HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, February 21, 2011

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

TEL: (720) 554-8252
FAX

RE: KAFB BFF

Order No.: 1102163

Dear Pamela Moss:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 2/7/2011 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.

Reporting limits are determined by EPA methodology.

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: *21-Feb-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106109IDW2
Lab Order:	1102163	**Collection Date:**	2/7/2011 8:20:00 AM
Project:	KAFB BFF	**Date Received:**	2/7/2011
Lab ID:	1102163-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8081: PESTICIDES TCLP						Analyst: **JDC**
Chlordane	ND	0.030		mg/L	1	2/16/2011 2:07:55 PM
Endrin	ND	0.020		mg/L	1	2/16/2011 2:07:55 PM
gamma-BHC (Lindane)	ND	0.40		mg/L	1	2/16/2011 2:07:55 PM
Heptachlor	ND	0.0080		mg/L	1	2/16/2011 2:07:55 PM
Heptachlor epoxide	ND	0.0080		mg/L	1	2/16/2011 2:07:55 PM
Methoxychlor	ND	10		mg/L	1	2/16/2011 2:07:55 PM
Toxaphene	ND	0.50		mg/L	1	2/16/2011 2:07:55 PM
Surr: Decachlorobiphenyl	89.8	39-142		%REC	1	2/16/2011 2:07:55 PM
Surr: Tetrachloro-m-xylene	84.5	38.7-136		%REC	1	2/16/2011 2:07:55 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/12/2011 10:21:21 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/12/2011 10:21:21 PM
Surr: DNOP	110	81.8-129		%REC	1	2/12/2011 10:21:21 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2011 4:53:35 PM
Surr: BFB	85.6	89.7-125	S	%REC	1	2/9/2011 4:53:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	2/9/2011 4:53:35 PM
Benzene	ND	0.050		mg/Kg	1	2/9/2011 4:53:35 PM
Toluene	ND	0.050		mg/Kg	1	2/9/2011 4:53:35 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/9/2011 4:53:35 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/9/2011 4:53:35 PM
Surr: 4-Bromofluorobenzene	99.1	88.9-151		%REC	1	2/9/2011 4:53:35 PM
MERCURY, TCLP						Analyst: **ELS**
Mercury	ND	0.020		mg/L	1	2/16/2011 1:25:20 PM
EPA METHOD 6010B: TCLP METALS						Analyst: **RAGS**
Arsenic	ND	5.0		mg/L	1	2/17/2011 12:27:28 PM
Barium	ND	100		mg/L	1	2/17/2011 12:27:28 PM
Cadmium	ND	1.0		mg/L	1	2/17/2011 12:27:28 PM
Chromium	ND	5.0		mg/L	1	2/17/2011 12:27:28 PM
Lead	ND	5.0		mg/L	1	2/17/2011 12:27:28 PM
Selenium	ND	1.0		mg/L	1	2/17/2011 12:27:28 PM
Silver	ND	5.0		mg/L	1	2/17/2011 12:27:28 PM
EPA METHOD 8270C TCLP						Analyst: **JDC**
2,4-Dinitrotoluene	ND	0.13		mg/L	1	2/14/2011 11:52:18 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106109IDW2
Lab Order:	1102163	**Collection Date:**	2/7/2011 8:20:00 AM
Project:	KAFB BFF	**Date Received:**	2/7/2011
Lab ID:	1102163-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C TCLP						Analyst: **JDC**
Hexachlorobenzene	ND	0.13		mg/L	1	2/14/2011 11:52:18 AM
Hexachlorobutadiene	ND	0.50		mg/L	1	2/14/2011 11:52:18 AM
Hexachloroethane	ND	3.0		mg/L	1	2/14/2011 11:52:18 AM
Nitrobenzene	ND	2.0		mg/L	1	2/14/2011 11:52:18 AM
Pentachlorophenol	ND	100		mg/L	1	2/14/2011 11:52:18 AM
Pyridine	ND	5.0		mg/L	1	2/14/2011 11:52:18 AM
2,4,5-Trichlorophenol	ND	400		mg/L	1	2/14/2011 11:52:18 AM
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	2/14/2011 11:52:18 AM
Cresols, Total	ND	200		mg/L	1	2/14/2011 11:52:18 AM
Surr: 2,4,6-Tribromophenol	58.3	21.6-121		%REC	1	2/14/2011 11:52:18 AM
Surr: 2-Fluorobiphenyl	63.2	36.3-107		%REC	1	2/14/2011 11:52:18 AM
Surr: 2-Fluorophenol	39.3	7.63-90		%REC	1	2/14/2011 11:52:18 AM
Surr: 4-Terphenyl-d14	65.1	39-110		%REC	1	2/14/2011 11:52:18 AM
Surr: Nitrobenzene-d5	60.8	36.9-110		%REC	1	2/14/2011 11:52:18 AM
Surr: Phenol-d5	31.1	13.3-67.7		%REC	1	2/14/2011 11:52:18 AM
VOLATILES BY 8260B/1311						Analyst: **MMS**
Benzene	ND	0.50		mg/L	1	2/12/2011 2:37:51 PM
2-Butanone	ND	10		mg/L	1	2/12/2011 2:37:51 PM
Carbon Tetrachloride	ND	0.50		mg/L	1	2/12/2011 2:37:51 PM
Chlorobenzene	ND	100		mg/L	1	2/12/2011 2:37:51 PM
Chloroform	ND	6.0		mg/L	1	2/12/2011 2:37:51 PM
1,4-Dichlorobenzene	ND	7.5		mg/L	1	2/12/2011 2:37:51 PM
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	2/12/2011 2:37:51 PM
1,1-Dichloroethene	ND	0.70		mg/L	1	2/12/2011 2:37:51 PM
Hexachlorobutadiene	ND	0.50		mg/L	1	2/12/2011 2:37:51 PM
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	2/12/2011 2:37:51 PM
Trichloroethene (TCE)	ND	0.50		mg/L	1	2/12/2011 2:37:51 PM
Vinyl chloride	ND	0.20		mg/L	1	2/12/2011 2:37:51 PM
Surr: 1,2-Dichloroethane-d4	95.8	69.9-130		%REC	1	2/12/2011 2:37:51 PM
Surr: 4-Bromofluorobenzene	99.8	71.2-123		%REC	1	2/12/2011 2:37:51 PM
Surr: Dibromofluoromethane	116	73.9-134		%REC	1	2/12/2011 2:37:51 PM
Surr: Toluene-d8	99.6	81.9-122		%REC	1	2/12/2011 2:37:51 PM
EPA METHOD 8151: HERBICIDES TCLP						Analyst: **ANTE**
2,4,5-TP (Silvex)	ND	0.10		mg/L	1	2/16/2011
2,4-D	ND	0.10		mg/L	1	2/16/2011
CORROSIVITY						Analyst: **ANTE**
pH	8.2	0.10		pH Units	1	2/14/2011

