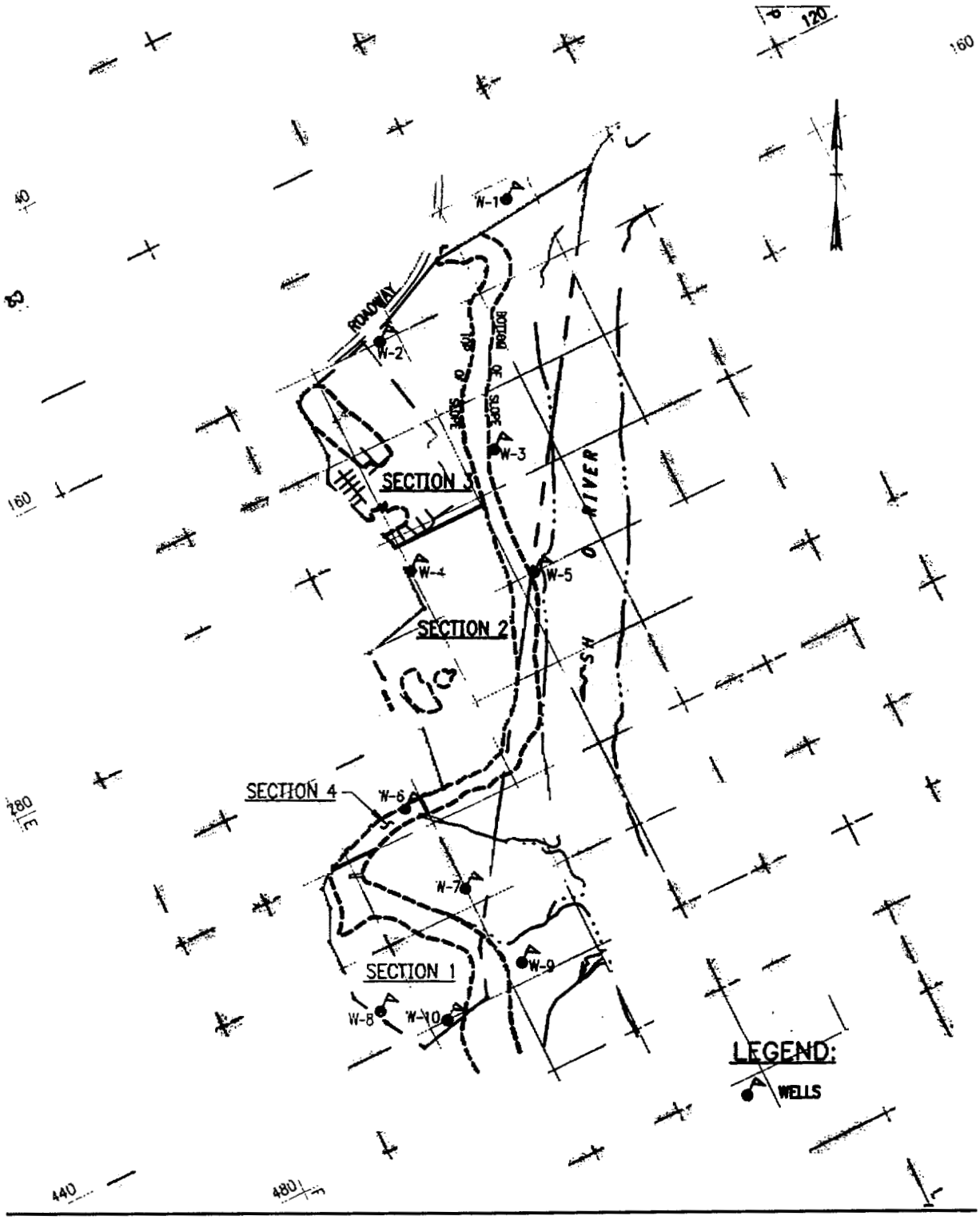
The following supporting documentation is provided as attachments to this report.

A Site Well Location Map
B STL and GEL Water Analysis Report and Chain-of-Custody Forms
C Energy*Solutions* Well Sampling Field Logs

ATTACHMENT A

Site Well Location Map

(1 page)


W-1
W-2
W-3
W-4
W-5
W-6
W-7
W-8
W-9
W-10
ROADWAY
SLOPE
BOTTOM OF SLOPE
SECTION 3
SECTION 2
SECTION 4
SECTION 1
RIVER
LEGEND:
WELLS

ATTACHMENT B

STL Water Analysis Report and Chain of Custody Forms
GEL Water Analysis Report (MW-9) and Chain of Custody Forms

(17 pages)

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 23535

Whittaker, Transfer, PA

Lot #: F6I220347

Kevin Taylor

Energy Solutions, LLC
17 College Street
Suite D
Greenville,, SC 29601

SEVERN TRENT LABORATORIES, INC.

FOR: Terry Romanko
Project Manager

September 27, 2006

Case Narrative
LOT NUMBER: F6I220347

This report contains the analytical results for the 14 samples received under chain of custody by STL St. Louis on September 22, 2006. These samples are associated with your Whittaker, Transfer, PA project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted below.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances
Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Gross Alpha/Beta Method: 900.0 MOD

The gross alpha/beta reporting limit was not met due to a reduction of sample size attributed to the sample's high residual mass. The analytical results are reported.

