HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Friday, April 15, 2011

Pamela Moss
Shaw Environmental, Inc.
7604 Technology Way, Suite 300
Denver, CO 80237

TEL: (720) 554-8252
FAX

RE: KAFB BFF

Order No.: 1104032

Dear Pamela Moss:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 4/1/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106046IDW1
Lab Order:	1104032	**Collection Date:**	4/1/2011 3:07:00 PM
Project:	KAFB BFF	**Date Received:**	4/1/2011
Lab ID:	1104032-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8081: PESTICIDES TCLP						Analyst: **JDC**
Chlordane	ND	0.030		mg/L	1	4/12/2011 11:19:05 PM
Endrin	ND	0.020		mg/L	1	4/12/2011 11:19:05 PM
gamma-BHC (Lindane)	ND	0.40		mg/L	1	4/12/2011 11:19:05 PM
Heptachlor	ND	0.0080		mg/L	1	4/12/2011 11:19:05 PM
Heptachlor epoxide	ND	0.0080		mg/L	1	4/12/2011 11:19:05 PM
Methoxychlor	ND	10		mg/L	1	4/12/2011 11:19:05 PM
Toxaphene	ND	0.50		mg/L	1	4/12/2011 11:19:05 PM
Surr: Decachlorobiphenyl	90.1	39-142		%REC	1	4/12/2011 11:19:05 PM
Surr: Tetrachloro-m-xylene	103	38.7-136		%REC	1	4/12/2011 11:19:05 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	17	10		mg/Kg	1	4/6/2011 5:58:49 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/6/2011 5:58:49 PM
Surr: DNOP	93.3	81.8-129		%REC	1	4/6/2011 5:58:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 4:08:27 PM
Surr: BFB	103	89.7-125		%REC	1	4/6/2011 4:08:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	4/6/2011 4:08:27 PM
Benzene	ND	0.050		mg/Kg	1	4/6/2011 4:08:27 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 4:08:27 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 4:08:27 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 4:08:27 PM
Surr: 4-Bromofluorobenzene	120	85.3-139		%REC	1	4/6/2011 4:08:27 PM
MERCURY, TCLP						Analyst: **TES**
Mercury	ND	0.020		mg/L	1	4/12/2011 5:24:52 PM
EPA METHOD 6010B: TCLP METALS						Analyst: **RAGS**
Arsenic	ND	5.0		mg/L	1	4/13/2011 9:23:37 AM
Barium	ND	100		mg/L	1	4/13/2011 9:23:37 AM
Cadmium	ND	1.0		mg/L	1	4/13/2011 9:23:37 AM
Chromium	ND	5.0		mg/L	1	4/13/2011 9:23:37 AM
Lead	ND	5.0		mg/L	1	4/13/2011 9:23:37 AM
Selenium	ND	1.0		mg/L	1	4/13/2011 9:23:37 AM
Silver	ND	5.0		mg/L	1	4/13/2011 9:23:37 AM
EPA METHOD 8270C TCLP						Analyst: **JDC**
2,4-Dinitrotoluene	ND	0.13		mg/L	1	4/14/2011 12:08:14 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-11*

CLIENT: Shaw Environmental, Inc.
Lab Order: 1104032
Project: KAFB BFF
Lab ID: 1104032-01