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: *21-Feb-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106109IDW2
Lab Order:	1102163	**Collection Date:**	2/7/2011 8:20:00 AM
Project:	KAFB BFF	**Date Received:**	2/7/2011
Lab ID:	1102163-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
IGNITABILITY (SUBBED)						Analyst: **ANTE**
Ignitability	Negative			°F	1	2/16/2011
CYANIDE, REACTIVE						Analyst: **ANTE**
Reactive Cyanide	ND	10		mg/Kg	1	2/11/2011
SULFIDE, REACTIVE						Analyst: **ANTE**
Reactive Sulfide	ND	15		mg/Kg	1	2/15/2011

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-11*

CLIENT: Shaw Environmental, Inc.
Lab Order: 1102163
Project: KAFB BFF
Lab ID: 1102163-02

Client Sample ID: 106113IDW2
Collection Date: 2/7/2011 8:35:00 AM
Date Received: 2/7/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8081: PESTICIDES TCLP						Analyst: JDC
Chlordane	ND	0.030		mg/L	1	2/16/2011 2:59:43 PM
Endrin	ND	0.020		mg/L	1	2/16/2011 2:59:43 PM
gamma-BHC (Lindane)	ND	0.40		mg/L	1	2/16/2011 2:59:43 PM
Heptachlor	ND	0.0080		mg/L	1	2/16/2011 2:59:43 PM
Heptachlor epoxide	ND	0.0080		mg/L	1	2/16/2011 2:59:43 PM
Methoxychlor	ND	10		mg/L	1	2/16/2011 2:59:43 PM
Toxaphene	ND	0.50		mg/L	1	2/16/2011 2:59:43 PM
Surr: Decachlorobiphenyl	45.9	39-142		%REC	1	2/16/2011 2:59:43 PM
Surr: Tetrachloro-m-xylene	35.5	38.7-136	S	%REC	1	2/16/2011 2:59:43 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	14	10		mg/Kg	1	2/13/2011 12:00:18 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/13/2011 12:00:18 AM
Surr: DNOP	114	81.8-129		%REC	1	2/13/2011 12:00:18 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2011 5:25:30 PM
Surr: BFB	88.7	89.7-125	S	%REC	1	2/9/2011 5:25:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	2/9/2011 5:25:30 PM
Benzene	ND	0.050		mg/Kg	1	2/9/2011 5:25:30 PM
Toluene	ND	0.050		mg/Kg	1	2/9/2011 5:25:30 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/9/2011 5:25:30 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/9/2011 5:25:30 PM
Surr: 4-Bromofluorobenzene	102	88.9-151		%REC	1	2/9/2011 5:25:30 PM
MERCURY, TCLP						Analyst: ELS
Mercury	ND	0.020		mg/L	1	2/16/2011 1:27:11 PM
EPA METHOD 6010B: TCLP METALS						Analyst: RAGS
Arsenic	ND	5.0		mg/L	1	2/17/2011 12:39:23 PM
Barium	ND	100		mg/L	1	2/17/2011 12:39:23 PM
Cadmium	ND	1.0		mg/L	1	2/17/2011 12:39:23 PM
Chromium	ND	5.0		mg/L	1	2/17/2011 12:39:23 PM
Lead	ND	5.0		mg/L	1	2/17/2011 12:39:23 PM
Selenium	ND	1.0		mg/L	1	2/17/2011 12:39:23 PM
Silver	ND	5.0		mg/L	1	2/17/2011 12:39:23 PM
EPA METHOD 8270C TCLP						Analyst: JDC
2,4-Dinitrotoluene	ND	0.13		mg/L	1	2/14/2011 5:45:03 PM