Affected Samples:

F6I220347 (1): MW-3
F6I220347 (4): MW-8
F6I220347 (5): MW-10
F6I220347 (6): MW-2-2
F6I220347 (7): MW-6
F6I220347 (8): MW-7
F6I220347 (9): MW-9
F6I220347 (10): MW-1
F6I220347 (11): SOUTH POND
F6I220347 (12): NORTH POND

METHODS SUMMARY

F6I220347

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0

References:

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F6I220347

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JEW0W	001	MW-3	09/20/06	10:33
JEW06	002	MW-4	09/20/06	10:38
JEW09	003	MW-5	09/20/06	12:38
JEW1D	004	MW-8	09/20/06	14:49
JEW1H	005	MW-10	09/20/06	15:35
JEW1J	006	MW-2-2	09/20/06	16:41
JEW1M	007	MW-6	09/21/06	08:36
JEW1Q	008	MW-7	09/21/06	09:55
JEW1R	009	MW-9	09/21/06	10:51
JEW1V	010	MW-1	09/21/06	13:35
JEW1W	011	SOUTH POND	09/21/06	11:30
JEW10	012	NORTH POND	09/21/06	11:50
JEW12	013	UPSTREAM WB	09/21/06	14:20
JEW13	014	DS 1	09/21/06	14:35

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Energy Solutions

Client Sample ID: MW-3

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-001
Work Order: JEW0W
Matrix: WATER

Date Collected: 09/20/06 1033
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**	**Batch # 6266102**		**Yld %**
Gross Alpha	3.2	U	2.4	3.0	3.4	09/23/06	09/26/06
Gross Beta	**12.9**		**3.4**	4.0	**4.4**	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: MW-3 DUP

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-001X
Work Order: JEW0W
Matrix: WATER

Date Collected: 09/20/06 1033
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**		**Batch # 6266102**	**Yld %**
Gross Alpha	2.5	U	2.2	3.0	3.3	09/23/06	09/26/06
Gross Beta	**8.5**		3.1	4.0	**4.4**	09/23/06	09/26/06

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: MW-4

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-002
Work Order: JEW06
Matrix: WATER

Date Collected: 09/20/06 1038
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L	Batch # 6266102		Yld %
Gross Alpha	3.7		1.7	3.0	1.9	09/23/06	09/26/06
Gross Beta	6.3		1.6	4.0	2.1	09/23/06	09/26/06

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

Energy Solutions

Client Sample ID: MW-5

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-003
Work Order: JEW09
Matrix: WATER

Date Collected: 09/20/06 1238
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**	**Batch # 6266102**		**Yld %**
Gross Alpha	1.3	U	1.6	3.0	2.6	09/23/06	09/26/06
Gross Beta	**9.8**		**2.7**	4.0	**3.6**	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U **Result is less than the sample detection limit.**

Energy Solutions

Client Sample ID: MW-8

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-004
Work Order: JEW1D
Matrix: WATER

Date Collected: 09/20/06 1449
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**	**Batch # 6266102**		**Yld %**
Gross Alpha	3.5	U	3.5	3.0	5.2	09/23/06	09/26/06
Gross Beta	**20.4**		**5.7**	4.0	**7.5**	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: MW-10

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-005
Work Order: JEW1H
Matrix: WATER

Date Collected: 09/20/06 1535
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**		**Batch # 6266102**	**Yld %**
Gross Alpha	7.6	U	5.7	3.0	8.0	09/23/06	09/26/06
Gross Beta	**31.8**		7.6	4.0	**9.4**	09/23/06	09/26/06

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: MW-2-2

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-006
Work Order: JEW1J
Matrix: WATER

Date Collected: 09/20/06 1641
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**		**Batch # 6266102**	**Yld %**
Gross Alpha	2.0	U	2.2	3.0	3.5	09/23/06	09/26/06
Gross Beta	**4.1**		**2.3**	4.0	**3.5**	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: MW-6

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-007
Work Order: JEW1M
Matrix: WATER

Date Collected: 09/21/06 0836
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**		**Batch # 6266102**	**Yld %**
Gross Alpha	4.7	U	4.4	3.0	6.7	09/23/06	09/26/06
Gross Beta	**13.8**		**4.7**	4.0	**6.6**	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: MW-7

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-008
Work Order: JEW1O
Matrix: WATER

Date Collected: 09/21/06 0955
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L	Batch # 6266102		Yld %
Gross Alpha	2.5	U	2.1	3.0	3.1	09/23/06	09/26/06
Gross Beta	**6.0**		2.6	4.0	3.9	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: MW-9

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-009
Work Order: JEW1R
Matrix: WATER

Date Collected: 09/21/06 1051
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**	**Batch # 6266102**		**Yld %**
Gross Alpha	-1.6	U	2.8	3.0	6.4	09/23/06	09/26/06
Gross Beta	**7.7**		**4.1**	4.0	**6.3**	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: MW-1

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-010
Work Order: JEW1V
Matrix: WATER

Date Collected: 09/21/06 1335
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**	**Batch # 6266102**		**Yld %**
Gross Alpha	2.4	U	2.6	3.0	4.1	09/23/06	09/26/06
Gross Beta	4.3	U	3.3	4.0	5.3	09/23/06	09/26/06

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: SOUTH POND

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-011
Work Order: JEW1W
Matrix: WATER

Date Collected: 09/21/06 1130
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 6266102	Yld %
Gross Alpha	3.7	U	4.4	3.0	7.1	09/23/06	09/26/06
Gross Beta	**7.4**		**3.7**	4.0	**5.6**	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: NORTH POND

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-012
Work Order: JEW10
Matrix: WATER

Date Collected: 09/21/06 1150
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**		**Batch # 6266102**	**Yld %**
Gross Alpha	1.8	U	2.5	3.0	4.2	09/23/06	09/26/06
Gross Beta	**6.6**		**3.4**	4.0	**5.1**	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: UPSTREAM WB

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-013
Work Order: JEW12
Matrix: WATER

Date Collected: 09/21/06 1420
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**	**Batch # 6266102**		**Yld %**
Gross Alpha	0.36	U	0.63	3.00	1.1	09/23/06	09/26/06
Gross Beta	**2.4**	**J**	**1.2**	4.0	**1.9**	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

Energy Solutions

Client Sample ID: DS 1

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6I220347-014
Work Order: JEW13
Matrix: WATER