Client Sample ID: 106046IDW1
Collection Date: 4/1/2011 3:07:00 PM
Date Received: 4/1/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C TCLP						Analyst: **JDC**
Hexachlorobenzene	ND	0.13		mg/L	1	4/14/2011 12:08:14 PM
Hexachlorobutadiene	ND	0.50		mg/L	1	4/14/2011 12:08:14 PM
Hexachloroethane	ND	3.0		mg/L	1	4/14/2011 12:08:14 PM
Nitrobenzene	ND	2.0		mg/L	1	4/14/2011 12:08:14 PM
Pentachlorophenol	ND	100		mg/L	1	4/14/2011 12:08:14 PM
Pyridine	ND	5.0		mg/L	1	4/14/2011 12:08:14 PM
2,4,5-Trichlorophenol	ND	400		mg/L	1	4/14/2011 12:08:14 PM
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	4/14/2011 12:08:14 PM
Cresols, Total	ND	200		mg/L	1	4/14/2011 12:08:14 PM
Surr: 2,4,6-Tribromophenol	73.7	19-95.3		%REC	1	4/14/2011 12:08:14 PM
Surr: 2-Fluorobiphenyl	76.4	41.4-108		%REC	1	4/14/2011 12:08:14 PM
Surr: 2-Fluorophenol	61.0	23-93.5		%REC	1	4/14/2011 12:08:14 PM
Surr: 4-Terphenyl-d14	72.4	42-141		%REC	1	4/14/2011 12:08:14 PM
Surr: Nitrobenzene-d5	75.7	46.9-108		%REC	1	4/14/2011 12:08:14 PM
Surr: Phenol-d5	51.8	26.4-66.4		%REC	1	4/14/2011 12:08:14 PM
VOLATILES BY 8260B/1311						Analyst: **MMS**
Benzene	ND	0.50		mg/L	1	4/14/2011 4:01:21 AM
2-Butanone	ND	10		mg/L	1	4/14/2011 4:01:21 AM
Carbon Tetrachloride	ND	0.50		mg/L	1	4/14/2011 4:01:21 AM
Chlorobenzene	ND	100		mg/L	1	4/14/2011 4:01:21 AM
Chloroform	ND	6.0		mg/L	1	4/14/2011 4:01:21 AM
1,4-Dichlorobenzene	ND	7.5		mg/L	1	4/14/2011 4:01:21 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	4/14/2011 4:01:21 AM
1,1-Dichloroethene	ND	0.70		mg/L	1	4/14/2011 4:01:21 AM
Hexachlorobutadiene	ND	0.50		mg/L	1	4/14/2011 4:01:21 AM
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	4/14/2011 4:01:21 AM
Trichloroethene (TCE)	ND	0.50		mg/L	1	4/14/2011 4:01:21 AM
Vinyl chloride	ND	0.20		mg/L	1	4/14/2011 4:01:21 AM
Surr: 1,2-Dichloroethane-d4	95.0	69.9-130		%REC	1	4/14/2011 4:01:21 AM
Surr: 4-Bromofluorobenzene	109	71.2-123		%REC	1	4/14/2011 4:01:21 AM
Surr: Dibromofluoromethane	99.1	73.9-134		%REC	1	4/14/2011 4:01:21 AM
Surr: Toluene-d8	103	81.9-122		%REC	1	4/14/2011 4:01:21 AM
EPA METHOD 8151: HERBICIDES TCLP						Analyst: **ANTE**
2,4,5-TP (Silvex)	ND	0.10		mg/L	1	4/11/2011
2,4-D	ND	0.10		mg/L	1	4/11/2011
CORROSIVITY						Analyst: **ANTE**
pH	8.2	0.10		pH Units	1	4/13/2011

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Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106046IDW1
Lab Order:	1104032	**Collection Date:**	4/1/2011 3:07:00 PM
Project:	KAFB BFF	**Date Received:**	4/1/2011
Lab ID:	1104032-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
IGNITABILITY METHOD 1010						Analyst: **ANTE**
Ignitability	Negative			°F	1	4/11/2011
CYANIDE, REACTIVE						Analyst: **ANTE**
Reactive Cyanide	ND	10		mg/Kg	1	4/13/2011
SULFIDE, REACTIVE						Analyst: **ANTE**
Reactive Sulfide	ND	15		mg/Kg	1	4/13/2011

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Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-11*

CLIENT: Shaw Environmental, Inc.
Lab Order: 1104032
Project: KAFB BFF
Lab ID: 1104032-02

Client Sample ID: 106062WW1
Collection Date: 4/1/2011 3:00:00 PM
Date Received: 4/1/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/5/2011 3:00:32 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/5/2011 3:00:32 AM
Surr: DNOP	121	97.7-132		%REC	1	4/5/2011 3:00:32 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/11/2011 2:55:33 PM
Surr: BFB	104	79.4-132		%REC	1	4/11/2011 2:55:33 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Lead	ND	0.0050		mg/L	1	4/6/2011 9:10:45 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Acenaphthylene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Aniline	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Anthracene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Azobenzene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Benz(a)anthracene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Benzo(a)pyrene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Benzoic acid	ND	20		µg/L	1	4/5/2011 10:51:02 PM
Benzyl alcohol	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	4/5/2011 10:51:02 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Butyl benzyl phthalate	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Carbazole	ND	10		µg/L	1	4/5/2011 10:51:02 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	4/5/2011 10:51:02 PM
4-Chloroaniline	ND	10		µg/L	1	4/5/2011 10:51:02 PM
2-Chloronaphthalene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
2-Chlorophenol	ND	10		µg/L	1	4/5/2011 10:51:02 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Chrysene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Di-n-butyl phthalate	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Di-n-octyl phthalate	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Dibenzofuran	ND	10		µg/L	1	4/5/2011 10:51:02 PM

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Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-11*

CLIENT: Shaw Environmental, Inc.
Lab Order: 1104032
Project: KAFB BFF
Lab ID: 1104032-02