Qualifiers:

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- 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: *21-Feb-11*

CLIENT: Shaw Environmental, Inc.
Lab Order: 1102163
Project: KAFB BFF
Lab ID: 1102163-02

Client Sample ID: 106113IDW2
Collection Date: 2/7/2011 8:35:00 AM
Date Received: 2/7/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C TCLP						Analyst: **JDC**
Hexachlorobenzene	ND	0.13		mg/L	1	2/14/2011 5:45:03 PM
Hexachlorobutadiene	ND	0.50		mg/L	1	2/14/2011 5:45:03 PM
Hexachloroethane	ND	3.0		mg/L	1	2/14/2011 5:45:03 PM
Nitrobenzene	ND	2.0		mg/L	1	2/14/2011 5:45:03 PM
Pentachlorophenol	ND	100		mg/L	1	2/14/2011 5:45:03 PM
Pyridine	ND	5.0		mg/L	1	2/14/2011 5:45:03 PM
2,4,5-Trichlorophenol	ND	400		mg/L	1	2/14/2011 5:45:03 PM
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	2/14/2011 5:45:03 PM
Cresols, Total	ND	200		mg/L	1	2/14/2011 5:45:03 PM
Surr: 2,4,6-Tribromophenol	40.0	21.6-121		%REC	1	2/14/2011 5:45:03 PM
Surr: 2-Fluorobiphenyl	39.7	36.3-107		%REC	1	2/14/2011 5:45:03 PM
Surr: 2-Fluorophenol	29.8	7.63-90		%REC	1	2/14/2011 5:45:03 PM
Surr: 4-Terphenyl-d14	39.8	39-110		%REC	1	2/14/2011 5:45:03 PM
Surr: Nitrobenzene-d5	34.8	36.9-110	S	%REC	1	2/14/2011 5:45:03 PM
Surr: Phenol-d5	22.5	13.3-67.7		%REC	1	2/14/2011 5:45:03 PM
VOLATILES BY 8260B/1311						Analyst: **MMS**
Benzene	ND	0.50		mg/L	1	2/12/2011 4:02:47 PM
2-Butanone	ND	10		mg/L	1	2/12/2011 4:02:47 PM
Carbon Tetrachloride	ND	0.50		mg/L	1	2/12/2011 4:02:47 PM
Chlorobenzene	ND	100		mg/L	1	2/12/2011 4:02:47 PM
Chloroform	ND	6.0		mg/L	1	2/12/2011 4:02:47 PM
1,4-Dichlorobenzene	ND	7.5		mg/L	1	2/12/2011 4:02:47 PM
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	2/12/2011 4:02:47 PM
1,1-Dichloroethene	ND	0.70		mg/L	1	2/12/2011 4:02:47 PM
Hexachlorobutadiene	ND	0.50		mg/L	1	2/12/2011 4:02:47 PM
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	2/12/2011 4:02:47 PM
Trichloroethene (TCE)	ND	0.50		mg/L	1	2/12/2011 4:02:47 PM
Vinyl chloride	ND	0.20		mg/L	1	2/12/2011 4:02:47 PM
Surr: 1,2-Dichloroethane-d4	90.6	69.9-130		%REC	1	2/12/2011 4:02:47 PM
Surr: 4-Bromofluorobenzene	101	71.2-123		%REC	1	2/12/2011 4:02:47 PM
Surr: Dibromofluoromethane	111	73.9-134		%REC	1	2/12/2011 4:02:47 PM
Surr: Toluene-d8	98.7	81.9-122		%REC	1	2/12/2011 4:02:47 PM
EPA METHOD 8151: HERBICIDES TCLP						Analyst: **ANTE**
2,4,5-TP (Silvex)	ND	0.10		mg/L	1	2/16/2011
2,4-D	ND	0.10		mg/L	1	2/16/2011
CORROSIVITY						Analyst: **ANTE**
pH	8.2	0.10		pH Units	1	2/14/2011

