HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, January 19, 2011

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

TEL: (720) 554-8252
FAX

RE: KAFB FF 654194

Order No.: 1101216

Dear Pamela Moss:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 1/6/2011 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

ACCREDITED IN ACCORDANCE WITH nelac

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

Hall Environmental Analysis Laboratory, Inc.

Date: *19-Jan-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106139IDW1
Lab Order:	1101216	**Collection Date:**	1/11/2011
Project:	KAFB FF 654194	**Date Received:**	1/6/2011
Lab ID:	1101216-01	**Matrix:**	LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8081: PESTICIDES TCLP						Analyst: **JDC**
Chlordane	ND	0.030		mg/L	1	1/14/2011 11:45:14 AM
Endrin	ND	0.020		mg/L	1	1/14/2011 11:45:14 AM
gamma-BHC (Lindane)	ND	0.40		mg/L	1	1/14/2011 11:45:14 AM
Heptachlor	ND	0.0080		mg/L	1	1/14/2011 11:45:14 AM
Heptachlor epoxide	ND	0.0080		mg/L	1	1/14/2011 11:45:14 AM
Methoxychlor	ND	10		mg/L	1	1/14/2011 11:45:14 AM
Toxaphene	ND	0.50		mg/L	1	1/14/2011 11:45:14 AM
Surr: Decachlorobiphenyl	111	47.3-125		%REC	1	1/14/2011 11:45:14 AM
Surr: Tetrachloro-m-xylene	90.8	35.7-135		%REC	1	1/14/2011 11:45:14 AM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/14/2011 6:51:39 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/14/2011 6:51:39 AM
Surr: DNOP	97.7	81.8-129		%REC	1	1/14/2011 6:51:39 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2011 11:47:59 PM
Surr: BFB	96.2	89.7-125		%REC	1	1/12/2011 11:47:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/12/2011 11:47:59 PM
Benzene	ND	0.050		mg/Kg	1	1/12/2011 11:47:59 PM
Toluene	ND	0.050		mg/Kg	1	1/12/2011 11:47:59 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2011 11:47:59 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2011 11:47:59 PM
Surr: 4-Bromofluorobenzene	112	88.9-151		%REC	1	1/12/2011 11:47:59 PM
MERCURY, TCLP						Analyst: **ELS**
Mercury	ND	0.020		mg/L	1	1/17/2011 11:42:52 AM
EPA METHOD 6010B: TCLP METALS						Analyst: **RAGS**
Arsenic	ND	5.0		mg/L	1	1/13/2011 2:27:32 PM
Barium	ND	100		mg/L	1	1/13/2011 2:27:32 PM
Cadmium	ND	1.0		mg/L	1	1/13/2011 2:27:32 PM
Chromium	ND	5.0		mg/L	1	1/13/2011 2:27:32 PM
Lead	ND	5.0		mg/L	1	1/13/2011 2:27:32 PM
Selenium	ND	1.0		mg/L	1	1/13/2011 2:27:32 PM
Silver	ND	5.0		mg/L	1	1/13/2011 2:27:32 PM
EPA METHOD 8270C TCLP						Analyst: **JDC**
2,4-Dinitrotoluene	ND	0.13		mg/L	1	1/14/2011 2:45:37 PM