Client Sample ID: 106062WW1
Collection Date: 4/1/2011 3:00:00 PM
Date Received: 4/1/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
1,2-Dichlorobenzene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Diethyl phthalate	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Dimethyl phthalate	ND	10		µg/L	1	4/5/2011 10:51:02 PM
2,4-Dichlorophenol	ND	20		µg/L	1	4/5/2011 10:51:02 PM
2,4-Dimethylphenol	ND	10		µg/L	1	4/5/2011 10:51:02 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	4/5/2011 10:51:02 PM
2,4-Dinitrophenol	ND	20		µg/L	1	4/5/2011 10:51:02 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Fluoranthene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Fluorene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Hexachlorobenzene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Hexachlorobutadiene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Hexachloroethane	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Isophorone	ND	10		µg/L	1	4/5/2011 10:51:02 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
2-Methylphenol	ND	10		µg/L	1	4/5/2011 10:51:02 PM
3+4-Methylphenol	ND	10		µg/L	1	4/5/2011 10:51:02 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/5/2011 10:51:02 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/5/2011 10:51:02 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Naphthalene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
2-Nitroaniline	ND	10		µg/L	1	4/5/2011 10:51:02 PM
3-Nitroaniline	ND	10		µg/L	1	4/5/2011 10:51:02 PM
4-Nitroaniline	ND	20		µg/L	1	4/5/2011 10:51:02 PM
Nitrobenzene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
2-Nitrophenol	ND	10		µg/L	1	4/5/2011 10:51:02 PM
4-Nitrophenol	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Pentachlorophenol	ND	20		µg/L	1	4/5/2011 10:51:02 PM
Phenanthrene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Phenol	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Pyrene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
Pyridine	ND	10		µg/L	1	4/5/2011 10:51:02 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/5/2011 10:51:02 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/5/2011 10:51:02 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/5/2011 10:51:02 PM

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CLIENT: Shaw Environmental, Inc.
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Project: KAFB BFF
Lab ID: 1104032-02

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Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Surr: 2,4,6-Tribromophenol	72.9	17.5-104		%REC	1	4/5/2011 10:51:02 PM
Surr: 2-Fluorobiphenyl	68.1	30.9-98.9		%REC	1	4/5/2011 10:51:02 PM
Surr: 2-Fluorophenol	58.1	12.4-90.1		%REC	1	4/5/2011 10:51:02 PM
Surr: 4-Terphenyl-d14	68.6	43.5-91.9		%REC	1	4/5/2011 10:51:02 PM
Surr: Nitrobenzene-d5	71.0	26.2-108		%REC	1	4/5/2011 10:51:02 PM
Surr: Phenol-d5	43.7	11.8-73.1		%REC	1	4/5/2011 10:51:02 PM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Toluene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Ethylbenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Naphthalene	ND	2.0		µg/L	1	4/8/2011 6:29:57 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/8/2011 6:29:57 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/8/2011 6:29:57 AM
Acetone	ND	10		µg/L	1	4/8/2011 6:29:57 AM
Bromobenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Bromoform	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Bromomethane	ND	3.0		µg/L	1	4/8/2011 6:29:57 AM
2-Butanone	ND	10		µg/L	1	4/8/2011 6:29:57 AM
Carbon disulfide	ND	10		µg/L	1	4/8/2011 6:29:57 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Chlorobenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Chloroethane	ND	2.0		µg/L	1	4/8/2011 6:29:57 AM
Chloroform	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Chloromethane	ND	3.0		µg/L	1	4/8/2011 6:29:57 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/8/2011 6:29:57 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Dibromomethane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM

Qualifiers:

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- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-11*

CLIENT: Shaw Environmental, Inc.
Lab Order: 1104032
Project: KAFB BFF
Lab ID: 1104032-02

Client Sample ID: 106062WW1
Collection Date: 4/1/2011 3:00:00 PM
Date Received: 4/1/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/8/2011 6:29:57 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
2-Hexanone	ND	10		µg/L	1	4/8/2011 6:29:57 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/8/2011 6:29:57 AM
Methylene Chloride	ND	3.0		µg/L	1	4/8/2011 6:29:57 AM
n-Butylbenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Styrene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/8/2011 6:29:57 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/8/2011 6:29:57 AM
Vinyl chloride	ND	1.0		µg/L	1	4/8/2011 6:29:57 AM
Xylenes, Total	ND	1.5		µg/L	1	4/8/2011 6:29:57 AM
Surr: 1,2-Dichloroethane-d4	102	65.8-138		%REC	1	4/8/2011 6:29:57 AM
Surr: 4-Bromofluorobenzene	112	72.7-128		%REC	1	4/8/2011 6:29:57 AM
Surr: Dibromofluoromethane	105	69-135		%REC	1	4/8/2011 6:29:57 AM
Surr: Toluene-d8	102	86.1-134		%REC	1	4/8/2011 6:29:57 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF **Work Order:** 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-26252		*MBLK*				Batch ID:	**26252**	Analysis Date:		4/6/2011 9:45:01 AM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-26252		*LCS*				Batch ID:	**26252**	Analysis Date:		4/6/2011 10:19:08 AM	
Diesel Range Organics (DRO)	48.66	mg/Kg	10	50	0	97.3	66.2	120			
Sample ID: LCSD-26252		*LCSD*				Batch ID:	**26252**	Analysis Date:		4/6/2011 10:53:19 AM	
Diesel Range Organics (DRO)	45.97	mg/Kg	10	50	0	91.9	66.2	120	5.69	14.3	
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-26228		*MBLK*				Batch ID:	**26228**	Analysis Date:		4/4/2011 5:55:57 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-26228		*LCS*				Batch ID:	**26228**	Analysis Date:		4/4/2011 6:30:03 PM	
Diesel Range Organics (DRO)	5.296	mg/L	1.0	5	0	106	74	157			
Sample ID: LCSD-26228		*LCSD*				Batch ID:	**26228**	Analysis Date:		4/4/2011 7:04:11 PM	
Diesel Range Organics (DRO)	6.054	mg/L	1.0	5	0	121	74	157	13.4	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1104032-01AMSD		*MSD*				Batch ID:	**26239**	Analysis Date:		4/6/2011 5:35:21 PM	
Gasoline Range Organics (GRO)	25.14	mg/Kg	5.0	25	0	101	57.7	165	4.43	15.5	
Sample ID: MB-26239		*MBLK*				Batch ID:	**26239**	Analysis Date:		4/6/2011 7:59:54 PM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-26239		*LCS*				Batch ID:	**26239**	Analysis Date:		4/6/2011 6:04:17 PM	
Gasoline Range Organics (GRO)	25.56	mg/Kg	5.0	25	0	102	88.8	124			
Sample ID: 1104032-01AMS		*MS*				Batch ID:	**26239**	Analysis Date:		4/6/2011 5:06:21 PM	
Gasoline Range Organics (GRO)	24.05	mg/Kg	5.0	25	0	96.2	57.7	165			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R44671**	Analysis Date:		4/11/2011 8:54:24 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R44671**	Analysis Date:		4/11/2011 6:56:16 PM	
Gasoline Range Organics (GRO)	0.4906	mg/L	0.050	0.5	0	98.1	81.8	120			
Sample ID: 2.5UG GRO LCSD		*LCSD*				Batch ID:	**R44671**	Analysis Date:		4/11/2011 7:26:20 PM	
Gasoline Range Organics (GRO)	0.5310	mg/L	0.050	0.5	0	106	81.8	120	7.91	17.1	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF