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: *21-Feb-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106113IDW2
Lab Order:	1102163	**Collection Date:**	2/7/2011 8:35:00 AM
Project:	KAFB BFF	**Date Received:**	2/7/2011
Lab ID:	1102163-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
IGNITABILITY (SUBBED)						Analyst: **ANTE**
Ignitability	Negative			°F	1	2/16/2011
CYANIDE, REACTIVE						Analyst: **ANTE**
Reactive Cyanide	ND	10		mg/Kg	1	2/11/2011
SULFIDE, REACTIVE						Analyst: **ANTE**
Reactive Sulfide	ND	15		mg/Kg	1	2/15/2011

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: 1102163

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: 1102163-01AMSD		*MSD*				Batch ID:	**25556**	Analysis Date:		2/12/2011 11:27:46 PM	
Diesel Range Organics (DRO)	43.20	mg/Kg	10	50	0	86.4	57.5	128	10.1	19.7	
Sample ID: MB-25556		*MBLK*				Batch ID:	**25556**	Analysis Date:		2/9/2011 7:31:17 AM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-25556		*LCS*				Batch ID:	**25556**	Analysis Date:		2/9/2011 8:04:27 AM	
Diesel Range Organics (DRO)	50.36	mg/Kg	10	50	0	101	66.2	120			
Sample ID: LCSD-25556		*LCSD*				Batch ID:	**25556**	Analysis Date:		2/9/2011 8:37:47 AM	
Diesel Range Organics (DRO)	50.76	mg/Kg	10	50	0	102	66.2	120	0.799	14.3	
Sample ID: 1102163-01AMS		*MS*				Batch ID:	**25556**	Analysis Date:		2/12/2011 10:54:25 PM	
Diesel Range Organics (DRO)	39.03	mg/Kg	10	50	0	78.1	57.5	128			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-25577		*MBLK*				Batch ID:	**25577**	Analysis Date:		2/11/2011 10:58:57 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-25577		*LCS*				Batch ID:	**25577**	Analysis Date:		2/11/2011 11:32:48 AM	
Diesel Range Organics (DRO)	4.644	mg/L	1.0	5	0	92.9	74	157			
Sample ID: LCSD-25577		*LCSD*				Batch ID:	**25577**	Analysis Date:		2/11/2011 12:06:41 PM	
Diesel Range Organics (DRO)	4.740	mg/L	1.0	5	0	94.8	74	157	2.03	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1102163-02AMSD		*MSD*				Batch ID:	**25555**	Analysis Date:		2/9/2011 6:25:39 PM	
Gasoline Range Organics (GRO)	27.31	mg/Kg	5.0	25	0	109	69.2	144	1.10	20.5	
Sample ID: MB-25555		*MBLK*				Batch ID:	**25555**	Analysis Date:		2/9/2011 8:56:03 PM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-25555		*LCS*				Batch ID:	**25555**	Analysis Date:		2/9/2011 6:55:47 PM	
Gasoline Range Organics (GRO)	27.54	mg/Kg	5.0	25	0	110	95.7	120			
Sample ID: 1102163-02AMS		*MS*				Batch ID:	**25555**	Analysis Date:		2/9/2011 5:55:23 PM	
Gasoline Range Organics (GRO)	27.01	mg/Kg	5.0	25	0	108	69.2	144			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R43564**	Analysis Date:		2/8/2011 9:21:57 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R43564**	Analysis Date:		2/8/2011 12:47:35 PM	
Gasoline Range Organics (GRO)	0.5052	mg/L	0.050	0.5	0	101	83.7	124			
Sample ID: 2.5UG GRO LCSD		*LCSD*				Batch ID:	**R43564**	Analysis Date:		2/8/2011 1:17:50 PM	
Gasoline Range Organics (GRO)	0.5112	mg/L	0.050	0.5	0	102	83.7	124	1.18	12	

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: 1102163

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1102163-01AMSD		*MSD*				Batch ID:	**25555**	Analysis Date:		2/9/2011 7:55:57 PM	
Methyl tert-butyl ether (MTBE)	1.396	mg/Kg	0.10	1	0	140	61.3	215	1.52	19.6	
Benzene	1.108	mg/Kg	0.050	1	0	111	67.2	113	0.597	14.3	
Toluene	1.046	mg/Kg	0.050	1	0	105	62.1	116	0.781	15.9	
Ethylbenzene	1.133	mg/Kg	0.050	1	0	113	67.9	127	0.00883	14.4	
Xylenes, Total	3.489	mg/Kg	0.10	3	0	116	60.6	134	0.109	12.6	
Sample ID: MB-25555		*MBLK*				Batch ID:	**25555**	Analysis Date:		2/9/2011 8:56:03 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-25555		*LCS*				Batch ID:	**25555**	Analysis Date:		2/9/2011 8:25:59 PM	
Methyl tert-butyl ether (MTBE)	1.371	mg/Kg	0.10	1	0	137	65.5	229			
Benzene	1.071	mg/Kg	0.050	1	0	107	83.3	107			S
Toluene	1.018	mg/Kg	0.050	1	0	102	74.3	115			
Ethylbenzene	1.101	mg/Kg	0.050	1	0	110	80.9	122			
Xylenes, Total	3.380	mg/Kg	0.10	3	0	113	85.2	123			
Sample ID: 1102163-01AMS		*MS*				Batch ID:	**25555**	Analysis Date:		2/9/2011 7:25:56 PM	
Methyl tert-butyl ether (MTBE)	1.417	mg/Kg	0.10	1	0	142	61.3	215			
Benzene	1.102	mg/Kg	0.050	1	0	110	67.2	113			
Toluene	1.054	mg/Kg	0.050	1	0	105	62.1	116			
Ethylbenzene	1.133	mg/Kg	0.050	1	0	113	67.9	127			
Xylenes, Total	3.485	mg/Kg	0.10	3	0	116	60.6	134			

