ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

September 5, 2012

Ms. Kimberly Schaeffer
B & B Diversified Enterprises, Inc.

Certificate of Analysis

Project Name:	**Friends Hospital (08-029(F))**	Workorder:	**9985825**
Purchase Order:		Workorder ID:	**Friends Hospital (08-029(F))**

Dear Ms. Schaeffer,

Enclosed are the analytical results for samples received by the laboratory on Wednesday, August 29, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

CC: Mr. Mark Bedle

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

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SAMPLE SUMMARY

Workorder: 9985825 Friends Hospital (08-029(F)) Discard Date: 09/19/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9985825001	MW-1	Ground Water	8/28/12 12:20	8/29/12 21:00	Customer
9985825002	MW-3	Ground Water	8/28/12 11:50	8/29/12 21:00	Customer
9985825003	Oil/Water Sump	Ground Water	8/27/12 11:50	8/29/12 21:00	Customer
9985825004	Discharge Pipe	Ground Water	8/27/12 11:40	8/29/12 21:00	Customer
9985825005	Manhole	Ground Water	8/27/12 14:10	8/29/12 21:00	Customer
9985825006	Stream	Ground Water	8/27/12 14:00	8/29/12 21:00	Customer
9985825007	Basement Floor	Ground Water	8/27/12 14:20	8/29/12 21:00	Customer

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as “analyze immediately” require analysis within 15 minutes of collection. Any “analyze immediately” parameters not listed under the header “Field Parameters” are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9985825 Friends Hospital (08-029(F))

Lab ID: **9985825001** Date Collected: 8/28/2012 12:20 Matrix: Ground Water

Sample ID: **MW-1** Date Received: 8/29/2012 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Chrysene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 04:23	CGS	A1
Phenanthrene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 04:23	CGS	A1
Pyrene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 04:23	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	72.1		%	50-110	SW846 8270D	8/31/12	FPM	9/5/12 04:23	CGS	A1
Nitrobenzene-d5 (S)	81.1		%	40-110	SW846 8270D	8/31/12	FPM	9/5/12 04:23	CGS	A1
Terphenyl-d14 (S)	81.3		%	50-122	SW846 8270D	8/31/12	FPM	9/5/12 04:23	CGS	A1

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9985825 Friends Hospital (08-029(F))

Lab ID: **9985825002** Date Collected: 8/28/2012 11:50 Matrix: Ground Water

Sample ID: **MW-3** Date Received: 8/29/2012 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Chrysene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 03:50	CGS	A1
Phenanthrene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 03:50	CGS	A1
Pyrene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 03:50	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	71.6		%	50-110	SW846 8270D	8/31/12	FPM	9/5/12 03:50	CGS	A1
Nitrobenzene-d5 (S)	73.2		%	40-110	SW846 8270D	8/31/12	FPM	9/5/12 03:50	CGS	A1
Terphenyl-d14 (S)	83.1		%	50-122	SW846 8270D	8/31/12	FPM	9/5/12 03:50	CGS	A1

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9985825 Friends Hospital (08-029(F))

Lab ID: **9985825003** Date Collected: 8/27/2012 11:50 Matrix: Ground Water

Sample ID: **Oil/Water Sump** Date Received: 8/29/2012 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Chrysene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 01:44	CGS	A1
Phenanthrene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 01:44	CGS	A1
Pyrene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 01:44	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	59.9		%	50-110	SW846 8270D	8/31/12	FPM	9/5/12 01:44	CGS	A1
Nitrobenzene-d5 (S)	59.1		%	40-110	SW846 8270D	8/31/12	FPM	9/5/12 01:44	CGS	A1
Terphenyl-d14 (S)	77.5		%	50-122	SW846 8270D	8/31/12	FPM	9/5/12 01:44	CGS	A1

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9985825 Friends Hospital (08-029(F))

Lab ID: **9985825004** Date Collected: 8/27/2012 11:40 Matrix: Ground Water

Sample ID: **Discharge Pipe** Date Received: 8/29/2012 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Chrysene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 00:40	CGS	A1
Phenanthrene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 00:40	CGS	A1
Pyrene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 00:40	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	72.3		%	50-110	SW846 8270D	8/31/12	FPM	9/5/12 00:40	CGS	A1
Nitrobenzene-d5 (S)	75.5		%	40-110	SW846 8270D	8/31/12	FPM	9/5/12 00:40	CGS	A1
Terphenyl-d14 (S)	89.6		%	50-122	SW846 8270D	8/31/12	FPM	9/5/12 00:40	CGS	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9985825 Friends Hospital (08-029(F))

Lab ID:	**9985825005**	Date Collected:	8/27/2012 14:10	Matrix:	Ground Water
Sample ID:	**Manhole**	Date Received:	8/29/2012 21:00		

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Chrysene	ND		ug/L	1.5	SW846 8270D	8/31/12	FPM	9/5/12 02:47	CGS	A1
Phenanthrene	ND		ug/L	1.5	SW846 8270D	8/31/12	FPM	9/5/12 02:47	CGS	A1
Pyrene	ND		ug/L	1.5	SW846 8270D	8/31/12	FPM	9/5/12 02:47	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	57.3		%	50-110	SW846 8270D	8/31/12	FPM	9/5/12 02:47	CGS	A1
Nitrobenzene-d5 (S)	57		%	40-110	SW846 8270D	8/31/12	FPM	9/5/12 02:47	CGS	A1
Terphenyl-d14 (S)	73.4		%	50-122	SW846 8270D	8/31/12	FPM	9/5/12 02:47	CGS	A1