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: *19-Jan-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106139IDW1
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Project:	KAFB FF 654194	**Date Received:**	1/6/2011
Lab ID:	1101216-01	**Matrix:**	LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C TCLP						Analyst: **JDC**
Hexachlorobenzene	ND	0.13		mg/L	1	1/14/2011 2:45:37 PM
Hexachlorobutadiene	ND	0.50		mg/L	1	1/14/2011 2:45:37 PM
Hexachloroethane	ND	3.0		mg/L	1	1/14/2011 2:45:37 PM
Nitrobenzene	ND	2.0		mg/L	1	1/14/2011 2:45:37 PM
Pentachlorophenol	ND	100		mg/L	1	1/14/2011 2:45:37 PM
Pyridine	ND	5.0		mg/L	1	1/14/2011 2:45:37 PM
2,4,5-Trichlorophenol	ND	400		mg/L	1	1/14/2011 2:45:37 PM
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	1/14/2011 2:45:37 PM
Cresols, Total	ND	200		mg/L	1	1/14/2011 2:45:37 PM
Surr: 2,4,6-Tribromophenol	101	21.6-121		%REC	1	1/14/2011 2:45:37 PM
Surr: 2-Fluorobiphenyl	115	36.3-107	S	%REC	1	1/14/2011 2:45:37 PM
Surr: 2-Fluorophenol	78.2	7.63-90		%REC	1	1/14/2011 2:45:37 PM
Surr: 4-Terphenyl-d14	122	39-110	S	%REC	1	1/14/2011 2:45:37 PM
Surr: Nitrobenzene-d5	93.5	36.9-110		%REC	1	1/14/2011 2:45:37 PM
Surr: Phenol-d5	55.2	13.3-67.7		%REC	1	1/14/2011 2:45:37 PM
VOLATILES BY 8260B/1311						Analyst: **MMS**
Benzene	ND	0.50		mg/L	1	1/13/2011 7:01:23 PM
2-Butanone	ND	10		mg/L	1	1/13/2011 7:01:23 PM
Carbon Tetrachloride	ND	0.50		mg/L	1	1/13/2011 7:01:23 PM
Chlorobenzene	ND	100		mg/L	1	1/13/2011 7:01:23 PM
Chloroform	ND	6.0		mg/L	1	1/13/2011 7:01:23 PM
1,4-Dichlorobenzene	ND	7.5		mg/L	1	1/13/2011 7:01:23 PM
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	1/13/2011 7:01:23 PM
1,1-Dichloroethene	ND	0.70		mg/L	1	1/13/2011 7:01:23 PM
Hexachlorobutadiene	ND	0.50		mg/L	1	1/13/2011 7:01:23 PM
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	1/13/2011 7:01:23 PM
Trichloroethene (TCE)	ND	0.50		mg/L	1	1/13/2011 7:01:23 PM
Vinyl chloride	ND	0.20		mg/L	1	1/13/2011 7:01:23 PM
Surr: 1,2-Dichloroethane-d4	87.7	69.9-130		%REC	1	1/13/2011 7:01:23 PM
Surr: 4-Bromofluorobenzene	94.7	71.2-123		%REC	1	1/13/2011 7:01:23 PM
Surr: Dibromofluoromethane	98.4	73.9-134		%REC	1	1/13/2011 7:01:23 PM
Surr: Toluene-d8	104	81.9-122		%REC	1	1/13/2011 7:01:23 PM
EPA METHOD 8151: HERBICIDES TCLP						Analyst: **ANTE**
2,4,5-TP (Silvex)	ND	0.10		mg/L	1	1/13/2011
2,4-D	ND	0.10		mg/L	1	1/13/2011
CORROSIVITY						Analyst: **ANTE**
pH	8.3	0.10		pH Units	1	1/17/2011

Qualifiers:

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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: *19-Jan-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106139IDW1
Lab Order:	1101216	**Collection Date:**	1/11/2011
Project:	KAFB FF 654194	**Date Received:**	1/6/2011
Lab ID:	1101216-01	**Matrix:**	LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
IGNITABILITY (SUBBED)						Analyst: **ANTE**
Ignitability	Negative			°F	1	1/17/2011
CYANIDE, REACTIVE						Analyst: **ANTE**
Reactive Cyanide	ND	10		mg/Kg	1	1/17/2011
SULFIDE, REACTIVE						Analyst: **ANTE**
Reactive Sulfide	ND	30		mg/Kg	1	1/17/2011