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: 1102163

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8081: Pesticides TCLP											
Sample ID: 1102163-01BMSD		*MSD*				Batch ID:	**25575**	Analysis Date:		2/16/2011 2:42:25 PM	
Endrin	0.0004400	mg/L	0.00010	0.0005	0	88.0	32.5	169	13.1	20	
gamma-BHC (Lindane)	0.0004130	mg/L	0.00010	0.0005	0	82.6	35.9	151	9.38	20	
Heptachlor	0.0003790	mg/L	0.00010	0.0005	0	75.8	18.6	179	14.4	20	
Heptachlor epoxide	0.0004350	mg/L	0.00010	0.0005	0	87.0	27	163	11.7	20	
Methoxychlor	0.0004210	mg/L	0.00010	0.0005	0	84.2	37.8	155	18.7	20	
Sample ID: MB-25575		*MBLK*				Batch ID:	**25575**	Analysis Date:		2/16/2011 1:33:35 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-25575		*LCS*				Batch ID:	**25575**	Analysis Date:		2/16/2011 1:50:43 PM	
Endrin	0.0003150	mg/L	0.00010	0.0005	0	63.0	40.1	129			
gamma-BHC (Lindane)	0.0003270	mg/L	0.00010	0.0005	0	65.4	35.7	132			
Heptachlor	0.0002870	mg/L	0.00010	0.0005	0	57.4	32.8	124			
Heptachlor epoxide	0.0003380	mg/L	0.00010	0.0005	0	67.6	35.9	131			
Methoxychlor	0.0003030	mg/L	0.00010	0.0005	0	60.6	45.5	128			
Sample ID: 1102163-01BMS		*MS*				Batch ID:	**25575**	Analysis Date:		2/16/2011 2:25:12 PM	
Endrin	0.0003860	mg/L	0.00010	0.0005	0	77.2	32.5	169			
gamma-BHC (Lindane)	0.0003760	mg/L	0.00010	0.0005	0	75.2	35.9	151			
Heptachlor	0.0003280	mg/L	0.00010	0.0005	0	65.6	18.6	179			
Heptachlor epoxide	0.0003870	mg/L	0.00010	0.0005	0	77.4	27	163			
Methoxychlor	0.0003490	mg/L	0.00010	0.0005	0	69.8	37.8	155			
Method: EPA Method 8151: Herbicides TCLP											
Sample ID: MB-R43750		*MBLK*				Batch ID:	**R43750**	Analysis Date:		2/15/2011	
2,4,5-TP (Silvex)	ND	mg/L	0.10								
2,4-D	ND	mg/L	0.10								
Sample ID: LCS-R43750		*LCS*				Batch ID:	**R43750**	Analysis Date:		2/15/2011	
2,4,5-TP (Silvex)	0.002590	mg/L	0.0010	0.003	0	104	20.6	127			
2,4-D	0.01010	mg/L	0.0010	0.01	0	101	31.4	116			

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: 1102163

Method: EPA Method 8260B: VOLATILES
Sample ID: 5ml-rb *MBLK* Batch ID: R43571 Analysis Date: 2/8/2011 1:09:45 PM

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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: 1102163

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml-rb		*MBLK*				Batch ID:	**R43571**	Analysis Date:		2/8/2011 1:09:45 PM	
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: 5ml-rb		*MBLK*				Batch ID:	**R43625**	Analysis Date:		2/10/2011 10:50:28 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								

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.