Work Order: 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-26239		*MBLK*				Batch ID:	**26239**	Analysis Date:	4/6/2011 7:59:54 PM		
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-26239		*LCS*				Batch ID:	**26239**	Analysis Date:	4/6/2011 7:31:02 PM		
Methyl tert-butyl ether (MTBE)	0.8871	mg/Kg	0.10	1	0	88.7	65.5	229			
Benzene	0.8715	mg/Kg	0.050	1	0.0041	86.7	83.3	107			
Toluene	0.8887	mg/Kg	0.050	1	0	88.9	74.3	115			
Ethylbenzene	0.9217	mg/Kg	0.050	1	0	92.2	80.9	122			
Xylenes, Total	2.769	mg/Kg	0.10	3	0	92.3	85.2	123			
Method: EPA Method 8081: Pesticides TCLP											
Sample ID: MB-26343		*MBLK*				Batch ID:	**26343**	Analysis Date:	4/12/2011 10:27:25 PM		
Chlordane	ND	mg/L	0.030								
Endrin	ND	mg/L	0.020								
gamma-BHC (Lindane)	ND	mg/L	0.40								
Heptachlor	ND	mg/L	0.0080								
Heptachlor epoxide	ND	mg/L	0.0080								
Methoxychlor	ND	mg/L	10								
Toxaphene	ND	mg/L	0.50								
Sample ID: LCS-26343		*LCS*				Batch ID:	**26343**	Analysis Date:	4/12/2011 10:44:41 PM		
Endrin	0.0005690	mg/L	0.00010	0.0005	0	114	40.1	129			
gamma-BHC (Lindane)	0.0005220	mg/L	0.00010	0.0005	0	104	35.7	132			
Heptachlor	0.0004650	mg/L	0.00010	0.0005	0	93.0	32.8	124			
Heptachlor epoxide	0.0005610	mg/L	0.00010	0.0005	0	112	35.9	131			
Methoxychlor	0.0005050	mg/L	0.00010	0.0005	0	101	45.5	128			
Method: EPA Method 8151: Herbicides TCLP											
Sample ID: MB-R44765		*MBLK*				Batch ID:	**R44765**	Analysis Date:		4/11/2011	
2,4,5-TP (Silvex)	ND	mg/L	0.10								
2,4-D	ND	mg/L	0.10								
Sample ID: LCS-R44765		*LCS*				Batch ID:	**R44765**	Analysis Date:		4/11/2011	
2,4,5-TP (Silvex)	0.002050	mg/L	0.0010	0.003	0	82.0	50	150			
2,4-D	0.008880	mg/L	0.0010	0.01	0	88.8	50	150			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF

Work Order: 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b2		*MBLK*				Batch ID:	**R44605**	Analysis Date:		4/7/2011 8:46:31 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF

Work Order: 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b2		*MBLK*				Batch ID:	**R44605**	Analysis Date:		4/7/2011 8:46:31 AM	
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: b7		*MBLK*				Batch ID:	**R44605**	Analysis Date:		4/7/2011 8:05:38 PM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF
Work Order: 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b7		*MBLK*					Batch ID: **R44605**	Analysis Date:	4/7/2011 8:05:38 PM		
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100ng lcs		*LCS*					Batch ID: **R44605**	Analysis Date:	4/7/2011 9:38:43 AM		