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: *19-Jan-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106044IDW1
Lab Order:	1101216	**Collection Date:**	1/11/2011
Project:	KAFB FF 654194	**Date Received:**	1/6/2011
Lab ID:	1101216-02	**Matrix:**	LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8081: PESTICIDES TCLP						Analyst: **JDC**
Chlordane	ND	0.030		mg/L	1	1/14/2011 12:13:15 PM
Endrin	ND	0.020		mg/L	1	1/14/2011 12:13:15 PM
gamma-BHC (Lindane)	ND	0.40		mg/L	1	1/14/2011 12:13:15 PM
Heptachlor	ND	0.0080		mg/L	1	1/14/2011 12:13:15 PM
Heptachlor epoxide	ND	0.0080		mg/L	1	1/14/2011 12:13:15 PM
Methoxychlor	ND	10		mg/L	1	1/14/2011 12:13:15 PM
Toxaphene	ND	0.50		mg/L	1	1/14/2011 12:13:15 PM
Surr: Decachlorobiphenyl	97.4	47.3-125		%REC	1	1/14/2011 12:13:15 PM
Surr: Tetrachloro-m-xylene	82.2	35.7-135		%REC	1	1/14/2011 12:13:15 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/14/2011 7:16:42 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/14/2011 7:16:42 AM
Surr: DNOP	95.8	81.8-129		%REC	1	1/14/2011 7:16:42 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/13/2011 12:18:03 AM
Surr: BFB	98.2	89.7-125		%REC	1	1/13/2011 12:18:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/13/2011 12:18:03 AM
Benzene	ND	0.050		mg/Kg	1	1/13/2011 12:18:03 AM
Toluene	ND	0.050		mg/Kg	1	1/13/2011 12:18:03 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/13/2011 12:18:03 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/13/2011 12:18:03 AM
Surr: 4-Bromofluorobenzene	114	88.9-151		%REC	1	1/13/2011 12:18:03 AM
MERCURY, TCLP						Analyst: **ELS**
Mercury	ND	0.020		mg/L	1	1/17/2011 11:44:40 AM
EPA METHOD 6010B: TCLP METALS						Analyst: **RAGS**
Arsenic	ND	5.0		mg/L	1	1/13/2011 2:43:02 PM
Barium	ND	100		mg/L	1	1/13/2011 2:43:02 PM
Cadmium	ND	1.0		mg/L	1	1/13/2011 2:43:02 PM
Chromium	ND	5.0		mg/L	1	1/13/2011 2:43:02 PM
Lead	ND	5.0		mg/L	1	1/13/2011 2:43:02 PM
Selenium	ND	1.0		mg/L	1	1/13/2011 2:43:02 PM
Silver	ND	5.0		mg/L	1	1/13/2011 2:43:02 PM
EPA METHOD 8270C TCLP						Analyst: **JDC**
2,4-Dinitrotoluene	ND	0.13		mg/L	1	1/14/2011 4:13:15 PM

Qualifiers:

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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: *19-Jan-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106044IDW1
Lab Order:	1101216	**Collection Date:**	1/11/2011
Project:	KAFB FF 654194	**Date Received:**	1/6/2011
Lab ID:	1101216-02	**Matrix:**	LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C TCLP						Analyst: **JDC**
Hexachlorobenzene	ND	0.13		mg/L	1	1/14/2011 4:13:15 PM
Hexachlorobutadiene	ND	0.50		mg/L	1	1/14/2011 4:13:15 PM
Hexachloroethane	ND	3.0		mg/L	1	1/14/2011 4:13:15 PM
Nitrobenzene	ND	2.0		mg/L	1	1/14/2011 4:13:15 PM
Pentachlorophenol	ND	100		mg/L	1	1/14/2011 4:13:15 PM
Pyridine	ND	5.0		mg/L	1	1/14/2011 4:13:15 PM
2,4,5-Trichlorophenol	ND	400		mg/L	1	1/14/2011 4:13:15 PM
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	1/14/2011 4:13:15 PM
Cresols, Total	ND	200		mg/L	1	1/14/2011 4:13:15 PM
Surr: 2,4,6-Tribromophenol	90.4	21.6-121		%REC	1	1/14/2011 4:13:15 PM
Surr: 2-Fluorobiphenyl	91.6	36.3-107		%REC	1	1/14/2011 4:13:15 PM
Surr: 2-Fluorophenol	65.3	7.63-90		%REC	1	1/14/2011 4:13:15 PM
Surr: 4-Terphenyl-d14	92.9	39-110		%REC	1	1/14/2011 4:13:15 PM
Surr: Nitrobenzene-d5	88.9	36.9-110		%REC	1	1/14/2011 4:13:15 PM
Surr: Phenol-d5	44.4	13.3-67.7		%REC	1	1/14/2011 4:13:15 PM
VOLATILES BY 8260B/1311						Analyst: **MMS**
Benzene	ND	0.50		mg/L	1	1/13/2011 7:29:11 PM
2-Butanone	ND	10		mg/L	1	1/13/2011 7:29:11 PM
Carbon Tetrachloride	ND	0.50		mg/L	1	1/13/2011 7:29:11 PM
Chlorobenzene	ND	100		mg/L	1	1/13/2011 7:29:11 PM
Chloroform	ND	6.0		mg/L	1	1/13/2011 7:29:11 PM
1,4-Dichlorobenzene	ND	7.5		mg/L	1	1/13/2011 7:29:11 PM
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	1/13/2011 7:29:11 PM
1,1-Dichloroethene	ND	0.70		mg/L	1	1/13/2011 7:29:11 PM
Hexachlorobutadiene	ND	0.50		mg/L	1	1/13/2011 7:29:11 PM
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	1/13/2011 7:29:11 PM
Trichloroethene (TCE)	ND	0.50		mg/L	1	1/13/2011 7:29:11 PM
Vinyl chloride	ND	0.20		mg/L	1	1/13/2011 7:29:11 PM
Surr: 1,2-Dichloroethane-d4	85.6	69.9-130		%REC	1	1/13/2011 7:29:11 PM
Surr: 4-Bromofluorobenzene	93.1	71.2-123		%REC	1	1/13/2011 7:29:11 PM
Surr: Dibromofluoromethane	95.2	73.9-134		%REC	1	1/13/2011 7:29:11 PM
Surr: Toluene-d8	98.4	81.9-122		%REC	1	1/13/2011 7:29:11 PM
EPA METHOD 8151: HERBICIDES TCLP						Analyst: **ANTE**
2,4,5-TP (Silvex)	ND	0.10		mg/L	1	1/13/2011
2,4-D	ND	0.10		mg/L	1	1/13/2011
CORROSIVITY						Analyst: **ANTE**
pH	8.3	0.10		pH Units	1	1/17/2011