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF

Work Order: 1102163

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml-rb		*MBLK*									
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*									

Method: EPA Method 8260B: VOLATILES — Batch ID: R43625 — Analysis Date: 2/10/2011 10:50:28 AM

Sample ID: 5ml-rb — Batch ID: R43571 — Analysis Date: 2/8/2011 2:01:40 PM

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: 1102163

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R43571**	Analysis Date:		2/8/2011 2:01:40 PM	
Benzene	22.24	µg/L	1.0	20	0	111	84.6	109			S
Toluene	20.88	µg/L	1.0	20	0	104	81	114			
Chlorobenzene	20.19	µg/L	1.0	20	0	101	85.2	113			
1,1-Dichloroethene	22.59	µg/L	1.0	20	0	113	79.6	124			
Trichloroethene (TCE)	20.89	µg/L	1.0	20	0	104	78.3	102			S
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R43625**	Analysis Date:		2/10/2011 12:02:19 PM	
Benzene	21.35	µg/L	1.0	20	0	107	84.6	109			
Toluene	18.46	µg/L	1.0	20	0	92.3	81	114			
Chlorobenzene	18.68	µg/L	1.0	20	0	93.4	85.2	113			
1,1-Dichloroethene	24.92	µg/L	1.0	20	0	125	79.6	124			S
Trichloroethene (TCE)	18.03	µg/L	1.0	20	0	90.2	78.3	102			
Method: Volatiles by 8260B/1311											
Sample ID: mb-25558		*MBLK*				Batch ID:	**25558**	Analysis Date:		2/12/2011 1:41:07 PM	
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-25558		*LCS*				Batch ID:	**25558**	Analysis Date:		2/12/2011 2:09:29 PM	
Benzene	0.4005	mg/L	0.010	0.4	0	100	51.1	171			
Chlorobenzene	0.3932	mg/L	0.010	0.4	0.0020	97.8	36.1	191			
1,1-Dichloroethene	0.4418	mg/L	0.010	0.4	0	110	49.1	162			
Trichloroethene (TCE)	0.3572	mg/L	0.010	0.4	0	89.3	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: 1102163

Method: EPA Method 8270C: Semivolatiles
Sample ID: mb-25603 *MBLK*

Batch ID: 25603 Analysis Date: 2/16/2011 1:18:52 PM

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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

Hall Environmental Analysis Laboratory, Inc.

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF

Work Order: 1102163

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles							Batch ID:	**25603**	Analysis Date:	2/16/2011 1:18:52 PM	
Sample ID: mb-25603		*MBLK*									
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-25603		*LCS*					Batch ID:	**25603**	Analysis Date:	2/16/2011 1:48:16 PM	
Acenaphthene	57.38	µg/L	10	100	0	57.4	31	99.4			
4-Chloro-3-methylphenol	124.6	µg/L	10	200	0	62.3	34.3	111			
2-Chlorophenol	113.3	µg/L	10	200	0	56.7	24.1	98.7			
1,4-Dichlorobenzene	53.04	µg/L	10	100	0	53.0	20.6	85.6			
2,4-Dinitrotoluene	65.46	µg/L	10	100	0	65.5	26.6	126			
N-Nitrosodi-n-propylamine	54.00	µg/L	10	100	0	54.0	29.2	94.4			
4-Nitrophenol	103.3	µg/L	10	200	0	51.6	9.87	86			
Pentachlorophenol	106.4	µg/L	20	200	0	53.2	20	97.8			
Phenol	74.70	µg/L	10	200	0	37.4	17.5	60.5			
Pyrene	58.76	µg/L	10	100	0	58.8	46.8	92.2			
1,2,4-Trichlorobenzene	55.30	µg/L	10	100	0	55.3	25.2	92.3			
Sample ID: lcsd-25603		*LCSD*					Batch ID:	**25603**	Analysis Date:	2/16/2011 2:17:43 PM	
Acenaphthene	51.46	µg/L	10	100	0	51.5	31	99.4	10.9	30	
4-Chloro-3-methylphenol	106.6	µg/L	10	200	0	53.3	34.3	111	15.6	30.8	
2-Chlorophenol	105.7	µg/L	10	200	0	52.9	24.1	98.7	6.94	31	
1,4-Dichlorobenzene	46.34	µg/L	10	100	0	46.3	20.6	85.6	13.5	37	
2,4-Dinitrotoluene	59.66	µg/L	10	100	0	59.7	26.6	126	9.27	34.5	

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: 1102163

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles						Batch ID:	**25603**	Analysis Date:		2/16/2011 2:17:43 PM	
Sample ID: lcsd-25603		*LCSD*									
N-Nitrosodi-n-propylamine	49.62	µg/L	10	100	0	49.6	29.2	94.4	8.45	30.8	
4-Nitrophenol	98.12	µg/L	10	200	0	49.1	9.87	86	5.10	61.1	
Pentachlorophenol	110.5	µg/L	20	200	0	55.3	20	97.8	3.85	64.8	
Phenol	68.52	µg/L	10	200	0	34.3	17.5	60.5	8.63	31.4	
Pyrene	54.76	µg/L	10	100	0	54.8	46.8	92.2	7.05	29.8	
1,2,4-Trichlorobenzene	47.06	µg/L	10	100	0	47.1	25.2	92.3	16.1	30.9	

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
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NC Non-Chlorinated
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB BFF