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF **Work Order:** 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R44605**	Analysis Date:		4/7/2011 9:38:43 AM	
Benzene	19.76	µg/L	1.0	20	0	98.8	85.2	121			
Toluene	17.14	µg/L	1.0	20	0	85.7	88.3	121			S
Chlorobenzene	17.25	µg/L	1.0	20	0	86.2	91.9	110			S
1,1-Dichloroethene	21.35	µg/L	1.0	20	0	107	91.5	134			
Trichloroethene (TCE)	18.54	µg/L	1.0	20	0	92.7	78.3	102			
Sample ID: 100ng lcs2		*LCS*				Batch ID:	**R44605**	Analysis Date:		4/7/2011 8:57:27 PM	
Benzene	19.87	µg/L	1.0	20	0	99.4	85.2	121			
Toluene	17.96	µg/L	1.0	20	0.342	88.1	88.3	121			S
Chlorobenzene	17.84	µg/L	1.0	20	0	89.2	91.9	110			S
1,1-Dichloroethene	21.10	µg/L	1.0	20	0	106	91.5	134			
Trichloroethene (TCE)	18.58	µg/L	1.0	20	0	92.9	78.3	102			
Method: Volatiles by 8260B/1311											
Sample ID: mb-26289		*MBLK*				Batch ID:	**26289**	Analysis Date:		4/14/2011 1:12:28 AM	
Benzene	ND	mg/L	0.50								
2-Butanone	ND	mg/L	10								
Carbon Tetrachloride	ND	mg/L	0.50								
Chlorobenzene	ND	mg/L	100								
Chloroform	ND	mg/L	6.0								
1,4-Dichlorobenzene	ND	mg/L	7.5								
1,2-Dichloroethane (EDC)	ND	mg/L	0.50								
1,1-Dichloroethene	ND	mg/L	0.70								
Hexachlorobutadiene	ND	mg/L	0.50								
Tetrachloroethene (PCE)	ND	mg/L	0.70								
Trichloroethene (TCE)	ND	mg/L	0.50								
Vinyl chloride	ND	mg/L	0.20								
Sample ID: lcs-26289		*LCS*				Batch ID:	**26289**	Analysis Date:		4/14/2011 1:40:42 AM	
Benzene	ND	mg/L	0.50	0.4	0	103	51.1	171			
Chlorobenzene	ND	mg/L	100	0.4	0	93.9	36.1	191			
1,1-Dichloroethene	ND	mg/L	0.70	0.4	0	111	49.1	162			
Trichloroethene (TCE)	ND	mg/L	0.50	0.4	0	94.0	41.2	166			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF

Work Order: 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-26249		*MBLK*				Batch ID:	**26249**	Analysis Date:		4/5/2011 8:52:27 PM	
Acenaphthene	ND	µg/L	10								
Acenaphthylene	ND	µg/L	10								
Aniline	ND	µg/L	10								
Anthracene	ND	µg/L	10								
Azobenzene	ND	µg/L	10								
Benz(a)anthracene	ND	µg/L	10								
Benzo(a)pyrene	ND	µg/L	10								
Benzo(b)fluoranthene	ND	µg/L	10								
Benzo(g,h,i)perylene	ND	µg/L	10								
Benzo(k)fluoranthene	ND	µg/L	10								
Benzoic acid	ND	µg/L	20								
Benzyl alcohol	ND	µg/L	10								
Bis(2-chloroethoxy)methane	ND	µg/L	10								
Bis(2-chloroethyl)ether	ND	µg/L	10								
Bis(2-chloroisopropyl)ether	ND	µg/L	10								
Bis(2-ethylhexyl)phthalate	ND	µg/L	10								
4-Bromophenyl phenyl ether	ND	µg/L	10								
Butyl benzyl phthalate	ND	µg/L	10								
Carbazole	ND	µg/L	10								
4-Chloro-3-methylphenol	ND	µg/L	10								
4-Chloroaniline	ND	µg/L	10								
2-Chloronaphthalene	ND	µg/L	10								
2-Chlorophenol	ND	µg/L	10								
4-Chlorophenyl phenyl ether	ND	µg/L	10								
Chrysene	ND	µg/L	10								
Di-n-butyl phthalate	ND	µg/L	10								
Di-n-octyl phthalate	ND	µg/L	10								
Dibenz(a,h)anthracene	ND	µg/L	10								
Dibenzofuran	ND	µg/L	10								
1,2-Dichlorobenzene	ND	µg/L	10								
1,3-Dichlorobenzene	ND	µg/L	10								
1,4-Dichlorobenzene	ND	µg/L	10								
3,3'-Dichlorobenzidine	ND	µg/L	10								
Diethyl phthalate	ND	µg/L	10								
Dimethyl phthalate	ND	µg/L	10								
2,4-Dichlorophenol	ND	µg/L	20								
2,4-Dimethylphenol	ND	µg/L	10								
4,6-Dinitro-2-methylphenol	ND	µg/L	20								
2,4-Dinitrophenol	ND	µg/L	20								
2,4-Dinitrotoluene	ND	µg/L	10								
2,6-Dinitrotoluene	ND	µg/L	10								
Fluoranthene	ND	µg/L	10								
Fluorene	ND	µg/L	10								
Hexachlorobenzene	ND	µg/L	10								