Date Collected: 09/21/06 1435
Date Received: 09/22/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				**pCi/L**	**Batch # 6266102**		**Yld %**
Gross Alpha	1.08	U	0.79	3.00	1.1	09/23/06	09/26/06
Gross Beta	**2.7**	**J**	1.4	4.0	**2.1**	**09/23/06**	**09/26/06**

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

METHOD BLANK REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F6I220347
Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC		Prep Date	Lab Sample ID / Analysis Date
Gross Alpha/Beta EPA 900			pCi/L	Batch # 6266102		Yld %		F6I230000-102B
Gross Alpha	0.39	U	0.56	2.00	0.92		09/23/06	09/26/06
Gross Beta	1.4	U	1.2	4.0	1.9		09/23/06	09/26/06

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F6I220347
Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ+/-)	MDC	% Yld	% Rec	Lab Sample ID / QC Control Limits
Gross Alpha/Beta EPA 900			**pCi/L**	**900.0 MOD**			**F6I230000-102C**
Gross Beta	92.4	84.6	9.0	1.8		92	(77 - 125)
	Batch #:	6266102		**Analysis Date:**	09/26/06		
Gross Alpha/Beta EPA 900			**pCi/L**	**900.0 MOD**			**F6I230000-102C**
Gross Alpha	51.4	57.5	7.0	1.1		112	(55 - 113)
	Batch #:	6266102		**Analysis Date:**	09/26/06		

NOTE(S)

MDC is determined by instrument performance only
Calculations are performed before rounding to avoid round-off error in calculated results

MATRIX SPIKE REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot Id: F6I220347 Date Sampled: 09/20/06
Matrix: WATER Date Received: 09/22/06

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2 σ +/-)	QC Sample ID %YLD	QC Sample ID %REC	QC Control Limits
Gross Alpha/Beta EPA 900			**pCi/L**		**900.0 MOD**			**F6I220347-001**	
Gross Beta	215	228	24		12.9	3.4		100	(26 - 150)
	Batch #:	6266102		Analysis Date:		09/26/06			
Gross Alpha/Beta EPA 900			**pCi/L**		**900.0 MOD**			**F6I220347-001**	
Gross Alpha	120	93	13		3.2	2.4		75	(32 - 150)
	Batch #:	6266102		Analysis Date:		09/26/06			

NOTE(S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off errors in calculated results.

DUPLICATE EVALUATION REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F6I220347 Date Sampled: 09/20/06
Matrix: WATER Date Received: 09/22/06

Parameter	SAMPLE Result		Total Uncert. (2σ+/-)	% Yld	DUPLICATE Result		Total Uncert. (2 σ+/-)	% Yld	QC Sample ID Precision	
Gross Alpha/Beta EPA 900				**pCi/L**	**900.0 MOD**				**F6I220347-001**	
Gross Alpha	3.2	U	2.4		2.5	U	2.2		23	%RPD
Gross Beta	12.9		3.4		8.5		3.1		41	%RPD
	Batch #:		6266102 (Sample)		6266102 (Duplicate)					

NOTE(S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off error in calculated results

U Result is less than the sample detection limit.

Chain of Custody Record

SEVERN TRENT **STL**
Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Energy Solutions	R. McPeak / K. Taylor	9/21/06	320394
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1* **of** 2
143 West St.	801-303-1092		

City	State	Zip Code	Site Contact	Lab Contact
New Milford	CT	06776	J. Toumey / P. Horkman	

Project Name and Location (State): Whittaker, Transfer PA. 16154

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed): Gross alpha/beta

* Samples in 3 coolers

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Gross alpha/beta	Analysis	Special Instructions/Conditions of Receipt
MW-3	9/20/06	10:33		✓					1				X	4X(X) ↓	If gross alpha is
MW-4	9/20/06	11:38		✓					1				X		> 15 pc/l or if
MW-5	9/20/06	12:38		✓					1				X		gross beta is >
MW-8	9/20/06	2:49		✓					1				X		50 pci/l for any
MW-10	9/20/06	3:35		✓					1				X		sample analyze
MW-2-2	9/20/06	4:41		✓					1				X		that sample for
MW-6	9/21/06	8:36		✓					1				X		isotopic uranium
MW-7	9/21/06	9:55		✓					1				X		thorium and their
MW-9	9/21/06	10:51		✓					1				X		daughter products
MW-1	9/21/06	1:35		✓					1				X		
South Pond	9/21/06	11:30		✓					1				X		
North Pond	9/21/06	11:50		✓					1				X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other Standard

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Robert E. McPeak	9/21/06		[signature]	9/22/06	0915
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
3. Relinquished By	**Date**	**Time**	**3. Received By**	**Date**	**Time**

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

LOT# F6I220347

STL ST. LOUIS

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Energy Solutions	Project Manager: R. McPeak / K. Taylor	Date: 9/21/06	Chain of Custody Number: 320395
Address: 143 West St.	Telephone Number (Area Code)/Fax Number: 801-303-1092	Lab Number:	Page 2* of 2
City: New Milford / State: CT / Zip Code: 06776	Site Contact: J. Toomey, P. Herkman	Lab Contact:	Analysis (Attach list if more space is needed)
Project Name and Location (State): Whittaker Transfer, PA 16154	Carrier/Waybill Number:		* Samples in 2 Coolers
Contract/Purchase Order/Quote No.			Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Gross alpha/beta														
Upstream NB	9/21/06	2:20		✓					1				X					4LD									See note on
DS 1	9/21/06	2:35		✓					4				X					4XLD									Sht 1 of 2

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other Standard

QC Requirements (Specify):

1. Relinquished By: R. McPeak	Date: 9/21/06	Time:	1. Received By: B-L	Date: 9/22/06	Time: 0915
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

STL St. Louis

Lot #(s): F6I220347

- 4357 -

Condition Upon Receipt Form

Client: Energy Solutions
Quote No: 109501
COC/RFA No: 320394, 320395
Initiated By: BD
Date: 9/22/06
Time: 0915

Shipping Information

Shipper Name: FE

Multiple Packages (Y) N N/A

Shipping # (s):*

1. 8571 1504 3190
2. 3180
3. 3179
4.
5.
6.
7.
8.
9.
10.