Work Order: 1102163

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C TCLP											
Sample ID: 1102163-02Bmsd		*MSD*				Batch ID:	**25576**	Analysis Date:		2/14/2011 1:20:12 PM	
2,4-Dinitrotoluene	0.06472	mg/L	0.010	0.1	0	64.7	18.8	132	15.0	27.2	
Hexachlorobenzene	0.03398	mg/L	0.010	0.1	0	34.0	23.2	85.1	5.57	23	
Hexachlorobutadiene	0.04932	mg/L	0.010	0.1	0	49.3	19.4	95.4	1.97	21.6	
Hexachloroethane	0.05332	mg/L	0.010	0.1	0	53.3	21.2	93.4	7.79	30	
Nitrobenzene	0.06128	mg/L	0.010	0.1	0	61.3	26.6	104	0.163	23.4	
Pentachlorophenol	0.02536	mg/L	0.010	0.1	0	25.4	10	91.1	25.4	58.6	
Pyridine	0.04306	mg/L	0.010	0.1	0	43.1	4.93	76.8	3.93	35.4	
2,4,5-Trichlorophenol	0.04444	mg/L	0.010	0.1	0	44.4	10	105	35.2	58.3	
2,4,6-Trichlorophenol	0.03806	mg/L	0.010	0.1	0	38.1	9.42	99.5	35.7	57.7	
Cresols, Total	0.1645	mg/L	0.010	0.3	0	54.8	17.9	97.2	18.7	25.4	
Sample ID: mb-25576		*MBLK*				Batch ID:	**25576**	Analysis Date:		2/14/2011 10:54:00 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-25576		*LCS*				Batch ID:	**25576**	Analysis Date:		2/14/2011 11:23:06 AM	
2,4-Dinitrotoluene	0.04608	mg/L	0.010	0.1	0	46.1	21.5	129			
Hexachlorobenzene	0.02722	mg/L	0.010	0.1	0	27.2	26.2	83.3			
Hexachlorobutadiene	0.04032	mg/L	0.010	0.1	0	40.3	25.9	83.4			
Hexachloroethane	0.04110	mg/L	0.010	0.1	0	41.1	30.5	77.5			
Nitrobenzene	0.05056	mg/L	0.010	0.1	0	50.6	34.6	97.6			
Pentachlorophenol	0.02088	mg/L	0.010	0.1	0	20.9	13.3	88.7			
Pyridine	0.03594	mg/L	0.010	0.1	0	35.9	5.1	70.6			
2,4,5-Trichlorophenol	0.03994	mg/L	0.010	0.1	0	39.9	11.7	104			
2,4,6-Trichlorophenol	0.03700	mg/L	0.010	0.1	0	37.0	11.6	100			
Cresols, Total	0.1033	mg/L	0.010	0.3	0	34.4	29.6	87			
Sample ID: 1102163-02Bms		*MS*				Batch ID:	**25576**	Analysis Date:		2/14/2011 12:50:53 PM	
2,4-Dinitrotoluene	0.05570	mg/L	0.010	0.1	0	55.7	18.8	132			
Hexachlorobenzene	0.03214	mg/L	0.010	0.1	0	32.1	23.2	85.1			
Hexachlorobutadiene	0.05030	mg/L	0.010	0.1	0	50.3	19.4	95.4			
Hexachloroethane	0.04932	mg/L	0.010	0.1	0	49.3	21.2	93.4			
Nitrobenzene	0.06138	mg/L	0.010	0.1	0	61.4	26.6	104			
Pentachlorophenol	0.01964	mg/L	0.010	0.1	0	19.6	10	91.1			
Pyridine	0.04140	mg/L	0.010	0.1	0	41.4	4.93	76.8			
2,4,5-Trichlorophenol	0.03114	mg/L	0.010	0.1	0	31.1	10	105			
2,4,6-Trichlorophenol	0.02652	mg/L	0.010	0.1	0	26.5	9.42	99.5			
Cresols, Total	0.1364	mg/L	0.010	0.3	0	45.5	17.9	97.2			