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: *19-Jan-11*

CLIENT:	Shaw Environmental, Inc.	**Client Sample ID:**	106044IDW1
Lab Order:	1101216	**Collection Date:**	1/11/2011
Project:	KAFB FF 654194	**Date Received:**	1/6/2011
Lab ID:	1101216-02	**Matrix:**	LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
IGNITABILITY (SUBBED)						Analyst: **ANTE**
Ignitability	Negative			°F	1	1/17/2011
CYANIDE, REACTIVE						Analyst: **ANTE**
Reactive Cyanide	ND	10		mg/Kg	1	1/17/2011
SULFIDE, REACTIVE						Analyst: **ANTE**
Reactive Sulfide	ND	30		mg/Kg	1	1/17/2011

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 FF 654194 **Work Order:** 1101216

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-25141		*MBLK*				Batch ID:	**25141**	Analysis Date:		1/13/2011 6:31:48 PM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-25141		*LCS*				Batch ID:	**25141**	Analysis Date:		1/13/2011 7:05:27 PM	
Diesel Range Organics (DRO)	39.59	mg/Kg	10	50	0	79.2	66.2	120			
Sample ID: LCSD-25141		*LCSD*				Batch ID:	**25141**	Analysis Date:		1/13/2011 7:39:03 PM	
Diesel Range Organics (DRO)	41.59	mg/Kg	10	50	0	83.2	66.2	120	4.94	14.3	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-25136		*MBLK*				Batch ID:	**25136**	Analysis Date:		1/12/2011 7:16:55 PM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-25136		*LCS*				Batch ID:	**25136**	Analysis Date:		1/13/2011 3:49:51 AM	
Gasoline Range Organics (GRO)	100.2	mg/Kg	5.0	100	0	100	95.7	120			
Sample ID: LCS-25136		*LCS*				Batch ID:	**25136**	Analysis Date:		1/14/2011 6:16:48 PM	
Gasoline Range Organics (GRO)	103.7	mg/Kg	5.0	100	2.48	101	95.7	120			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-25136		*MBLK*				Batch ID:	**25136**	Analysis Date:		1/12/2011 7:16:55 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-25136		*LCS*				Batch ID:	**25136**	Analysis Date:		1/12/2011 6:46:49 PM	
Methyl tert-butyl ether (MTBE)	0.3061	mg/Kg	0.10	0.25	0	122	65.5	229			
Benzene	0.2524	mg/Kg	0.050	0.25	0	101	83.3	107			
Toluene	0.2359	mg/Kg	0.050	0.25	0	94.4	74.3	115			
Ethylbenzene	0.2519	mg/Kg	0.050	0.25	0	101	80.9	122			
Xylenes, Total	0.7860	mg/Kg	0.10	0.75	0	105	85.2	123			

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 FF 654194 **Work Order:** 1101216

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8081: Pesticides TCLP											
Sample ID: MB-25225		*MBLK*				Batch ID:	**25225**	Analysis Date:	1/14/2011 10:45:05 AM		
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-25225		*LCS*				Batch ID:	**25225**	Analysis Date:	1/14/2011 11:24:24 AM		
Endrin	0.0005080	mg/L	0.00010	0.0005	0	102	46.5	131			
gamma-BHC (Lindane)	0.0004470	mg/L	0.00010	0.0005	0	89.4	43.8	113			
Heptachlor	0.0004200	mg/L	0.00010	0.0005	0	84.0	36.7	122			
Heptachlor epoxide	0.0004860	mg/L	0.00010	0.0005	0	97.2	41.6	112			
Methoxychlor	0.0005210	mg/L	0.00010	0.0005	0	104	47.2	122			