Sample Temperature (s):**

1. ambient
2. 1
3.
4.
5.
6.
7.
8.
9.
10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y (N)	Was sample received broken?	8.	(Y) N	Sample received with Chain of Custody?
2.	(Y) N N/A	Was sample received with proper pH[1] ? (If not, make note below)	9.	(Y) N	Chain of Custody matches sample ID's on container(s)?
3.	Y N	If N/A-Was pH taken by original STL Lab?	10.	(Y) N	Are there custody seals present on cooler?
4.	(Y) N	Sample received in proper containers?	11.	Y (N) N/A	Do custody seals on cooler appear to be tampered with?
5.	(Y) N	Sample volume sufficient for analysis?	12.	Y (N)	Are there custody seals present on bottles?
6.	Y N (N/A)	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)	13.	Y N (N/A)	Do custody seals on bottles appear to be tampered with?
7.	(Y) N	Were contents of the cooler frisked after opening	14.	Y N	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: L Lowry Date: 9/25/06

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
Meeting Today's Needs with a Vision for Tomorrow

October 12, 2006

Mr. Robert E. McPeak, Jr.
ENERGYSOLUTIONS, LLC
143 West Street
New Milford, Connecticut 06776

Re: Whitaker, PA Site
Work Order: 172493

Dear Mr. Jr.:

General Engineering Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on September 22, 2006. This data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4433.

Sincerely,

Cheryl Duffy
Project Manager

Enclosures

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Chain of Custody and Analytical Request

172493

General Engineering Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Energy Solutions Phone #: 801-303-1092

Project/Site Name: Whittaker Transfer, PA Fax #: 860-356-3295

Address: 143 West St. New Milford, CT 06776

Collected by: R. McPeak Send Results To: R. McPeak / K. Taylor

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID	Date Collected (mm-dd-yy)	Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Gross alpha beta	NI										<-- Preservative Type (6)
MW-9 GEL	9/21/06	11:00	FD	N*	GW	N		1	✓											

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: Rush: Specify: (Subject to Surcharge) Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Robert E. McPeak	9/21/06		K. Taylor	9/22/06	0930
2						
3						

Sample Shipping and Delivery Details

GEL PM:
Method of Shipment: Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, M **SD** = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.
4.) Matrix Codes: **DW** = Drinking Water, **GW** = Groundwater, **SW** = Surface Water, **WW** = Waste Water, **W** = Water, **SO** = Soil, **SD** = Sediment, **SL** = Sludge, **SS** = Solid Waste, **O** = Oil, **F** = Filter, **P** = Wipe, **U** = Urine, **F** = Fecal, **N** = Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B** , **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).
6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If **no preservative** is added = leave field blank

* Low Flow

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

For Lab Receiving Use Only
Custody Seal Intact? YES NA NO
Cooler Temp: 2 °C

SAMPLE RECEIPT & REVIEW FORM

PM use only

Client: Energy Solutions	**SDG/ARCOC/Work Order:** 172493
Date Received: 9/22/06	**PM(A) Review (ensure non-conforming items are resolved prior to signing):** Cheryl Dott
Received By: (W)	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.		/		Circle Coolant # ice bags blue ice dry ice (none) other describe) 20c
3	Chain of custody documents included with shipment?	/			
4	Sample containers intact and sealed?	/			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	/			Sample ID's, containers affected and observed pH:
6	VOA vials free of headspace (defined as < 6mm bubble)?		/		Sample ID's and containers affected:
7	Are Encore containers present? (If yes, immediately deliver to VOA laboratory)			/	
8	Samples received within holding time?	/			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	/			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	/			Sample ID's affected:
11	Number of containers received match number indicated on COC?	/			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	/			
14	Air Bill ,Tracking #'s, & Additional Comments	8571 1504 3168			

	Suspected Hazard Information	Non-Regulated	Regulated	High Level	RSO RAD Receipt # _____ *If > x2 area background is observed on samples identified as "non-regulated/non-radioactive", contact the Radiation Safety group for further investigation.
A	Radiological Classification?	/			Maximum Counts Observed*: cpm Dw
B	PCB Regulated?	/			Comments:
C	Shipped as DOT Hazardous Material? If yes, contact Waste Manager or ESH Manager.	/			Hazard Class Shipped: UN#:

PM (or PMA) review of Hazard classification: _____ Initials CD Date: 9/23/06

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

ENRG001 Energysolutions

Client SDG: 172493 GEL Work Order: 172493

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

ND The analyte concentration is not detected above the detection limit.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Cheryl Duffy.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : ENERGYSOLUTIONS, LLC
Address : 143 West Street
New Milford, Connecticut 06776

Report Date: October 12, 2006

Contact: Mr. Robert E. McPeak, Jr.
Project: **Whitaker, PA Site**

Client Sample ID:	MW-9 GEL	Project:	ENRG00102
Sample ID:	172493001	Client ID:	ENRG001
Matrix:	Ground Water		
Collect Date:	21-SEP-06 11:00		
Receive Date:	22-SEP-06		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Gross A/B, liquid											
Alpha	U	1.73	+/-1.84	2.95	5.00	pCi/L		JXS4	10/11/06	1227	573884	1
Beta		2.18	+/-1.41	2.15	5.00	pCi/L					

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0	

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: October 12, 2006

ENERGYSOLUTIONS, LLC
143 West Street
New Milford, Connecticut

Contact: Mr. Robert E. McPeak, Jr.