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: 1102163

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: MERCURY, TCLP											
Sample ID: MB-25633		*MBLK*				Batch ID:	**25633**	Analysis Date:		2/16/2011 1:12:32 PM	
Mercury	ND	mg/L	0.020								
Sample ID: LCS-25633		*LCS*				Batch ID:	**25633**	Analysis Date:		2/16/2011 1:14:20 PM	
Mercury	ND	mg/L	0.020	0.005	0	88.6	80	120			
Method: EPA Method 6010B: TCLP Metals											
Sample ID: MB-25640		*MBLK*				Batch ID:	**25640**	Analysis Date:		2/17/2011 12:04:16 PM	
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: MB-25640		*MBLK*				Batch ID:	**25640**	Analysis Date:		2/18/2011 2:19:07 PM	
Selenium	ND	mg/L	1.0								
Sample ID: LCS-25640		*LCS*				Batch ID:	**25640**	Analysis Date:		2/17/2011 12:06:40 PM	
Arsenic	ND	mg/L	5.0	0.5	0	116	80	120			
Barium	ND	mg/L	100	0.5	0	95.7	80	120			
Cadmium	ND	mg/L	1.0	0.5	0	107	80	120			
Chromium	ND	mg/L	5.0	0.5	0	103	80	120			
Lead	ND	mg/L	5.0	0.5	0	98.4	80	120			
Selenium	ND	mg/L	1.0	0.5	0	120	80	120			S
Silver	ND	mg/L	5.0	0.5	0	108	80	120			
Sample ID: LCS-25640		*LCS*				Batch ID:	**25640**	Analysis Date:		2/18/2011 2:21:33 PM	
Selenium	ND	mg/L	1.0	0.5	0	114	80	120			
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-25565		*MBLK*				Batch ID:	**25565**	Analysis Date:		2/10/2011 8:26:09 AM	
Lead	ND	mg/L	0.0050								
Sample ID: LCS-25565		*LCS*				Batch ID:	**25565**	Analysis Date:		2/10/2011 8:29:16 AM	
Lead	0.5088	mg/L	0.0050	0.5	0	102	80	120			
Method: CYANIDE, Reactive											
Sample ID: MB-R43750		*MBLK*				Batch ID:	**R43750**	Analysis Date:		2/11/2011	
Reactive Cyanide	ND	mg/Kg	10								
Sample ID: LCS-R43750		*LCS*				Batch ID:	**R43750**	Analysis Date:		2/11/2011	
Reactive Cyanide	0.5400	mg/Kg	0.10	0.5	0	108	70	130			
Method: SULFIDE, Reactive											
Sample ID: MB-R43750		*MBLK*				Batch ID:	**R43750**	Analysis Date:		2/15/2011	
Reactive Sulfide	ND	mg/Kg	10								
Sample ID: LCS-R43750		*LCS*				Batch ID:	**R43750**	Analysis Date:		2/15/2011	
Reactive Sulfide	0.2000	mg/Kg	0.10	0.2	0	100	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: **2/7/2011**

Work Order Number **1102163**

Received by: MMG

Sample ID labels checked by: _____ Initials

Checklist completed by: Michelle Garcia _____ Signature 2/7/11 _____ 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 ☐		Number of preserved bottles checked for pH:
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 ☑	<2 >12 unless noted below.
Container/Temp Blank temperature?	**8.6°C**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

8.6°C
MG
2/7/11

Shaw™ Shaw E & I

CHAIN OF CUSTODY

Ref. Document # 140705 - IDW011

Page 1 of 2

Project Number: 140705
Project Name / Location: KAFB BFF
Purchase Order #: 654194

Project Contact: Pamela Moss (Name & phone #)

Shipment Date: 02/07/11
Waybill/Airbill Number: Courier
Lab Destination: Hall Environ.
Lab Contact Name / ph. #: Hall Environ.

Send Report To: Pamela Moss
Phone/Fax Number: 720-554-8252
Address: pamela.moss@shawgrp.com
City:

Sampler's Name(s): Kimberly Jones

	Sample ID Number	Sample Description	Collection Information: Date	Time	G/C	Matrix	# of containers	Container type	Preservative: HCL	NaOH	HNO_3	H_2SO_4	Ice	None	Analyses Requested: Full TCLP / RCI	BTEX / TPHG / TPHD	8260 / GRO	8270 / ~~GRO~~ DRO	Lead					Turn Around Time Requested
1102163-1	106109IDW2	Rolloff - Drill Cuttings	2/7/11	0820	C	SOL	3	8 oz.						X	X									10 d
	"	"	2/7/11	0820	C	SOL	1	4 oz.						X		X								10 d
-2	106113IDW2	Rolloff - Drill Cuttings	2/7/11	0835	C	SOL	3	8 oz.						X	X									10 d
	"	"	2/7/11	0835	C	SOL	1	4 oz.						X		X								10 d
-4B	106135WW1	Purge / Decon water	2/7/11	0945	G	WW	5	40 mL VOA	X								X							10 d
	"	"	2/7/11	0945	G	WW	2	Amber						X				X						10 d
	"	"	2/7/11	0945	G	WW	1	500 mL bottle			X								X					10 d
-5A	106044WW1	Purge / Decon water	2/7/11	1015	G	WW	5	40 mL VOA	X								X							10 d
	"	"	2/7/11	1015	G	WW	2	Amber						X				X						10 d
	"	"	2/7/11	1015	G	WW	1	500 mL bottle			X								X					10 d

Special Instructions:

QC/Data Package Level Required: I II III IV/Project Specific:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Kimberly Jones	2/7/11	1500	[signature]	2/7/11	3:00
			Michelle Garcia	2/7/11	1530

G/C Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples
SW = Surface Water WP = Wipe Samples
LIQ = Other Liquid SOL = Other Solid
AS = Air Sample SED = Sediment