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF **Work Order:** 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-26249		*MBLK*				Batch ID:	**26249**	Analysis Date:		4/5/2011 8:52:27 PM	
Hexachlorobutadiene	ND	µg/L	10								
Hexachlorocyclopentadiene	ND	µg/L	10								
Hexachloroethane	ND	µg/L	10								
Indeno(1,2,3-cd)pyrene	ND	µg/L	10								
Isophorone	ND	µg/L	10								
2-Methylnaphthalene	ND	µg/L	10								
2-Methylphenol	ND	µg/L	10								
3+4-Methylphenol	ND	µg/L	10								
N-Nitrosodi-n-propylamine	ND	µg/L	10								
N-Nitrosodimethylamine	ND	µg/L	10								
N-Nitrosodiphenylamine	ND	µg/L	10								
Naphthalene	ND	µg/L	10								
2-Nitroaniline	ND	µg/L	10								
3-Nitroaniline	ND	µg/L	10								
4-Nitroaniline	ND	µg/L	20								
Nitrobenzene	ND	µg/L	10								
2-Nitrophenol	ND	µg/L	10								
4-Nitrophenol	ND	µg/L	10								
Pentachlorophenol	ND	µg/L	20								
Phenanthrene	ND	µg/L	10								
Phenol	ND	µg/L	10								
Pyrene	ND	µg/L	10								
Pyridine	ND	µg/L	10								
1,2,4-Trichlorobenzene	ND	µg/L	10								
2,4,5-Trichlorophenol	ND	µg/L	10								
2,4,6-Trichlorophenol	ND	µg/L	10								
Sample ID: lcs-26249		*LCS*				Batch ID:	**26249**	Analysis Date:		4/5/2011 9:22:11 PM	
Acenaphthene	79.36	µg/L	10	100	0	79.4	31	99.4			
4-Chloro-3-methylphenol	172.6	µg/L	10	200	0	86.3	34.3	111			
2-Chlorophenol	162.6	µg/L	10	200	0	81.3	24.1	98.7			
1,4-Dichlorobenzene	74.80	µg/L	10	100	0	74.8	20.6	85.6			
2,4-Dinitrotoluene	67.00	µg/L	10	100	0	67.0	26.6	126			
N-Nitrosodi-n-propylamine	83.74	µg/L	10	100	0	83.7	29.2	94.4			
4-Nitrophenol	85.08	µg/L	10	200	6.22	39.4	9.87	86			
Pentachlorophenol	169.5	µg/L	20	200	0	84.7	20	97.8			
Phenol	100.4	µg/L	10	200	0	50.2	17.5	60.5			
Pyrene	82.34	µg/L	10	100	0	82.3	46.8	92.2			
1,2,4-Trichlorobenzene	78.94	µg/L	10	100	0	78.9	25.2	92.3			
Sample ID: lcsd-26249		*LCSD*				Batch ID:	**26249**	Analysis Date:		4/5/2011 9:51:55 PM	
Acenaphthene	78.00	µg/L	10	100	0	78.0	31	99.4	1.73	30	
4-Chloro-3-methylphenol	185.9	µg/L	10	200	0	93.0	34.3	111	7.43	30.8	
2-Chlorophenol	147.5	µg/L	10	200	0	73.8	24.1	98.7	9.75	31	
1,4-Dichlorobenzene	66.70	µg/L	10	100	0	66.7	20.6	85.6	11.4	37	
2,4-Dinitrotoluene	63.64	µg/L	10	100	0	63.6	26.6	126	5.14	34.5	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF

Work Order: 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcsd-26249		*LCSD*				Batch ID:	**26249**	Analysis Date:		4/5/2011 9:51:55 PM	
N-Nitrosodi-n-propylamine	69.28	µg/L	10	100	0	69.3	29.2	94.4	18.9	30.8	
4-Nitrophenol	75.74	µg/L	10	200	6.22	34.8	9.87	86	11.6	61.1	
Pentachlorophenol	117.6	µg/L	20	200	0	58.8	20	97.8	36.2	64.8	
Phenol	93.26	µg/L	10	200	0	46.6	17.5	60.5	7.37	31.4	
Pyrene	63.18	µg/L	10	100	0	63.2	46.8	92.2	26.3	29.8	
1,2,4-Trichlorobenzene	70.04	µg/L	10	100	0	70.0	25.2	92.3	11.9	30.9	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF

Work Order: 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C TCLP											
Sample ID: 1104032-01Bmsd		*MSD*				Batch ID:	**26345**	Analysis Date:		4/14/2011 1:06:34 PM	
2,4-Dinitrotoluene	0.07310	mg/L	0.010	0.1	0	73.1	18.8	132	10.1	27.2	
Hexachlorobenzene	0.06840	mg/L	0.010	0.1	0	68.4	23.2	85.1	6.99	23	
Hexachlorobutadiene	0.06752	mg/L	0.010	0.1	0	67.5	19.4	95.4	0.885	21.6	
Hexachloroethane	0.07750	mg/L	0.010	0.1	0	77.5	21.2	93.4	0.258	30	
Nitrobenzene	0.08174	mg/L	0.010	0.1	0	81.7	26.6	104	4.53	23.4	
Pentachlorophenol	0.05714	mg/L	0.010	0.1	0	57.1	10	91.1	12.3	58.6	
Pyridine	0.04950	mg/L	0.010	0.1	0	49.5	4.93	76.8	8.36	35.4	
2,4,5-Trichlorophenol	0.06844	mg/L	0.010	0.1	0	68.4	10	105	6.74	58.3	
2,4,6-Trichlorophenol	0.06088	mg/L	0.010	0.1	0	60.9	9.42	99.5	4.50	57.7	
Cresols, Total	0.2348	mg/L	0.010	0.3	0	78.3	17.9	97.2	7.35	25.4	
Sample ID: mb-26345		*MBLK*				Batch ID:	**26345**	Analysis Date:		4/14/2011 11:09:57 AM	
2,4-Dinitrotoluene	ND	mg/L	0.13								
Hexachlorobenzene	ND	mg/L	0.13								
Hexachlorobutadiene	ND	mg/L	0.50								
Hexachloroethane	ND	mg/L	3.0								
Nitrobenzene	ND	mg/L	2.0								
Pentachlorophenol	ND	mg/L	100								
Pyridine	ND	mg/L	5.0								
2,4,5-Trichlorophenol	ND	mg/L	400								
2,4,6-Trichlorophenol	ND	mg/L	2.0								
Cresols, Total	ND	mg/L	200								
Sample ID: lcs-26345		*LCS*				Batch ID:	**26345**	Analysis Date:		4/14/2011 11:39:06 AM	
2,4-Dinitrotoluene	0.07070	mg/L	0.010	0.1	0	70.7	21.5	129			
Hexachlorobenzene	0.06746	mg/L	0.010	0.1	0	67.5	26.2	83.3			
Hexachlorobutadiene	0.06416	mg/L	0.010	0.1	0	64.2	25.9	83.4			
Hexachloroethane	0.06980	mg/L	0.010	0.1	0	69.8	30.5	77.5			
Nitrobenzene	0.07976	mg/L	0.010	0.1	0	79.8	34.6	97.6			
Pentachlorophenol	0.05936	mg/L	0.010	0.1	0	59.4	13.3	88.7			
Pyridine	0.02874	mg/L	0.010	0.1	0	28.7	5.1	70.6			
2,4,5-Trichlorophenol	0.06466	mg/L	0.010	0.1	0	64.7	11.7	104			
2,4,6-Trichlorophenol	0.05862	mg/L	0.010	0.1	0	58.6	11.6	100			
Cresols, Total	0.2212	mg/L	0.010	0.3	0	73.7	29.6	87			
Sample ID: 1104032-01Bms		*MS*				Batch ID:	**26345**	Analysis Date:		4/14/2011 12:37:21 PM	
2,4-Dinitrotoluene	0.06604	mg/L	0.010	0.1	0	66.0	18.8	132			
Hexachlorobenzene	0.06378	mg/L	0.010	0.1	0	63.8	23.2	85.1			
Hexachlorobutadiene	0.06812	mg/L	0.010	0.1	0	68.1	19.4	95.4			
Hexachloroethane	0.07770	mg/L	0.010	0.1	0	77.7	21.2	93.4			
Nitrobenzene	0.07812	mg/L	0.010	0.1	0	78.1	26.6	104			
Pentachlorophenol	0.05054	mg/L	0.010	0.1	0	50.5	10	91.1			
Pyridine	0.05382	mg/L	0.010	0.1	0	53.8	4.93	76.8			
2,4,5-Trichlorophenol	0.06398	mg/L	0.010	0.1	0	64.0	10	105			
2,4,6-Trichlorophenol	0.05820	mg/L	0.010	0.1	0	58.2	9.42	99.5			
Cresols, Total	0.2182	mg/L	0.010	0.3	0	72.7	17.9	97.2			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
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QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF **Work Order:** 1104032