Workorder: 172493

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 573884										
QC1201195352 172606003 DUP										
Alpha		70.5 +/-6.21		79.2 +/-6.97	pCi/L	12		(0%-20%)	JXS4	10/11/06 13:58
Beta		45.8 +/-2.96		44.2 +/-3.23	pCi/L	4		(0%-20%)		
QC1201195354 LCS										
Alpha	71.9			89.4 +/-13.5	pCi/L		124	(75%-125%)		10/11/06 13:59
Beta	209			203 +/-13.4	pCi/L		97	(75%-125%)		
QC1201195351 MB										
Alpha			U	0.424 +/-0.975	pCi/L					10/11/06 13:58
Beta			U	0.398 +/-0.713	pCi/L					
QC1201195353 172606003 MS										
Alpha	108	70.5 +/-6.21		84.7 +/-14.6	pCi/L		13*	(75%-125%)		10/12/06 12:05
Beta	313	45.8 +/-2.96		291 +/-14.1	pCi/L		79	(75%-125%)		
QC1201195355 172606003 MSD										
Alpha	108	70.5 +/-6.21		87.6 +/-14.7	pCi/L	3	16*	(0%-20%)		10/12/06 12:06
Beta	313	45.8 +/-2.96		312 +/-14.6	pCi/L	7	85	(0%-20%)		

Notes:
The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- R Sample results are rejected

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 172493

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

List of current GEL Certifications as of 12 October 2006

State	Certification
Alaska	UST-062
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California	01151CA
Colorado	GenEngLabs
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA	WG-15J
Florida/NELAP	E87156
Georgia	E87156 (FL/NELAP)
Hawaii	N/A
Idaho	N/A
Illinois	200029
Indiana	C-SC-01
Kansas	E-10332
Kentucky	90129
Louisiana	03046
Maryland	270
Massachusetts	M-SC012
Michigan	9903
Nevada	SC12
New Jersey	SC002
New Mexico	FL NELAP E87156
New York	11501
North Carolina	233
North Carolina Drinking W	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania	68-00485
South Carolina	10120001/10585001/10120002
Tennessee	02934
Texas	TX213-2006A
Texas NELAP	T104704235-06-TX
U.S. Dept. of Agriculture	S-52597
US Army Corps of Engineer	N/A
Utah	8037697376 GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

ATTACHMENT C

Energy*Solutions* Well Sampling Field Logs

(10 pages)

MW-1

Groundwater Sampling Log

Project: Whittaker Corporation, Greenville, PA
Project Number: 137003

Field Staff: R. McPeak, J. Lavender

ENERGYSOLUTIONS

Well ID	PID	Depth to Water Static (ft.)	Depth to Water Initial (ft.)	Depth to Water After (ft.)	Water Volume in Equip. (gal.)	Depth Tube Set (ft.)	Total Depth Previous (ft.)	Total Depth Final (ft.)	Date Pump in Well	Time Pump in Well	Time Pump Started	Time Pump Stopped
MW-1	--	3.92	4.05	4.22		13.0	18.36	18.46	9/21/06	1:10	1:17	2:00

Tubing Type	Sampling Device	Depth to Screen	Screen Elevation	Screen Length	Mid-Screen Depth	Casing Type	Well Diameter	Well Bottom Elevation	Top of PVC Elevation	Average Pumping Rate gpm	Date Sampled	Sample Time
Polyethylene	Peristaltic Pump	8.60	917.61	10	13.6	Steel/PVC	2	907.75	926.21	0.04	9/21/06	1:35

Time	DTW (ft)	pH	Temperature (^{0}C)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/kg)	Turbidity (NTU)
1:17	4.05	7.85	16.7	0.723	6.45	240
1:20	4.15	6.99	16.1	0.720	2.25	290
1:23	4.18	6.99	16.0	0.715	1.73	270
1:26	4.18	6.98	16.1	0.712	1.52	240
1:29	4.18	6.94	16.2	0.712	1.45	190
1:32	4.22	6.92	15.9	0.716	1.40	160
1:35	4.22	6.90	15.8	0.716	1.37	150

Notes: The EPA Method (EPA/540/S-95/504 April, 1996) suggests stabilization of field parameters for three successive readings:
+ or - 0.1 for pH
+ or - 3% for Specific Conductivity - SC
+ or - 10% for Dissolved Oxygen - DO

Readings taken at 3 minute intervals.

Comments:

Prepared by: R. McPeak
Date: 10/17/06
Reviewed by: P. Malumphy
Date: 10/17/06

File: Z:\DEPT016\Whittaker\Environmental\Groundwater Sample Logs\Well Sampling (Sept 2006).xls
Sheet: MW-1

MW-2

Groundwater Sampling Log

Project: Whittaker Corporation, Greenville, PA
Project Number: 137003

Field Staff: R. McPeak
J. Lavender

ENERGYSOLUTIONS

Well ID	PID	Depth to Water Static (ft.)	Depth to Water Initial (ft.)	Depth to Water After (ft.)	Water Volume in Equip. (gal.)	Depth Tube Set (ft.)	Total Depth Previous (ft.)	Total Depth Final (ft.)	Date Pump in Well	Time Pump in Well	Time Pump Started	Time Pump Stopped
MW-2	--	9.45	9.44	10.55	--	19	26.66	26.66	9/20/06	4:15	4:22	5:10

Tubing Type	Sampling Device	Depth to Screen	Screen Elevation	Screen Length	Mid-Screen Depth	Casing Type	Well Diameter	Well Bottom Elevation	Top of PVC Elevation	Average Pumping Rate (gpm)	Date Sampled	Sample Time
Polyethylene	Peristaltic Pump	11.84	936.37	15	19.3	Steel/PVC	2	921.55	948.21	0.033	9/20/06	4:22

Time	DTW (ft)	pH	Temperature (^{0}C)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/kg)	Turbidity (NTU)
4:22	9.90	7.31	13.7	0.895	4.09	100
4:26	10.15	7.33	13.9	0.895	1.78	120
4:29	10.25	7.33	13.9	0.885	1.54	130
4:32	10.30	7.33	13.8	0.888	1.49	160
4:35	10.40	7.33	13.9	0.887	1.31	160
4:38	10.50	7.33	14.0	0.883	1.26	160
4:41	10.55	7.32	14.0	0.896	1.26	170

Notes: The EPA Method (EPA/540/S-95/504 April, 1996) suggests stabilization of field parameters for three successive readings:
+ or - 0.1 for pH
+ or - 3% for Specific Conductivity - SC
+ or - 10% for Dissolved Oxygen - DO
* Unable to achieve minimum drawdown of <0.3 feet at these wells in accordance with work plan submitted to the Pennsylvania Department of Environmental Protection. Three well volumes were removed prior to sampling.