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 FF 654194 **Work Order:** 1101216

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C TCLP											
Sample ID: 1101216-01Bmsd		*MSD*				Batch ID:	**25224**	Analysis Date:		1/14/2011 3:44:06 PM	
2,4-Dinitrotoluene	0.04050	mg/L	0.010	0.1	0	40.5	18.8	132	2.55	27.2	
Hexachlorobenzene	0.04004	mg/L	0.010	0.1	0	40.0	23.2	85.1	15.0	23	
Hexachlorobutadiene	0.03770	mg/L	0.010	0.1	0	37.7	19.4	95.4	17.7	21.6	
Hexachloroethane	0.03912	mg/L	0.010	0.1	0	39.1	21.2	93.4	15.4	30	
Nitrobenzene	0.04216	mg/L	0.010	0.1	0	42.2	26.6	104	5.41	23.4	
Pentachlorophenol	0.04050	mg/L	0.010	0.1	0	40.5	10	91.1	4.75	58.6	
Pyridine	0.03098	mg/L	0.010	0.1	0	31.0	4.93	76.8	14.9	35.4	
2,4,5-Trichlorophenol	0.05164	mg/L	0.010	0.1	0	51.6	10	105	25.3	58.3	
2,4,6-Trichlorophenol	0.04636	mg/L	0.010	0.1	0	46.4	9.42	99.5	22.5	57.7	
Cresols, Total	0.09532	mg/L	0.010	0.3	0	31.8	17.9	97.2	12.9	25.4	
Sample ID: mb-25224		*MBLK*				Batch ID:	**25224**	Analysis Date:		1/14/2011 1:17:38 PM	
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-25224		*LCS*				Batch ID:	**25224**	Analysis Date:		1/14/2011 1:47:00 PM	
2,4-Dinitrotoluene	0.05424	mg/L	0.010	0.1	0	54.2	21.5	129			
Hexachlorobenzene	0.04836	mg/L	0.010	0.1	0	48.4	26.2	83.3			
Hexachlorobutadiene	0.05124	mg/L	0.010	0.1	0	51.2	25.9	83.4			
Hexachloroethane	0.05396	mg/L	0.010	0.1	0	54.0	30.5	77.5			
Nitrobenzene	0.06174	mg/L	0.010	0.1	0	61.7	34.6	97.6			
Pentachlorophenol	0.05722	mg/L	0.010	0.1	0	57.2	13.3	88.7			
Pyridine	0.03512	mg/L	0.010	0.1	0	35.1	5.1	70.6			
2,4,5-Trichlorophenol	0.06116	mg/L	0.010	0.1	0	61.2	11.7	104			
2,4,6-Trichlorophenol	0.06200	mg/L	0.010	0.1	0	62.0	11.6	100			
Cresols, Total	0.1367	mg/L	0.010	0.3	0	45.6	29.6	87			
Sample ID: 1101216-01Bms		*MS*				Batch ID:	**25224**	Analysis Date:		1/14/2011 3:14:57 PM	
2,4-Dinitrotoluene	0.03948	mg/L	0.010	0.1	0	39.5	18.8	132			
Hexachlorobenzene	0.03446	mg/L	0.010	0.1	0	34.5	23.2	85.1			
Hexachlorobutadiene	0.03158	mg/L	0.010	0.1	0	31.6	19.4	95.4			
Hexachloroethane	0.03352	mg/L	0.010	0.1	0	33.5	21.2	93.4			
Nitrobenzene	0.03994	mg/L	0.010	0.1	0	39.9	26.6	104			
Pentachlorophenol	0.03862	mg/L	0.010	0.1	0	38.6	10	91.1			
Pyridine	0.02668	mg/L	0.010	0.1	0	26.7	4.93	76.8			
2,4,5-Trichlorophenol	0.04006	mg/L	0.010	0.1	0	40.1	10	105			
2,4,6-Trichlorophenol	0.03700	mg/L	0.010	0.1	0	37.0	9.42	99.5			
Cresols, Total	0.08380	mg/L	0.010	0.3	0	27.9	17.9	97.2			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
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ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Shaw Environmental, Inc.
Project: KAFB FF 654194 **Work Order:** 1101216