Sample Comments:

One or more of the values for relative percent difference did not meet the quality control limits in the GC/MS semivolatile duplicate associated with this sample.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9985825 Friends Hospital (08-029(F))

Lab ID:	**9985825006**	Date Collected:	8/27/2012 14:00	Matrix:	Ground Water
Sample ID:	**Stream**	Date Received:	8/29/2012 21:00		

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Chrysene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 02:15	CGS	A1
Phenanthrene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 02:15	CGS	A1
Pyrene	ND		ug/L	1.4	SW846 8270D	8/31/12	FPM	9/5/12 02:15	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	66		%	50-110	SW846 8270D	8/31/12	FPM	9/5/12 02:15	CGS	A1
Nitrobenzene-d5 (S)	70.7		%	40-110	SW846 8270D	8/31/12	FPM	9/5/12 02:15	CGS	A1
Terphenyl-d14 (S)	84.8		%	50-122	SW846 8270D	8/31/12	FPM	9/5/12 02:15	CGS	A1

Sample Comments:

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Technical Manager

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ANALYTICAL RESULTS

Workorder: 9985825 Friends Hospital (08-029(F))

Lab ID:	**9985825007**	Date Collected:	8/27/2012 14:20	Matrix:	Ground Water
Sample ID:	**Basement Floor**	Date Received:	8/29/2012 21:00		

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Chrysene	97.6		ug/L	71.4	SW846 8270D	8/31/12	FPM	9/5/12 04:54	CGS	A1
Phenanthrene	248		ug/L	71.4	SW846 8270D	8/31/12	FPM	9/5/12 04:54	CGS	A1
Pyrene	204		ug/L	71.4	SW846 8270D	8/31/12	FPM	9/5/12 04:54	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	0	2	%	50-110	SW846 8270D	8/31/12	FPM	9/5/12 04:54	CGS	A1
Nitrobenzene-d5 (S)	295	1	%	40-110	SW846 8270D	8/31/12	FPM	9/5/12 04:54	CGS	A1
Terphenyl-d14 (S)	0	3	%	50-122	SW846 8270D	8/31/12	FPM	9/5/12 04:54	CGS	A1

Sample Comments:

This sample was analyzed at a dilution in the 8270 analysis due to sample matrix interference. Reporting limits were adjusted accordingly. One or more of the surrogates could not be evaluated as a result of the dilution.

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9985825 Friends Hospital (08-029(F))

PARAMETER QUALIFIERS\FLAGS

[1] The surrogate Nitrobenzene-d5 for method SW846 8270D was outside of control limits. The % Recovery was reported as 295 and the control limits were 40 to 110. This result was reported at a dilution of 10.

[2] The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 0 and the control limits were 50 to 110. This result was reported at a dilution of 10.

[3] The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 0 and the control limits were 50 to 122. This result was reported at a dilution of 10.

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page ___ of ___
Courier:
Tracking #:

* 9 9 8 5 8 2 5 *

Co. Name: B+B Diversified Enterprises, Inc
Contact (Report to): Mark Bedle
Phone: 610-845-0640
Address: PO Box 16, Barto, PA 19504

Bill to (if different than Report to): USTIF Claim # 08-029(F) PO#:
ICF/Attention: Ron Moore

Project Name/#: Friends Hospital (08-029(F)) ALS Quote #:

TAT: [X] Normal-Standard TAT is 10 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required:
Approved By:

Email? [X] Y mbedle@bbde.com
Fax? [ ] Y No.:

***Container Type	A	G
***Container Size	1L	40ml
***Preservative	—	HCL

JS 8/30/12

ANALYSES/METHOD REQUESTED: PA #6 Fuel Oil SVOC's (Short list)

Enter Number of Containers Per Analysis

#	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix		
1	MW-1		8/28/12	1220	G	GW	2	2
2	MW-3		8/28/12	1150	↓	↓	↓	↓
3	Oil/Water Sump		8/27/12	1150	↓	↓	↓	↓
4	Discharge Pipe		↓	1140	↓	↓	↓	↓
5	manhole		↓	1410	↓	↓	↓	↓
6	stream		↓	1400	↓	↓	↓	↓
7	Basement Floor		↓	1420	↓	↓	↓	↓
8								

(completed by Sample Receiving) Performed by: [signature]
Cooler Temp:
Therm. ID: [illegible]
No. of Coolers:
Notes:

Correct containers?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Volatiles?	Y	N
Circle appropriate Y or N.		
Custody seals Present?	Y	N
(if present) Seals intact?	Y	N
Received on Ice?	Y	N
COC/Labels complete/accurate?	Y	N
Container in good condition?	Y	N

SAMPLED BY (Please Print): Chris Seachrist
LOGGED BY (signature): [signature] DATE: 8/31/12 TIME: 1020
REVIEWED BY (signature):

#	Relinquished By / Company Name	Date	Time	#	Received By / Company Name	Date	Time
1	[signature] / B+B	8/28/12	1400	2	Christian Fluhr	8/29	1430
3	Christian Fluhr	8/29		4	[signature]	8/29	1910
5	[signature]	8/29	2100	6	[signature]	8/29	2100
7				8			
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] Other
EDDs Required? [ ] If yes, format type: Other
DOD Criteria Required?

SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [X]

ALS FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY Rev 6/2011