Readings taken at 3 minute intervals.

Comments:

Prepared by: R. McPeak
Date: 10/17/06
Reviewed by: P. Malumphy
Date: 10/17/06

MW-3

Groundwater Sampling Log

Project: Whittaker Corporation, Greenville, PA
Project Number: 137003

Field Staff: R. McPeak
J. Lavender

ENERGYSOLUTIONS

Well ID	PID	Depth to Water Static (ft.)	Depth to Water Initial (ft.)	Depth to Water After (ft.)	Water Volume in Equip. (gal.)	Depth Tube Set (ft.)	Total Depth Previous (ft.)	Total Depth Final (ft.)	Date Pump in Well	Time Pump in Well	Time Pump Started	Time Pump Stopped
MW-3	--	0.00	0.50	0.50	--	8.00	16.44	16.44	9/20/06	10:20	10:25	10:48

Tubing Type	Sampling Device	Depth to Screen	Screen Elevation	Screen Length	Mid-Screen Depth	Casing Type	Well Diameter	Well Bottom Elevation	Top of PVC Elevation	Average Pumping Rate (gpm)	Date Sampled	Sample Time
Polyethylene	Peristaltic Pump	6.44	920.55	10	11.4	Steel/PVC	2	910.55	926.99	0.07	9/20/06	10:34

Time	DTW (ft)	pH	Temperature (^{0}C)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/kg)	Turbidity (NTU)
10:25	0.50	6.86	12.9	0.732	1.37	12
10:28	0.50	6.87	12.9	0.732	1.10	14
10:31	0.50	6.88	12.9	0.732	1.00	22
10:34	0.50	6.88	12.9	0.731	0.96	23

Notes: The EPA Method (EPA/540/S-95/504 April, 1996) suggests stabilization of field parameters for three successive readings:
+ or - 0.1 for pH
+ or - 3% for Specific Conductivity - SC
+ or - 10% for Dissolved Oxygen - DO

Readings taken at 3 minute intervals.

Comments:

Prepared by: R. McPeak
Date: 10/17/06
Reviewed by: P. Malumphy
Date: 10/17/06

MW-4

Groundwater Sampling Log

Project: Whittaker Corporation, Greenville, PA
Project Number: 137003

Field Staff: R. McPeak
J. Lavender

ENERGYSOLUTIONS

Well ID	PID	Depth to Water Static (ft.)	Depth to Water Initial (ft.)	Depth to Water After (ft.)	Water Volume in Equip. (gal.)	Depth Tube Set (ft.)	Total Depth Previous (ft.)	Total Depth Final (ft.)	Date Pump in Well	Time Pump in Well	Time Pump Started	Time Pump Stopped
MW-4	--	14.8	14.9	15.1	--	20	32.5	31.7	9/20/06	11:10	11:12	11:46

Tubing Type	Sampling Device	Depth to Screen	Screen Elevation	Screen Length	Mid-Screen Depth	Casing Type	Well Diameter	Well Bottom Elevation	Top of PVC Elevation	Average Pumping Rate (gpm)	Date Sampled	Sample Time
Polyethylene	Peristaltic Pump	17.50	930.20	15	25.0	Steel/PVC	2	916.00	947.70	0.125	9/20/06	11:38

Time	DTW (ft)	pH	Temperature (^{0}C)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/kg)	Turbidity (NTU)
11:12	14.90	8.22	15.4	0.382	2.82	154
11:15	14.95	8.23	15.2	0.409	1.42	150
11:18	14.95	8.17	15.2	0.422	1.10	120
11:21	15.00	8.11	15.0	0.431	0.96	80
11:24	15.00	8.06	14.8	0.432	0.92	72
11:29	15.00	7.99	14.7	0.459	0.87	57
11:32	15.10	7.86	14.6	0.485	0.86	62
11:35	15.10	7.81	14.6	0.508	0.82	75
11:38	15.10	7.78	14.7	0.525	0.80	79

Notes: The EPA Method (EPA/540/S-95/504 April, 1996) suggests stabilization of field parameters for three successive readings:
+ or - 0.1 for pH
+ or - 3% for Specific Conductivity - SC
+ or - 10% for Dissolved Oxygen - DO

Readings taken at 3 minute intervals.

Comments:

Prepared by: R. McPeak
Date: 10/17/06
Reviewed by: P. Malumphy
Date: 10/17/06

MW-5

Groundwater Sampling Log

Project: Whittaker Corporation, Greenville, PA
Project Number: 137003

Field Staff: R. McPeak
J. Lavender

ENERGYSOLUTIONS

Well ID	PID	Depth to Water Static (ft.)	Depth to Water Initial (ft.)	Depth to Water After (ft.)	Water Volume in Equip. (gal.)	Depth Tube Set (ft.)	Total Depth Previous (ft.)	Total Depth Final (ft.)	Date Pump in Well	Time Pump in Well	Time Pump Started	Time Pump Stopped
MW-5	--	5.45	5.56	5.56	--	14.8	22.29	22.32	9/20/06	12:15	12:20	12:58