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: MERCURY, TCLP											
Sample ID: MB-26362		*MBLK*				Batch ID:	**26362**	Analysis Date:	4/12/2011 4:40:08 PM		
Mercury	ND	mg/L	0.020								
Sample ID: LCS-26362		*LCS*				Batch ID:	**26362**	Analysis Date:	4/12/2011 4:41:52 PM		
Mercury	ND	mg/L	0.020	0.005	0	102	80	120			
Method: EPA Method 6010B: TCLP Metals											
Sample ID: MB-26361		*MBLK*				Batch ID:	**26361**	Analysis Date:	4/13/2011 8:06:51 AM		
Arsenic	ND	mg/L	5.0								
Barium	ND	mg/L	100								
Cadmium	ND	mg/L	1.0								
Chromium	ND	mg/L	5.0								
Lead	ND	mg/L	5.0								
Selenium	ND	mg/L	1.0								
Silver	ND	mg/L	5.0								
Sample ID: LCS-26361		*LCS*				Batch ID:	**26361**	Analysis Date:	4/13/2011 8:09:15 AM		
Arsenic	ND	mg/L	5.0	0.5	0.0095	113	80	120			
Barium	ND	mg/L	100	0.5	0.0016	97.4	80	120			
Cadmium	ND	mg/L	1.0	0.5	0.0012	105	80	120			
Chromium	ND	mg/L	5.0	0.5	0.0025	98.1	80	120			
Lead	ND	mg/L	5.0	0.5	0.0022	93.5	80	120			
Silver	ND	mg/L	5.0	0.5	0.0022	103	80	120			
Method: CYANIDE, Reactive											
Sample ID: MB-R44765		*MBLK*				Batch ID:	**R44765**	Analysis Date:		4/13/2011	
Reactive Cyanide	ND	mg/Kg	10								
Sample ID: LCS-R44765		*LCS*				Batch ID:	**R44765**	Analysis Date:		4/13/2011	
Reactive Cyanide	0.4890	mg/Kg	0.10	0.5	0	97.8	70	130			
Method: SULFIDE, Reactive											
Sample ID: MB-R44765		*MBLK*				Batch ID:	**R44765**	Analysis Date:		4/13/2011	
Reactive Sulfide	ND	mg/Kg	10								
Sample ID: LCS-R44765		*LCS*				Batch ID:	**R44765**	Analysis Date:		4/13/2011	
Reactive Sulfide	0.1600	mg/Kg	0.10	0.2	0	80.0	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SHAW

Date Received: 4/1/2011

Work Order Number 1104032

Received by: AT

Sample ID labels checked by: MG (Initials)

Checklist completed by: [signature] (Signature) 04/01/11 (Date)

Matrix:

Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	

Number of preserved bottles checked for pH: 1

(<2) >12 unless noted below.

Container/Temp Blank temperature? **22.4°** *<6° C Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-IDW035

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time: 10 day

Samples Shipment Date: 01 APR 2011
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/Courier

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions: 10 day TAT

Possible Hazard Indentification: Radiological ☐
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☐ Archive (mos.)

1. Relinquished By (Signature/Affiliation) Kimberly Jones Kimberly Jones — Date: 4/1/11 Time: 1535
1. Received By (Signature/Affiliation) Michael Bauer — Date: 4/1/11 Time: 1535

2. Relinquished By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: 04/01/11 Time: 1604

3. Relinquished By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: 1 Rolloff and 1 WW

1104032 22.4°

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
106046IDW1	KAFB10646-SO-106046IDW1-REG	01 APR 2011	15:07	8 oz CWM	1	None except cool to 4 C	TCLP Metals by SW846 1311 6010B, TCLP Mercury by SW846 1311 7470A			N		
106046IDW1	KAFB10646-SO-106046IDW1-REG	01 APR 2011	15:07	8 oz CWM	1	None except cool to 4 C	TCLP Pesticides by SW846 1311 8081B, TCLP Herbicides by SW846 1311 8151A, TCLP VOCs by SW846 1311 8260B, TCLP SVOCs by SW846 1311 8270D			N		
106046IDW1	KAFB10646-SO-106046IDW1-REG	01 APR 2011	15:07	8 oz CWM	1	None except cool to 4 C	Reactivity, Corrosivity, and Ignitability by SW846 Chapter 7,7.3.4.2			N		
106046IDW1	KAFB10646-SO-106046IDW1-REG	01 APR 2011	15:07	4 oz CWM	1	None except cool to 4 C	TPH as Diesel by SW846 8015B, TPH as Gasoline by SW846 8015B, BTEX			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-IDW035

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
	1104032							by SW846 8021					
-2	106062WW1	KAFB10662-WW-106062WW1-REG	01 APR 2011	15:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-2	106062WW1	KAFB10662-WW-106062WW1-REG	01 APR 2011	15:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-2	106062WW1	KAFB10662-WW-106062WW1-REG	01 APR 2011	15:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-2	106062WW1	KAFB10662-WW-106062WW1-REG	01 APR 2011	15:00	1000 mL A GLASS	1	None except cool to 4 C	SVOCs by SW846 8270C			N		
-2	106062WW1	KAFB10662-WW-106062WW1-REG	01 APR 2011	15:00	500 mL HDPE	1	HNO3<pH 2	Lead only by SW846 6010C			N		