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: MERCURY, TCLP											
Sample ID: LCS-25247		*LCS*				Batch ID:	**25247**	Analysis Date:		1/17/2011 11:32:15 AM	
Mercury	ND	mg/L	0.020	0.005	0	102	80	120			
Method: EPA Method 6010B: TCLP Metals											
Sample ID: 1101216-01BMSD		*MSD*				Batch ID:	**25196**	Analysis Date:		1/13/2011 2:33:27 PM	
Arsenic	ND	mg/L	5.0	0.5	0	101	75	125	0	20	
Cadmium	ND	mg/L	1.0	0.5	0	95.4	75	125	0	20	
Chromium	ND	mg/L	5.0	0.5	0	84.1	75	125	0	20	
Lead	ND	mg/L	5.0	0.5	0	89.6	75	125	0	20	
Selenium	ND	mg/L	1.0	0.5	0	98.1	75	125	0	20	
Silver	ND	mg/L	5.0	0.5	0	96.7	75	125	0	20	
Sample ID: MB-25196		*MBLK*				Batch ID:	**25196**	Analysis Date:		1/13/2011 1:02:26 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: LCS-25196		*LCS*				Batch ID:	**25196**	Analysis Date:		1/13/2011 1:07:00 PM	
Arsenic	ND	mg/L	5.0	0.5	0	116	80	120			
Barium	ND	mg/L	100	0.5	0	104	80	120			
Cadmium	ND	mg/L	1.0	0.5	0	115	80	120			
Chromium	ND	mg/L	5.0	0.5	0	103	80	120			
Lead	ND	mg/L	5.0	0.5	0	108	80	120			
Selenium	ND	mg/L	1.0	0.5	0	121	80	120			S
Silver	ND	mg/L	5.0	0.5	0	115	80	120			
Sample ID: 1101216-01BMS		*MS*				Batch ID:	**25196**	Analysis Date:		1/13/2011 2:31:02 PM	
Arsenic	ND	mg/L	5.0	0.5	0	105	75	125			
Cadmium	ND	mg/L	1.0	0.5	0	97.4	75	125			
Chromium	ND	mg/L	5.0	0.5	0	85.8	75	125			
Lead	ND	mg/L	5.0	0.5	0	91.2	75	125			
Selenium	ND	mg/L	1.0	0.5	0	98.9	75	125			
Silver	ND	mg/L	5.0	0.5	0	99.1	75	125			
Method: CYANIDE, Reactive											
Sample ID: MB-R43185		*MBLK*				Batch ID:	**R43185**	Analysis Date:		1/17/2011	
Reactive Cyanide	ND	mg/Kg	10								
Sample ID: LCS-R43185		*LCS*				Batch ID:	**R43185**	Analysis Date:		1/17/2011	
Reactive Cyanide	0.5040	mg/Kg	0.50	0.5	0	101	80	120			

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 FF 654194 **Work Order:** 1101216

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SULFIDE, Reactive											
Sample ID: MB-R43185		*MBLK*				Batch ID:	**R43185**	Analysis Date:			1/17/2011
Reactive Sulfide	ND	mg/Kg	10								
Sample ID: LCS-R43185		*LCS*				Batch ID:	**R43185**	Analysis Date:			1/17/2011
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: 1/6/2011

Work Order Number 1101216

Received by: AMG

Sample ID labels checked by: AT / dam
Initials

Checklist completed by: [signature] 01/06/11
Signature Date

Matrix:

Carrier name: Client drop-off

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?	**10.3°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

10.3

Shaw™ Shaw E & I

CHAIN OF CUSTODY

Ref. Document # 140705-106139IDW3

Page 1 of 1

Project Number: 140705
Project Name / Location: KAFBFF 654194
Purchase Order #: 654194

Project Contact: Pamela Moss (Name & phone #)

Shipment Date: 1/06/11
Waybill/Airbill Number: Hand Carry
Lab Destination: Hall Env.
Lab Contact Name / ph. #:

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

1/01/2/16 Sampler's Name(s):

	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		Analyses Requested TCLP / RCI	BTEX/TPHG/TPHD								Turn Around Time Requested
-1	106139IDW1	Rolloff Drill Cuttings	1/06/11	1415	C	SOL	3	8oz							X									10
-1	"	"	1/06/11	1415	C	SOL	1	4oz								X								10
-2	106044IDW1	Rolloff Drill Cuttings	1/06/11	1445	C	SOL	3	8oz							X									10
-2	"	"	1/06/11	1445	C	SOL	1	4oz								X								10

Special Instructions:

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

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Rachel Daly	1/06/11	1607		1/6/11	1610
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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