Tubing Type	Sampling Device	Depth to Screen	Screen Elevation	Screen Length	Mid-Screen Depth	Casing Type	Well Diameter	Well Bottom Elevation	Top of PVC Elevation	Average Pumping Rate (gpm)	Date Sampled	Sample Time
Polyethylene	Peristaltic Pump	7.29	920.36	15	14.8	Steel/PVC	2	905.04	927.36	0.05	9/20/06	12:38

Time	DTW (ft)	pH	Temperature (^{0}C)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/kg)	Turbidity (NTU)
12:20	5.56	7.61	14.5	0.697	2.97	94
12:23	5.56	7.45	14.8	0.698	1.72	78
12:26	5.56	7.40	15.0	0.697	1.73	76
12:29	5.56	7.30	15.3	0.692	3.64	42
12:32	5.56	7.25	15.4	0.693	4.87	35
12:35	5.56	7.23	15.5	0.695	5.17	37
12:38	5.56	7.21	15.4	0.694	5.18	47

Notes: The EPA Method (EPA/540/S-95/504 April, 1996) suggests stabilization of field parameters for three successive readings:
+ or - 0.1 for pH
+ or - 3% for Specific Conductivity - SC
+ or - 10% for Dissolved Oxygen - DO

Readings taken at 3 minute intervals.

Comments:

Prepared by: R. McPeak
Date: 10/17/06
Reviewed by: P. Malumphy
Date: 10/17/06

MW-6

Groundwater Sampling Log

Project: Whittaker Corporation, Greenville, PA
Project Number: 137003

Field Staff: R. McPeak
J. Lavender

ENERGYSOLUTIONS

Well ID	PID	Depth to Water Static (ft.)	Depth to Water Initial (ft.)	Depth to Water After (ft.)	Water Volume in Equip. (gal.)	Depth Tube Set (ft.)	Total Depth Previous (ft.)	Total Depth Final (ft.)	Date Pump in Well	Time Pump in Well	Time Pump Started	Time Pump Stopped
MW-6	--	19.96	19.96	20.25	--	28.7	31.7	31.33	9/21/06	8:20	8:24	9:07

Tubing Type	Sampling Device	Depth to Screen	Screen Elevation	Screen Length	Mid-Screen Depth	Casing Type	Well Diameter	Well Bottom Elevation	Top of PVC Elevation	Average Pumping Rate (gpm)	Date Sampled	Sample Time
Polyethylene	Peristaltic Pump	16.70	931.33	15	24.2	Steel/PVC	2	916.7	948.03	0.033	9/21/06	8:36

Time	DTW (ft)	pH	Temperature (^{0}C)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/kg)	Turbidity (NTU)
8:24	20.10	6.47	13.6	1.57	10.38	510
8:27	20.10	6.77	13.8	1.58	10.08	460
8:30	20.18	6.84	13.9	1.59	9.94	460
8:33	20.20	6.86	13.9	1.59	9.91	450
8:36	20.25	6.87	13.9	1.60	9.91	440

Notes: The EPA Method (EPA/540/S-95/504 April, 1996) suggests stabilization of field parameters for three successive readings:
+ or - 0.1 for pH
+ or - 3% for Specific Conductivity - SC
+ or - 10% for Dissolved Oxygen - DO

Readings taken at 3 minute intervals.

Comments:

Prepared by: R. McPeak
Date: 10/17/06
Reviewed by: P. Malumphy
Date: 10/17/06

MW-7

Groundwater Sampling Log

Project: Whittaker Corporation, Greenville, PA
Project Number: 137003

Field Staff: R. McPeak
J. Lavender

ENERGYSOLUTIONS

Well ID	PID	Depth to Water Static (ft.)	Depth to Water Initial (ft.)	Depth to Water After (ft.)	Water Volume in Equip. (gal.)	Depth Tube Set (ft.)	Total Depth Previous (ft.)	Total Depth Final (ft.)	Date Pump in Well	Time Pump in Well	Time Pump Started	Time Pump Stopped
MW-7	--	4.2	4.2	4.28	--	9.6	14.6	14.2	9/21/06	9:30	9:32	10:10

Tubing Type	Sampling Device	Depth to Screen	Screen Elevation	Screen Length	Mid-Screen Depth	Casing Type	Well Diameter	Well Bottom Elevation	Top of PVC Elevation	Average Pumping Rate (gpm)	Date Sampled	Sample Time
Polyethylene	Peristaltic Pump	4.60	923.80	10	9.6	Steel/PVC	2	914.20	928.40	0.067	9/21/06	9:55

Time	DTW (ft)	pH	Temperature (^{0}C)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/kg)	Turbidity (NTU)
9:34	4.20	7.13	13.8	0.795	10.72	87
9:37	4.25	7.13	15.4	0.789	2.50	86
9:40	4.28	7.13	15.9	0.797	1.65	55
9:43	4.28	7.12	16.0	0.800	1.21	38
9:46	4.28	7.11	16.0	0.802	1.10	24
9:49	4.28	7.10	16.0	0.803	1.02	34
9:52	4.28	7.10	16.0	0.804	0.99	36
9:55	4.28	7.10	16.0	0.804	0.91	46

Notes: The EPA Method (EPA/540/S-95/504 April, 1996) suggests stabilization of field parameters for three successive readings:
+ or - 0.1 for pH
+ or - 3% for Specific Conductivity - SC
+ or - 10% for Dissolved Oxygen - DO

Readings taken at 3 minute intervals.

Comments:

Prepared by: R. McPeak
Date: 10/17/06
Reviewed by: P. Malumphy
Date: 10/17/06

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Sheet: MW-7

MW-8

Groundwater Sampling Log

Project: Whittaker Corporation, Greenville, PA
Project Number: 137003
Field Staff: R. McPeak, J. Lavender

ENERGYSOLUTIONS

Well ID	PID	Depth to Water Static (ft.)	Depth to Water Initial (ft.)	Depth to Water After (ft.)	Water Volume in Equip. (gal.)	Depth Tube Set (ft.)	Total Depth Previous (ft.)	Total Depth Final (ft.)	Date Pump in Well	Time Pump in Well	Time Pump Started	Time Pump Stopped
MW-8	--	18.16	18.16	18.3	--	21.5	31.60	28.13	9/20/06	2:20	2:28	3:02

Tubing Type	Sampling Device	Depth to Screen	Screen Elevation	Screen Length	Mid-Screen Depth	Casing Type	Well Diameter	Well Bottom Elevation	Top of PVC Elevation	Average Pumping Rate (gpm)	Date Sampled	Sample Time
Polyethylene	Peristaltic Pump	16.6	938.55	15	24.1	Steel/PVC	2	927.02	955.15	0.077	9/20/06	2:49

Time	DTW (ft)	pH	Temperature (^{0}C)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/kg)	Turbidity (NTU)
2:28	18.16	7.03	14.6	1.93	10.21	170
2:31	18.30	6.78	14.0	1.97	4.02	18
2:34	18.30	6.76	14.0	1.98	2.80	12
2:37	18.30	6.74	14.0	1.98	2.31	29
2:40	18.30	6.73	14.0	1.98	2.08	150
2:43	18.30	6.73	14.1	1.99	1.95	33
2:46	18.30	6.75	14.0	1.98	1.85	67
2:49	18.30	6.69	13.8	1.99	1.93	95

Notes: The EPA Method (EPA/540/S-95/504 April, 1996) suggests stabilization of field parameters for three successive readings:
+ or - 0.1 for pH
+ or - 3% for Specific Conductivity - SC
+ or - 10% for Dissolved Oxygen - DO

Readings taken at 3 minute intervals.

Comments:

Prepared by: R. McPeak
Date: 10/17/06
Reviewed by: P. Malumphy
Date: 10/17/06

MW-9

Groundwater Sampling Log

Project: Whittaker Corporation, Greenville, PA
Project Number: 137003

Field Staff: R. McPeak
J. Lavender

ENERGYSOLUTIONS

Well ID	PID	Depth to Water Static (ft.)	Depth to Water Initial (ft.)	Depth to Water After (ft.)	Water Volume in Equip. (gal.)	Depth Tube Set (ft.)	Total Depth Previous (ft.)	Total Depth Final (ft.)	Date Pump in Well	Time Pump in Well	Time Pump Started	Time Pump Stopped
MW-9	--	Free Flow	Free Flow	0.05	--	12.0	18.4	15.3	9/21/06	10:25	10:30	11:13

Tubing Type	Sampling Device	Depth to Screen	Screen Elevation	Screen Length	Mid-Screen Depth	Casing Type	Well Diameter	Well Bottom Elevation	Top of PVC Elevation	Average Pumping Rate (gpm)	Date Sampled	Sample Time
Polyethylene	Peristaltic Pump	8.40	916.23	10	13.4	Steel/PVC	2	909.33	924.63	0.045	9/21/06	10:51

Time	DTW (ft)	pH	Temperature (^{0}C)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/kg)	Turbidity (NTU)
10:30	Free Flow	7.04	13.1	1.21	7.93	81
10:33	0.05	7.17	12.6	1.23	2.43	110
10:36	0.05	7.17	12.5	1.23	1.48	110
10:39	0.05	7.16	12.4	1.24	1.24	88
10:42	0.05	7.17	12.3	1.24	1.17	120
10:45	0.05	7.17	12.3	1.24	1.12	98
10:48	0.05	7.17	12.3	1.24	1.07	110
10:51	0.05	7.18	12.3	1.24	1.04	90

Notes: The EPA Method (EPA/540/S-95/504 April, 1996) suggests stabilization of field parameters for three successive readings:
+ or - 0.1 for pH
+ or - 3% for Specific Conductivity - SC
+ or - 10% for Dissolved Oxygen - DO

Readings taken at 3 minute intervals.

Comments:

Prepared by: R. McPeak
Date: 10/17/06
Reviewed by: P. Malumphy
Date: 10/17/06

MW-10

Groundwater Sampling Log

Project: Whittaker Corporation, Greenville, PA
Project Number: 137003

Field Staff: R. McPeak
J. Lavender

ENERGY SOLUTIONS

Well ID	PID	Depth to Water Static (ft.)	Depth to Water Initial (ft.)	Depth to Water After (ft.)	Water Volume in Equip. (gal.)	Depth Tube Set (ft.)	Total Depth Previous (ft.)	Total Depth Final (ft.)	Date Pump in Well	Time Pump in Well	Time Pump Started	Time Pump Stopped
MW-10	--	19.90	20.75	20.95	--	25	32.29	31.2	9/20/06	3:20	3:26	3:55

Tubing Type	Sampling Device	Depth to Screen	Screen Elevation	Screen Length	Mid-Screen Depth	Casing Type	Well Diameter	Well Bottom Elevation	Top of PVC Elevation	Average Pumping Rate (gpm)	Date Sampled	Sample Time
Polyethylene	Peristaltic Pump	7.29	933.83	15	14.8	Steel/PVC	2	919.92	951.12	0.05	9/20/06	3:26

Time	DTW (ft)	pH	Temperature (^{0}C)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/kg)	Turbidity (NTU)
3:26	20.75	7.04	13.3	1.41	11.32	130
3:29	20.85	7.04	13.3	1.40	11.33	150
3:32	20.90	7.04	13.3	1.38	11.35	130
3:35	20.95	7.04	13.4	1.38	11.37	140

Notes: The EPA Method (EPA/540/S-95/504 April, 1996) suggests stabilization of field parameters for three successive readings:
+ or - 0.1 for pH
+ or - 3% for Specific Conductivity - SC
+ or - 10% for Dissolved Oxygen - DO

Readings taken at 3 minute intervals.

Comments:

Prepared by: R. McPeak
Date: 10/17/06
Reviewed by: P. Malumphy
Date: 10/17/06